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TRIANGULATION IN MARYLAND

By

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Mathematician

Special Publication No. 114

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TRIANGULATION IN MARYLAND

By HUGH C. MITCHELL, *Mathematician, United States Coast and Geodetic Survey*

GENERAL STATEMENT

This report covers all the triangulation executed in the State of Maryland by the United States Coast and Geodetic Survey up to the summer of 1924, with the exception of a few points determined during the year 1865 in Frederick and Montgomery Counties. It also includes the triangulation executed by the United States Coast and Geodetic Survey in cooperation with the Maryland Shell Fish Commission and, in addition, the following triangulation: Vicinity of Baltimore Harbor and in the Potomac River, by the United States Engineers; along the water boundary in Pocomoke Sound between Virginia and Maryland by a Virginia state official; and a few stations in the vicinity of Washington determined by the Washington Suburban Sanitary Commission.

The engineer who wishes to make use of the data in this publication should consult the explanation of tables on page 16, especially the paragraph on "How to find the data desired."

HISTORICAL OUTLINE

The execution of the triangulation of Maryland extends over almost as long a period of time as does the history of the United States Coast and Geodetic Survey. Quite naturally the first needs for surveys in this country were in the vicinity of its principal ports and bays. Chesapeake Bay, with its many harbors and fertile shores and its proximity to the Capital City of Washington, was therefore included in the early program of the survey's first superintendent, F. R. Hassler. Some work had previously been done in the vicinity of New York City during the years 1817–18, but operations were discontinued because of the repealing by Congress of the act of 1807 under which the Coast Survey had been organized. Under legislative act of 1832 the work was resumed. Two stations in Connecticut were occupied for measurement of horizontal angles in 1833; a primary base line was measured at Fire Island on the southern side of Long Island in 1834; a second base line was measured on Kent Island in Chesapeake Bay, opposite Annapolis, in 1844; and a few months later a third base was measured in Bristol County, Mass. During this time many of the various triangulation stations connecting these base lines were established and occupied.

While some triangulation had been executed during the years 1842–43 in the vicinity of the Patapsco River by Assistant James Ferguson, the first first-order direction measures in the State were made at station Finlay in Baltimore County during August and September, 1844, by Assistant Ferguson, using a direction theodolite

with a 60-centimeter (24-inch) circle. The connection between the Fire Island and Kent Island base lines was not completed until 1848. The final computation of the trigonometric connection between these two base lines is summarized in the Coast and Geodetic Survey report for 1866. It shows that the length of the Kent Island base as brought through the triangulation from the Fire Island base was 0.100 meter longer than its length as obtained by direct measurement. This corresponds to a discrepancy of 1 part in 86,875.

Superintendent Hassler did not live to see this first rigid test of the work he had so ably planned and for which he had actually made many of the observations. Actively engaged in field work as he was during those first years of the survey, he was naturally exposed to severe weather conditions, and while in camp in October, 1843, his party was surprised by a violent storm of rain and snow, and suffered extraordinary discomfort. Hassler, then in his seventy-fourth year, was taken sick, and being hurried to Philadelphia for medical attention, he died there on the 20th of November, 1843.

His successor, A. D. Bache, following the program and example of Hassler, actively engaged in field work himself, occupying the stations connecting Washington with the Kent Island base net. This was in the years 1846 to 1850. The extension of the main scheme from the vicinity of Kent Island down the shores of the Chesapeake Bay to the mouth of the Potomac River was executed during the years 1846 to 1854.

PRINCIPAL TRIANGULATION

In 1871 the execution of an arc of first-order triangulation to extend from the Atlantic to the Pacific Ocean was provided for by Congress as a distinct project, this arc to extend along the thirty-ninth parallel of latitude and to connect Cape May, N. J., with Point Arena, Calif.[1] The stations required for this arc in the western part of Maryland had already been established. One on Sugarloaf Mountain, though observed on in 1869, was not occupied until 1879. At the eastern end of the transcontinental arc additional stations were required to connect the arc between Fire Island and Kent Island bases with the terminal on the Atlantic shore. This necessitated the establishment of four stations in Maryland in 1896 and 1897. One of these, *Still Pond*, in Kent County, required what is probably the tallest observing tower and target ever used in geodetic work in this country. (See fig. 1.) The main scheme of triangulation across Maryland from the head of Chesapeake Bay also serves as part of what is known as the Eastern Oblique Arc,[2] an arc of precise triangulation extending from the vicinity of Calais, Me., to New Orleans, La.

SUPPLEMENTARY TRIANGULATION

The main triangulation of the State of Maryland, shown in Figure 6, forms the frame work on which is based all other triangulation in the State. The supplementary triangulation which was to serve as control for the detailed local topographic and hydrographic surveys was in progress as soon as the principal triangulation, and the first chart in

[1] See U. S. Coast and Geodetic Survey Special Publication No. 4, The Transcontinental Triangulation and the American Arc of the Parallel, Washington, Government Printing Office, 1900.

[2] See U. S. Coast and Geodetic Survey Special Publication No. 7, The Eastern Oblique Arc of the United States and Osculating Spheroid, Washington, Government Printing Office, 1902.

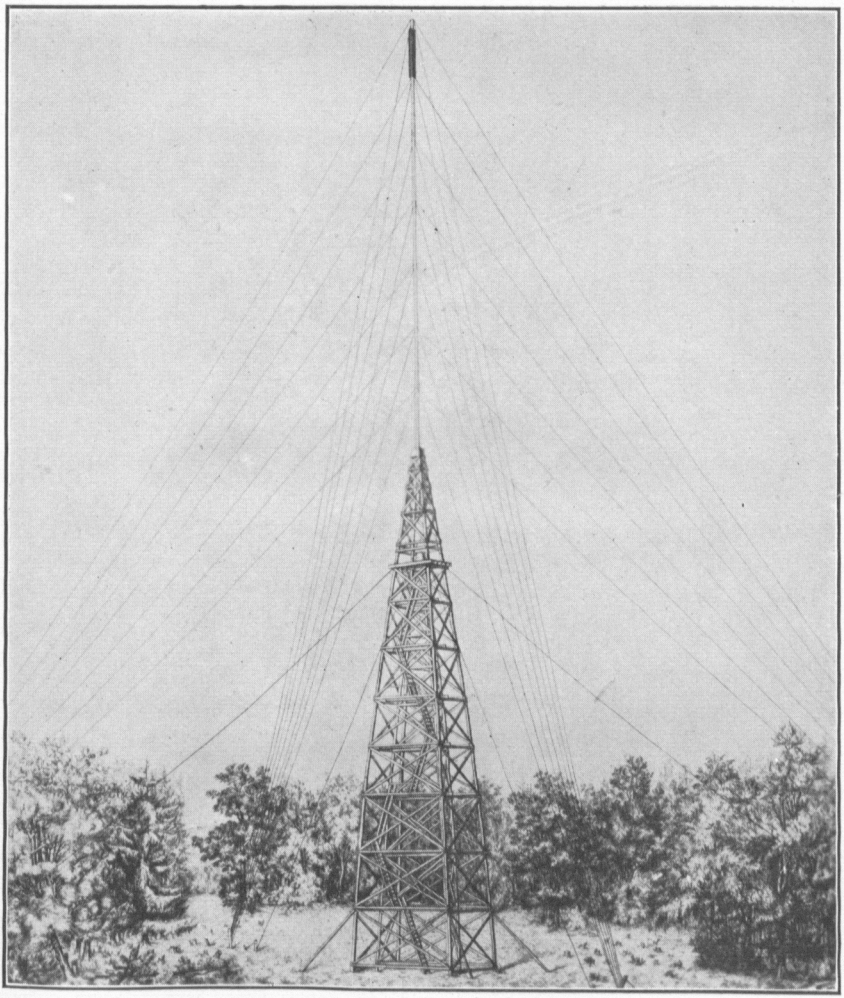


FIG. 1.—OBSERVING TOWER AT STILL POND, MD.

Elevation of instrument above ground, 120 feet; elevation of target, 275 feet

Maryland to be based on triangulation control, the chart of Annapolis Harbor, was in the hands of the engraver before the end of the year 1845.

The supplementary triangulation extends along the shores of the bays and harbors and up the rivers and creeks. It may be divided into three general groups which, however, do not represent distinct epochs. The first group covers the surveys of practically all waters of the State, and these surveys were made during the years 1842 to 1869. The second group includes resurveys of practically all the waters except of the bays along the ocean side of the State. In several localities there were a number of resurveys. The surveys of this group were made between the years 1876 and 1924. The third group comprises the control surveys made in cooperation with the Maryland Shell Fish Commission during the years 1906 to 1910. These cover the various waters of the State (except the Potomac River) which contain natural oyster bars or are suited for the culture of oysters, and those classed as crab bottoms. The results of these shellfish surveys are contained in a series of 17 pamphlets entitled Survey of Oyster Bars, each covering one county, published by the United States Coast and Geodetic Survey in 1917. Some of these are now out of print but several may still be obtained at a nominal cost from the Superintendent of Documents, Washington, D. C.

In the following table are shown the different surveys of the various geographic divisions of the State. The date of the survey and the name of the chief of party are given. It is a very general table, no effort having been made to show such details as the establishment of a single station for some particular project. The date of the establishment of each station will be found following the name of the station in the list of geographic positions (see p. 19), and where a station is described the name of the chief of party under whom it was established is given at the beginning of the description.

Chronological statement of triangulation in Maryland

Locality	First surveys	Later surveys	Maryland oyster survey
FIRST ORDER TRIANGULATION			
Head of Chesapeake Bay to Kent Island.	J. Ferguson, 1844–45. E. Blunt, 1847–48. A. D. Bache, 1848.		
Kent Island to Virginia State line.	A. D. Bache, 1846–1850. C. O. Boutelle, 1868–1879.		
Chesapeake Bay eastward to Delaware State line.	F. W. Perkins, 1896.		
SECOND AND THIRD ORDER TRIANGULATION			
Chesapeake Bay, head to Pooles Island.	J. Ferguson, 1843. T. W. Werner, 1844. F. H. Webber, 1844. J. E. Johnstone, 1844, 1845, 1846.	F. W. Perkins, 1898. J. Nelson, 1897. J. A. Daniels, 1918. E. D. Bromley, 1918.	
Chesapeake Bay, Pooles Island to Annapolis.	E. Blunt, 1850, 1851, 1852. J. Ferguson, 1842, 1843, 1845.	D. B. Wainwright, 1896. F. W. Perkins, 1898. J. B. Boutelle, 1902. E. D. Bromley, 1918.	

Chronological statement of triangulation in Maryland—Continued

Locality	First surveys	Later surveys	Maryland oyster survey
SECOND AND THIRD ORDER TRIANGULATION—continued			
Chesapeake Bay, Annapolis to Potomac River.	E. Blunt, 1846, 1847, 1848, 1849. F. H. Gerdes, 1844–45	D. B. Wainwright, 1897. F. W. Perkins, 1898. P. A. Welker, 1900. G. L. Flower, 1902. C. M. Sparrow, 1907. J. B. Boutelle, 1911–12.	C. C. Yates, 1908.
Elk River, Bohemia River, Back Creek.	J. E. Johnstone, 1844	J. B. Boutelle, 1898. W. I. Vinal, 1899.	
Sassafras River	J. E. Johnstone, 1844–45	H. L. Marindin, 1898	
Bush River	J. E. Hilgard, 1845		
Gunpowder River	J. E. Hilgard, 1845	F. W. Perkins, 1898	
Back River	J. E. Hilgard, 1845		
Patapsco River and Baltimore Harbor.	J. Ferguson, 1842–43. C. H. Boyd, 1863. F. P. Webber, 1866, 1868. F. H. Gerdes, 1869	J. W. Donn, 1876. O. H. Tittmann, 1886. D. B. Wainwright, 1896. H. G. Ogden, 1897. E. W. Eickelberg, 1915–16. U. S. Engineers.	C. C. Yates, 1906.
Chester River	J. E. Johnstone and J. E. Hilgard, 1846.	J. A. Flemer, 1896. S. Forney, 1909.	C. C. Yates, 1909.
Magothy River	F. H. Gerdes, 1844–45	J. B. Boutelle, 1898. I. Winston, 1908.	C. C. Yates, 1906.
Severn River	F. H. Gerdes, 1844–45	G. L. Flower, 1903. O. W. Ferguson, 1910.	C. C. Yates, 1906.
South River	J. E. Hilgard, 1846	J. A. Flemer, 1899	C. C. Yates, 1906.
West River	J. E. Hilgard, 1846		C. C. Yates, 1906.
Eastern Bay and tributaries.	J. E. Johnstone and J. E. Hilgard, 1845–46.	P. A. Welker, 1899. J. W. Donn, 1899–1900.	C. C. Yates, 1909.
Choptank River and tributaries.	J. E. Hassler, 1846	F. F. Weld, 1900	C. C. Yates, 1909–10.
Little Choptank River	J. E. Hassler, 1846	J. W. Donn, 1901. O. W. Ferguson, 1908.	C. C. Yates, 1910.
Tangier Sound	E. Blunt, 1848–49	F. W. Perkins, 1898. F. F. Weld, 1900–1. G. L. Flower, 1902.	C. C. Yates, 1907–8.
Nanticoke River and Wicomico River.	E. Blunt, 1848–49. R. D. Cutts, 1849		C. C. Yates, 1907.
Pocomoke Sound	E. Blunt, 1848–49. A. T. Mosman, 1871	F. F. Weld, 1901	
Potomac River	J. Farley, 1857, 1858, 1859, 1860, 1862. F. Rogers, 1862. C. Ferguson, 1862, 1867. F. P. Webber, 1862. C. Hosmer, 1866.	E. Smith, 1901. J. E. McGrath, 1901. P. M. Trueblood, 1919. U. S. Engineers.	
St. Marys River and Smith Creek.	J. Farley, 1857–58	O. W. Ferguson, 1908	C. C. Yates, 1908.
Bretons Bay, St. Clemons Bay, Wicomico River.	J. Farley, 1860. C. Ferguson, 1866–67		C. C. Yates, 1908–9.
North of Washington		C. V. Hodgson, 1917. Washington Suburban Sanitary Commission.	
Patuxent River	J. S. Williams, 1846. J. P. Roy, 1857. J. Farley, 1860.	O. W. Ferguson, 1907–8.	C. C. Yates, 1908.
Pocomoke Sound boundary line.		W. C. Hodgkins, 1898	
Chincoteague and Sinepuxent Bays.	J. Farley, 1848, 1849, 1852, 1853. C. Ferguson, 1859.		C. C. Yates, 1907–8.

COMPUTATIONS

The computations of the triangulation of Maryland cover an extended period of years. The first computations of the earliest work have naturally been superseded by later computations. The earlier work was more or less detached, often discontinuous, and the positions were based on the Bessel spheroid. Before the Clarke spheroid of 1866 had been adopted as a reference spheroid for geodetic work, resurveys of much of Maryland had been made. In order to coordinate old charts and maps with more recent surveys, many of the older positions were reduced from the Bessel spheroid to the Clarke spheroid. In some sections, notably in the Potomac River, this was not done until quite recently. The geographic positions of the first surveys of the Potomac River, given herein, were only recently computed on the Clarke spheroid.

The least squares adjustments of the precise arcs, the Transcontinental Triangulation and the Eastern Oblique Arc, were made under the direction of C. A. Schott, for many years Chief of the Computing Division (now Division of Geodesy) of the Coast and Geodetic Survey. In his report on the Transcontinental Triangulation special mention is made of the following who had been engaged on the computations for that work: M. H. Doolittle, E. H. Courtenay, D. L. Hazard, and J. F. Hayford.

Among the computers who were engaged on the triangulation of Maryland in more recent years, at various times up to three years ago when the writer took charge of the work, the following may be mentioned: O. S. Adams, L. L. Ansart, H. G. Avers, A. L. Baldwin, E. F. Church, W. H. Dennis, C. R. Duvall, R. Y. Ferner, H. W. Ficken, E. B. Latham, E. Martin, E. Panopio, L. Pike, H. S. Rappleye, G. E. Selby, W. F. Reynolds, F. W. Seth, O. P. Sutherland, and C. H. Swick. Prior to 1911 the writer had also been engaged on a number of the Maryland triangulation computations.

For a number of years G. E. Selby was in charge of the Maryland computations, and much of the data published in this report was prepared by him. Some three years ago the writer took charge of the completion of the computations and the preparation of this report for publication. He has been ably assisted in the computations by F. L. Bush and B. M. Hedrick, and in the preparation of descriptions of stations by Charles A. Bowman, to whom also full credit is due for the preparation of the sketches given at the end of the volume.

ARRANGEMENT OF SUBJECT MATTER

The data contained in this volume represent the final results in standard form of the triangulation of Maryland. These data take the form of the geographic position, latitude and longitude, of each point of the triangulation, the azimuth of each line, the logarithm of the length in meters of each line and, finally, the length of each line in meters. Descriptions of such stations as are not known definitely to be lost are also given when available. Where the triangulation of a given locality is presumably entirely destroyed by the loss of its marks, and a new triangulation has been established over the area, the older points are listed as lost points, and only their latitudes and longitudes are given. How to find the data desired in this publication is given in a separate statement on page 17. The

general arrangement of the geographic positions is as follows: First is given the main triangulation arranged by sections in geographic order beginning at the northeastern corner of the State. This is followed by the supplementary triangulation arranged in the same order. After this is given a table of geographic positions of lost points. Next come the descriptions of stations arranged in the same order as the geographic positions. The index map following page 572 shows this arrangement.

CLASSIFICATION OF TRIANGULATION

Triangulation is divided into different classes according to accuracy. The terms applied to these classes have recently been changed by agreement of representatives of the various Federal map-making bureaus. Four classes of triangulation are now prescribed and defined, viz, first, second, third, and fourth orders. The first three of these are, respectively, equal in accuracy to the classes primary, secondary, and tertiary as previously defined by the United States Coast and Geodetic Survey.

The ultimate criterion applied in classifying the different grades of triangulation is the actual error in the length of any line. This is indicated by the discrepancy between the measured length of a base line and its length as computed through the triangulation from the last preceding base. In first-order triangulation such discrepancies must not exceed one part in 25,000, in second-order triangulation one part in 10,000, and in third-order triangulation one part in 5,000. Before making the comparison between the computed and measured lengths the adjustment of the triangulation should be carried to the point where the side and angle equations have been satisfied. It is also necessary to take into consideration the maximum actual error in the measurement of the base lines.

To secure the accuracy indicated above, certain standards are adopted for the field work, the most important one of which relates to the closing error of the triangles or the discrepancy between the sum of the measured angles in a triangle and 180° plus the spherical excess of the triangle. In first-order triangulation the average closing error of the triangles must not be greatly in excess of $1''$, in second-order not more than $3''$, and in third-order about $5''$. The shape of the figures in the triangulation scheme, the frequency of bases, the size and type of instrument, and the number and kind of observations are all selected with due regard to the accuracy desired.

Under certain conditions the proportionate error in the length of a line as specified above may be found to be exceeded in any class of triangulation. Where two points are comparatively close together as compared with the size of the triangulation scheme the distance between those points may be in error in excess of that indicated by the class of triangulation of the scheme. The accuracy of the computed length of any line can be estimated by computing the ΣR_1 in accordance with the formula for the strength of figures as given in United States Coast and Geodetic Survey Special Publication No. 26. In any class of triangulation the subsidiary stations will be located with a less degree of accuracy than the main scheme stations.

NORTH AMERICAN DATUM

The North American datum serves as a basis for all the geodetic results contained in this publication. The explanation which follows has already been printed in about the same form in most of the previous reports on geodetic work.

Early in the year 1913 the Superintendent of the United States Coast and Geodetic Survey was notified by the director of the Comisión Geodésica Mexicana and by the chief astronomer of the Dominion of Canada Astronomical Observatory that the so-called United States standard datum had been adopted as the datum for the triangulation of those organizations. They also reported that the Clarke spheroid of 1866, now used in the United States, would be used by them.

Owing to the international character of the datum adopted by the three countries, the Superintendent of the United States Coast and Geodetic Survey changed its designation from the "United States standard datum" to the "North American datum."

EXPLANATION OF POSITIONS, LENGTHS, AND AZIMUTHS, AND OF THE NORTH AMERICAN DATUM

All of the positions and azimuths have been computed upon the Clarke spheroid of 1866, as expressed in meters, which has been in use in the Coast and Geodetic Survey for many years.

After a spheroid has been adopted and all the angles and lengths in a triangulation have been fully fixed, it is still necessary, before the computation of latitudes, longitudes, and azimuths can be made, to adopt a standard latitude and longitude for a specified station and a standard azimuth of a line from that station. For convenience, the adopted standard position (latitude and longitude) of a given station, together with the adopted standard azimuth of a line from that station, is called the geodetic datum.

The triangulation in the United States was commenced at various points and existed at first as a number of detached portions in each of which the geodetic datum was necessarily dependent only upon the astronomic stations connected with that particular portion. As examples of such detached portions of triangulation there may be mentioned the early triangulation in New England and along the Atlantic coast, a detached portion of the transcontinental triangulation centering on St. Louis and another portion of the same triangulation in the Rocky Mountain region, and three separate portions of triangulation in California, in the latitude of San Francisco, in the vicinity of Santa Barbara Channel, and in the vicinity of San Diego. With the lapse of time these separate pieces expanded until they touched or overlapped.

The transcontinental triangulation, the office computation of which was completed in 1899, joined all of the detached portions mentioned and made them one continuous triangulation. As soon as this took place the logical necessity existed of discarding the old geodetic data used in these various pieces and substituting one for the whole country, or at least for as much of the country as was covered by continuous triangulation. To do this was a very heavy piece of work, and involved much preliminary study to determine

the best datum to be adopted. On March 13, 1901, the superintendent adopted what was known from that time until 1913 as the United States standard datum, but is now known as the North American datum (see p. 7), and it was decided to reduce the positions to that datum as rapidly as possible. The datum adopted was that formerly in use in New England, and therefore its adoption did not affect the positions which had been used for geographic purposes in New England and along the Atlantic coast to North Carolina, nor those in the States of New York, Pennsylvania, New Jersey, and Delaware. The adopted datum does not agree, however, with that used in the Transcontinental Triangulation and in the Eastern Oblique Arc of the United States, publications which deal primarily with the purely scientific problem of the determination of the figure of the earth and which were prepared for publication before the adoption of the new datum.

As the adoption of such a standard datum was a matter of considerable importance, it is in order here to explain the desirability of this step more fully.

The main objects to be attained by the geodetic operations of the Coast and Geodetic Survey are, first, the control of the charts published by the survey; second, the furnishing of geographic positions (latitudes and longitudes), accurately determined elevations, distances, and azimuths, to officers connected with the Coast and Geodetic Survey and to other organizations; third, the determination of the figure of the earth. For the first and second objects it is not necessary that the reference spheroid should be accurately that which most closely fits the geoid within the area covered, nor that the adopted geodetic datum should be absolutely the best that can be derived from the astronomic observations at hand. It is simply desirable that the reference spheroid and the geodetic datum adopted shall be, if possible, such a close approximation to the truth that any correction which may hereafter be derived from the observations which are now, or may become, available shall not greatly exceed the probable errors of such corrections. It is, however, very desirable that one spheroid and one geodetic datum be used for the whole country. In fact, this is absolutely necessary if a geodetic survey is to perform fully the function of accurately coordinating all surveys within the area which it covers. This is the most important function of a geodetic survey. To perform this function, it is also highly desirable that when a certain spheroid and geodetic datum have been adopted for a country they be rigidly adhered to, without change for all time unless shown to be largely in error.

In striving to attain the third object, the determination of the figure of the earth, the conditions are decidedly different. This problem concerns itself primarily with astronomic observations of latitude, longitude, and azimuth and with the geodetic positions of the points at which the astronomic observations were made, but is not concerned with the geodetic positions of other points fixed by the triangulations. The geodetic positions (latitudes and longitudes) of comparatively few points are therefore concerned in this problem. However, in marked contrast to the statements made in preceding paragraphs, it is desirable in dealing with this problem that with each new important accession of data, a new spheroid fitting the

geoid with the greatest possible accuracy, and new values of the geodetic latitudes, longitudes, and azimuths of the highest degree of accuracy, should be derived.

The North American datum was adopted with reference to positions furnished for geographic purposes, but has no reference to the problem of the determination of the figure of the earth. It was adopted with reference to the engineer's problem of furnishing standard positions and does not affect the scientist's problem of the determination of the figure of the earth.

The principles which guided in the selection of the datum to be adopted were: First, that the adopted datum should not differ widely from the ideal datum for which the sum of the station errors in latitude, longitude, and azimuth should each be zero; second, it was desirable that the adopted datum should produce minimum changes in the publications of the United States Coast and Geodetic Survey, including its charts; and, third, it was desirable, other things being equal, to adopt that datum which allowed the maximum number of positions already in the office files to remain unchanged, and therefore necessitated a minimum amount of new computation. These considerations led to the adoption, as the standard, of that datum which had been in use for many years in the northeastern group of States and along the Atlantic coast as far south as North Carolina.

An examination of the station errors of the astronomic stations so far reduced, scattered widely over the United States from Maine to Louisiana and to California, indicated that this datum approaches closely the ideal for which the algebraic sum of the station errors of each class would be zero.

The North American datum, upon which the positions and azimuths given in this publication depend, may be defined in terms of the position of the station Meades Ranch, Kans., as follows:

	°	′	″
ϕ =	39	13	26.686
λ =	98	32	30.506
α to Waldo =	75	28	14.52

Points are then said to be upon the North American datum when they are connected with the station Meades Ranch by a continuous triangulation, through which the corresponding latitudes, longitudes, and azimuths have been computed on the Clarke spheroid of 1866, as expressed in meters, starting from the above data.

USE OF HORIZONTAL CONTROL DATA

The plan or map for any extensive engineering project, whether or not map construction is the primary object, should have all of its parts properly correlated and should be on the same datum as adjacent surveys. Federal and State mapping organizations have long been aware of the necessity for having all surveys based upon a common datum, but local engineers and surveyors in this country have too often in the past been content, and in many cases compelled, to use a local datum for their surveys. The future economic disadvantage of such a system is now becoming recognized, with the result that city and county surveys are being more generally placed upon a permanent basis by connecting them to stations on the North American datum.

One other factor must be taken into consideration by the engineer of to-day. As the States develop industrially they will undoubtedly follow the lead of one of the Eastern States, Massachusetts, which with splendid foresight has extended its triangulation control over the entire State for the purpose of defining property boundaries in terms of latitude and longitude. The advantage of such a system is well stated in the following extracts from the Report on the Maryland Oyster Survey:

> The difficulties of accurately locating and permanently defining the boundaries of a farmer's plantation on land, even with the aid of monuments, public roads, streams of water, and other points of reference are often great, judging from the disputes frequently arising in connection with boundaries. * * *
>
> There is only one point on the earth's surface at the intersection of any one parallel of latitude and any one meridian of longitude, and therefore there can be no dispute as to the meaning of such a geographic definition of the location of a point, even though all the original triangulation station marks used in its determination, together with the chart on which its position was originally plotted, have been totally destroyed.
>
> In the case of the destruction of an original triangulation station mark, or any other point defined by a geographic position, a competent geodetic engineer can reestablish its exact location by means of a new system of triangulation connecting with other distant triangulation marks which have not been destroyed.

In a section of the country covered by adequate geodetic control, the data are available to the engineer for any of the following operations, in addition to its possible future use as a basis for cadastral surveys:

(1) **Extensive mapping.**—The topographer needs as initial data for beginning a topographic survey the distance and direction between two points and the geographic position of one of them, in latitude and longitude, on the North American datum. His local triangulation or traverse, based on this control, will prevent the accumulation of excessive errors as he carries on his mapping operations. In the event that the available first-order triangulation in that region has lines of too great length to join to conveniently, he can measure a base and azimuth at some place visible from a first or second order triangulation station and connect his base to the station by triangulation, thus obtaining proper geographic positions for his local surveys.

(2) **Boundary lines.**—If it is desired to locate or to delimit accurately and permanently the boundaries of political subdivisions, such as States, counties, or cities, the methods indicated in the preceding paragraph may be followed. Whenever possible, a line of the adjusted triangulation or traverse should be used as a basis for local surveys rather than a point, since a line gives the three essentials of position, length, and direction.

(3) **Local intensive surveys.**—The necessity for such surveys arises most frequently in connection with extensive improvements over a considerable area or as a basis for city planning, where the needs of a city are being anticipated for a number of years. Here the requirements are somewhat different from those in the two preceding operations, for it is often necessary to extend first or second order control in considerable detail over the entire area affected, third order triangulation or traverse then being used to furnish additional points for the survey. Such a control survey should invariably be started from a line of adjusted triangulation or traverse on the North American datum.

While it may be noted in the preceding paragraphs that the azimuth and length of one line and the geographic position of one end of that line constitute the essential data for the complete utilization of old work as a basis for new work, there is always grave danger in depending upon this minimum of data. There may be failure to identify the true station mark, or the mark, though genuine, may have been tampered with or otherwise disturbed in position. This will, of course, introduce an error into the new work based on these stations. It is the present practice in this survey, unless unusual conditions render it unnecessary, to establish the integrity of the recovered points by using at least three old stations as a basis for new work, the third station serving as a check for the two stations on which the new work may actually depend.

In local surveys where the area is of limited extent it is usually desirable to use a system of plane coordinates, the origin being connected to some point of the first or second order triangulation or traverse scheme. Tables for computing plane coordinates from geographic positions are found in United States Coast and Geodetic Survey Special Publication No. 71. The United States Coast and Geodetic Survey will be glad to give advice on any problem arising out of the use of its control points or on any proposed extension of triangulation or traverse from them.

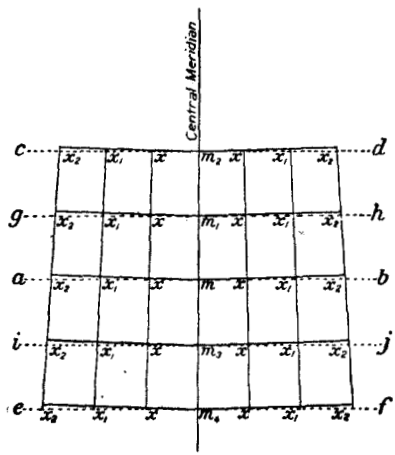
TABLE FOR POLYCONIC MAP PROJECTION

The engineer or surveyor who makes use of the data in this publication may find it desirable to construct a map covering the territory he is surveying. He may wish to show on this map the meridians and parallels so as to be able to plot the positions of the triangulation stations included in the area and show the details of his survey in the correct geographic positions. To enable him to do this with the least possible difficulty the following table, reprinted in an abbreviated form from United States Coast and Geodetic Survey Special Publication No. 5, has been inserted. This table may also be used to interpret in terms of degrees, minutes, and seconds of arc any distance measured along a meridian or parallel. The method of using the table is described below:

To make a projection for a large-scale map (1–20,000 and larger) first draw a straight line for a central meridian and a construction line *ab* perpendicular thereto, each to be as central to the sheet as the selected interval of latitude and longitude will permit. (See fig., p. 12.) On the central meridian lay off the distances, mm_2 and mm_4, using the length of 1′ along the meridian, for the latitude in question, as given in the table under "Arcs of the meridian" and multiplying this length by the number of minutes for the interval between the central parallel and the extreme parallels. Through m_2 and m_4 draw straight lines, *cd* and *ef*, parallel to the line *ab*. On the lines *ef*, *ab*, and *cd* lay off the distances mx_2, m_2x_2, and m_4x_2 on both sides of the central meridian taking the values from the table under "Arcs of the parallel," corresponding to the latitude of m, m_2, and m_4, respectively. The value of 1′ as taken from the table must be multiplied by the number of minutes out from the central meridian. Draw

straight lines through the points thus determined for the extreme meridians—that is, through the x_2 points.

At the two points designated x_2 on the line ab lay off along the meridians the value of Y as given in the table under "Y-Coordinate of Curvature," using as argument the interval in minutes between the central meridian and the extreme meridian. Draw straight lines from these points to the point m for the middle parallel, and from the points of intersection with the extreme meridians lay off distances along these meridians, above and below, equal to the distances mm_2 and mm_4 to locate points in the extreme parallels.



NOTE.—In this figure the angle made at the central meridian by the parallels is grossly exaggerated. In an actual projection the parallels appear practically as straight lines.

Subdivide each of the three meridians and three parallels already determined into parts corresponding with the projection interval and join the corresponding points of subdivision by straight lines to complete the projection.

The method outlined above may be used for all large-scale maps regardless of the number of meridians and parallels shown. For small-scale maps the method is somewhat more complicated and it becomes necessary to make use of Special Publication No. 5, which may be obtained for 20 cents from the Superintendent of Documents, Washington, D. C.

Polyconic map projection table

Latitude	Arc of the parallel		Arc of the meridian		Interval of longitude from central meridian	Y-coordinate of curvature, lat. 37°
	1″	1′	1″	1′		
° ′	*Meters*	*Meters*	*Meters*	*Meters*	° ′	*Meters*
37 00	24.726	1,483.6	30.826	1,849.58		
1	.721	3.3	6	.59	0 1	0.1
2	.715	2.9	7	.59	2	0.5
3	.710	2.6	7	.60	3	1.2
4	.704	2.3	7	.61	4	2.1
37 05	24.699	1,481.9	30.827	1,849.61	0 5	3.3
6	.694	1.6	7	.62	6	4.7
7	.688	1.3	7	.62	7	6.4
8	.683	1.0	7	.63	8	8.3
9	.677	0.6	7	.63	9	10.5
37 10	24.672	1,480.3	30.827	1,849.64	0 10	13.0
11	.667	80.0	7	.64	15	29.2
12	.661	79.7	7	.65	20	51.9
13	.656	9.3	8	.65	25	81.2
14	.650	9.0	8	.66	30	116.9
37 15	24.645	1,478.7	30.828	1,849.66	0 35	159.1
16	.639	8.4	8	.67	40	207.8
17	.634	8.1	8	.67	45	263.0
18	.629	7.7	8	.68	50	324.6
19	.623	7.4	8	.68	55	392.8
37 20	24.618	1,477.1	30.828	1,849.69	1 00	467.5
21	.612	6.8	8	.69	05	548.6
22	.607	6.4	8	.70	10	636.3
23	.601	6.1	8	.71	15	730.4
24	.596	5.8	9	.71	20	831.1
37 25	24.590	1,475.4	30.829	1,849.72	1 25	938.2
26	.585	5.1	9	.72	30	1,051.8
27	.580	4.8	9	.73	35	1,171.9
28	.574	4.4	9	.73	40	1,298.5
29	.569	4.1	9	.74	45	1,431.6
37 30	24.563	1,473.8	30.829	1,849.74	1 50	1,571.2
31	.558	3.5	9	.75	55	1,717.3
32	.552	3.1	9	.75	2 00	1,870
33	.547	2.8	9	.76	3 00	4,207
34	.541	2.5	9	.76	4 00	7,479
37 35	24.536	1,472.2	30.829	1,849.77	5 00	11,685
36	.530	1.8	30	.77	6 00	16,824
37	.525	1.5	0	.78	7 00	22,896
38	.519	1.2	0	.78	8 00	29,901
39	.514	0.8	0	.79	9 00	37,838
37 40	24.509	1,470.5	30.830	1,849.80	10 00	46,706
41	.503	70.2	0	.80	11 00	56,503
42	.498	69.9	0	.81	12 00	67,229
43	.492	9.5	0	.81	13 00	78,882
44	.487	9.2	0	.82	14 00	91,462
37 45	24.481	1,468.9	30.830	1,849.82	15 00	104,967
46	.476	8.5	0	.83	16 00	119,395
47	.470	8.2	1	.83	17 00	134,745
48	.465	7.9	1	.84	18 00	151,015
49	.459	7.5	1	.84	19 00	168,203
37 50	24.454	1,467.2	30.831	1,849.85	20 00	186,307
51	.448	6.9	1	.85	21 00	205,326
52	.443	6.6	1	.86	22 00	225,258
53	.437	6.2	1	.86	23 00	246,099
54	.432	5.9	1	.87	24 00	267,849
37 55	24.426	1,465.6	30.831	1,849.88	25 00	290,503
56	.421	5.2	1	.88	26 00	314,061
57	.415	4.9	1	.89	27 00	338,519
58	.410	4.6	2	.89	28 00	363,874
59	.404	4.2	2	.90	29 00	390,125
37 60	24.399	1,463.9	30.832	1,849.90	30 00	417,267

Polyconic map projection table—Continued

Latitude	Arc of the parallel		Arc of the meridian		Interval of longitude from central meridian	Y-coordinate of curvature Lat. 38°
	1″	1′	1″	1′		
° ′	*Meters*	*Meters*	*Meters*	*Meters*	° ′	*Meters*
38 00	24.399	1,463.9	30.832	1,849.90		
1	.393	3.6	2	.91	0 1	0.1
2	.387	3.2	2	.91	2	0.5
3	.382	2.9	2	.92	3	1.2
4	.376	2.6	2	.92	4	2.1
38 05	24.371	1,462.3	30.832	1,849.93	0 5	3.3
6	.365	1.9	2	.93	6	4.7
7	.360	1.6	2	.94	7	6.4
8	.354	1.3	2	.94	8	8.4
9	.349	0.9	2	.95	9	10.6
38 10	24.343	1,460.6	30.833	1,849.95	0 10	13.1
11	.338	60.3	3	.96	15	29.5
12	.332	59.9	3	.97	20	52.4
13	.327	9.6	3	.97	25	81.9
14	.321	9.3	3	.98	30	118.0
38 15	24.315	1,458.9	30.833	1,849.98	0 35	160.6
16	.310	8.6	3	.99	40	209.8
17	.304	8.3	3	49.99	45	265.5
18	.299	7.9	3	50.00	50	327.7
19	.293	7.6	3	.00	55	396.5
38 20	24.288	1,457.3	30.833	1,850.01	1 00	471.9
21	.282	6.9	4	.01	05	553.8
22	.276	6.6	4	.02	10	642.3
23	.271	6.3	4	.02	15	737.3
24	.265	5.9	4	.03	20	838.9
38 25	24.260	1,455.6	30.834	1,850.03	1 25	947.1
26	.254	5.3	4	.04	30	1,061.8
27	.249	4.9	4	.05	35	1,183.0
28	.243	4.6	4	.05	40	1,310.8
29	.237	4.2	4	.06	45	1,445.2
38 30	24.232	1,453.9	30.834	1,850.06	1 50	1,586.1
31	.226	3.6	4	.07	55	1,733.5
32	.221	3.2	5	.07	2 00	1,888
33	.215	2.9	5	.08	3 00	4,247
34	.210	2.6	5	.08	4 00	7,549
38 35	24.204	1,452.2	30.835	1,850.09	5 00	11,795
36	.198	1.9	5	.09	6 00	16,983
37	.193	1.6	5	.10	7 00	23,112
38	.187	1.2	5	.10	8 00	30,183
39	.182	0.9	5	.11	9 00	38,195
38 40	24.176	1,450.6	30.835	1,850.11	10 00	47,145
41	.170	0.2	5	.12	11 00	57,034
42	.165	49.9	5	.13	12 00	67,860
43	.159	9.6	6	.13	13 00	79,622
44	.154	9.2	6	.14	14 00	92,319
38 45	24.148	1,448.9	30.836	1,850.14	15 00	105,949
46	.142	8.5	6	.15	16 00	120,511
47	.137	8.2	6	.15	17 00	136,002
48	.131	7.9	6	.16	18 00	152,421
49	.125	7.5	6	.16	19 00	169,767
38 50	24.120	1,447.2	30.836	1,850.17	20 00	188,037
51	.114	6.9	6	.17	21 00	207,229
52	.109	6.5	6	.18	22 00	227,341
53	.103	6.2	6	.18	23 00	248,370
54	.097	5.8	6	.19	24 00	270,315
38 55	24.092	1,445.5	30.837	1,850.20	25 00	293,172
56	.086	5.2	7	.20	26 00	316,939
57	.080	4.8	7	.21	27 00	341,613
58	.075	4.5	7	.21	28 00	367,192
59	.069	4.1	7	.22	29 00	393,672
38 60	24.063	1,443.8	30.837	1,850.22	30 00	421,050

Polyconic map projection table—Continued

Latitude	Arc of the parallel		Arc of the meridian		Interval of longitude from central meridian	Y-coordinate of curvature	
	1″	1′	1″	1′		Lat. 39°	Lat. 40°
° ′	*Meters*	*Meters*	*Meters*	*Meters*	° ′	*Meters*	*Meters*
39 00	24.093	1,443.8	30.837	1,850.22			
1	.058	3.5	7	.23	0 1	0.1	0.1
2	.052	3.1	7	.23	2	0.5	0.5
3	.047	2.8	7	.24	3	1.2	1.2
4	.041	2.5	7	.24	4	2.1	2.1
39 05	24.035	1,442.1	30.837	1,850.25	0 5	3.3	3.3
6	.030	1.8	8	.25	6	4.8	4.8
7	.024	1.4	8	.26	7	6.5	6.5
8	.018	1.1	8	.26	8	8.5	8.5
9	.013	0.8	8	.27	9	10.7	10.8
39 10	24.007	1,440.4	30.838	1,850.28	0 10	13.2	13.3
11	.001	40.1	8	.28	15	29.7	29.9
12	3.996	39.7	8	.29	20	52.9	53.2
13	.990	9.4	8	.29	25	82.6	83.2
14	.984	9.1	8	.30	30	118.9	119.8
39 15	23.979	1,438.7	30.838	1,850.30	0 35	161.9	163.0
16	.973	8.4	8	.31	40	211.5	212.9
17	.967	8.0	9	.31	45	267.6	269.4
18	.962	7.7	9	.32	50	330.4	332.6
19	.956	7.4	9	.32	55	399.8	402.5
39 20	23.950	1,437.0	30.839	1,850.33	1 00	475.8	479.0
21	.944	6.7	9	.33	05	558.4	562.2
22	.939	6.3	9	.34	10	647.6	652.0
23	.933	6.0	9	.35	15	743.4	748.5
24	.927	5.6	9	.35	20	845.8	851.6
39 25	23.922	1,435.3	30.839	1,850.36	1 25	954.8	961.4
26	.916	5.0	9	.36	30	1,070.4	1,077.8
27	.910	4.6	9	.37	35	1,192.6	1,200.8
28	.905	4.3	40	.37	40	1,321.4	1,330.5
29	.899	3.9	0	.38	45	1,456.8	1,466.9
39 30	23.893	1,433.6	30.840	1,850.38	1 50	1,598.8	1,609.9
31	.888	3.3	0	.39	55	1,747.5	1,759.6
32	.882	2.9	0	.39	2 00	1,903	1,916
33	.876	2.6	0	.40	3 00	4,281	4,311
34	.870	2.2	0	.40	4 00	7,611	7,663
39 35	23.865	1,431.9	30.840	1,850.41	5 00	11,891	11,972
36	.859	1.6	0	.42	6 00	17,121	17,238
37	.853	1.2	0	.42	7 00	23,300	23,460
38	.847	0.9	0	.43	8 00	30,428	30,637
39	.842	0.5	1	.43	9 00	38,504	38,768
39 40	23.836	1,430.2	30.841	1,850.44	10 00	47,527	47,852
41	.830	29.8	1	.44	11 00	57,496	57,888
42	.825	9.5	1	.45	12 00	68,409	68,875
43	.819	9.1	1	.45	13 00	80,266	80,811
44	.813	8.8	1	.46	14 00	93,064	93,695
39 45	23.807	1,428.4	30.841	1,850.46	15 00	106,802	107,525
46	.802	8.1	1	.47	16 00	121,479	122,300
47	.796	7.8	1	.47	17 00	137,093	138,017
48	.790	7.4	1	.48	18 00	153,642	154,675
49	.784	7.1	1	.49	19 00	171,124	172,272
39 50	23.779	1,426.7	30.842	1,850.49	20 00	189,537	190,805
51	.773	6.4	2	.50	21 00	208,878	210,272
52	.767	6.0	2	.50	22 00	229,146	230,671
53	.761	5.7	2	.51	23 00	250,337	251,998
54	.756	5.3	2	.51	24 00	272,450	274,252
39 55	23.750	1,425.0	30.842	1,850.52	25 00	295,481	297,430
56	.744	4.7	2	.52	26 00	319,429	321,528
57	.738	4.3	2	.53	27 00	344,289	346,543
58	.733	4.0	2	.53	28 00	370,059	372,473
59	.727	3.6	2	.54	29 00	396,736	399,314
39 60	23.721	1,423.3	30.842	1,850.54	30 00	424,317	427,063

EXPLANATION OF TABLES OF GEOGRAPHIC POSITIONS

ARRANGEMENT OF TABULATED DATA

In the tables of positions the latitude and longitude of each point are given on the North American datum (see p. 7); also the length and azimuth of each line observed over, whether in one way or both ways, to other points of the triangulation or traverse. No LENGTHS OR AZIMUTHS ARE REPEATED, AND FOR A GIVEN LINE THE LENGTH AND AZIMUTH WILL BE FOUND OPPOSITE THE POSITION OF ONE OR THE OTHER OF THE TWO STATIONS INVOLVED.

The distances between stations are given in meters. To facilitate further the use of the tables, a column is given of the logarithms of the lengths in meters. It must be remembered that it is the logarithm of the length in meters which is derived first in the computations, the length in meters then being derived from the corresponding logarithm. Where further work of considerable extent is contemplated, an accumulation of error can be avoided by using the logarithm.

EXPLANATION OF LENGTHS

The lengths, as already explained on page 2, depend upon precise base lines measured at Fire Island, N. Y., Kent Island, Md., Atlanta, Ga., and St. Albans, W. Va. From these the lengths are carried through the lines of the Eastern Oblique Arc and of the Transcontinental Triangulation to the more detailed triangulation of the bays and rivers. The lengths as given in the tables are all reduced to sea level. If the actual length of a line reduced only to the horizontal is desired—that is, its length in its actual elevation on the surface of the earth—it may be obtained by adding to the sea-level length as given in meters the following correction—

$$\text{Cor.} = \frac{s h_m}{6{,}370{,}000}$$

in which s is the length of the line in meters and h_m is the mean elevation of the two ends of the line in meters. This correction, however, may be considered negligible for any line of the triangulation here published, as it is not as much as 1/20000 of the lengths of even the precise lines northwest of Washington which are the highest in the State.

AZIMUTH AND BACK AZIMUTH

Because of the convergence of the meridians the azimuth and back azimuth of a line do not differ by exactly 180°, the amount of the divergence varying with the latitude and the difference of longitude of the two points. To illustrate from the tables, page 19, the azimuth from Linstid to Pooles Island is 221° 18′ 51.64″, while the back azimuth, or the azimuth from Pooles Island to Linstid is 41° 27′ 16.77″.

The azimuths of the triangulation lines offer a very convenient and accurate means of testing the error of the magnetic needle on a sur-

veyor's transit, and even the azimuth over such short distances as those between a station mark and its reference mark may be used for this purpose with fair accuracy, provided the distance is greater than 100 feet.

ACCURACY OF DATA INDICATED IN TABLES

The rule followed in recent publications of this office has been to give latitudes and longitudes to thousandths of seconds for all points the positions of which are fixed by fully adjusted triangulation. Points, the positions of which are given to hundredths of seconds only, are marked by footnotes as being without check (observed from only two stations).

In the columns giving azimuths, distances, and logarithms of distances, the accuracy is indicated to a certain extent by the number of decimal places given, it being understood that in each case two doubtful figures are given. In some cases there is very little doubt of the correctness of the second figure from the right, while in a few cases some doubt may be cast on the third figure from the right.

HOW TO FIND THE DATA DESIRED

Following the index at the back of this publication are 26 maps. The first is an index map showing all areas in the United States covered by published triangulation and traverse rigidly computed on the North American datum. Following this are two index maps, one showing the boundaries of charts of this region published by the Coast and Geodetic Survey, the other showing the boundaries of the areas represented on figures 6 to 28. The rest are detailed maps showing the scheme of triangulation plotted by latitudes and longitudes.

Having found the names of the points desired, the tables may be conveniently consulted by using the index at the end of this publication. In the appropriately headed columns opposite the name of each station are given the pages on which may be found its geographic position, description, and the number of the detailed sketch showing the scheme of observed lines from that station.

RELATED PUBLICATIONS

Engineers and others using the data given in this report for the control of maps and surveys will find it of help to have Special Publications Nos. 5, 8, and 71 of the United States Coast and Geodetic Survey. They may be obtained at a nominal cost from the Superintendent of Documents, Government Printing Office, Washington, D. C.

Special Publication No. 5 is entitled "Tables for a polyconic projection of maps based on Clarke's reference spheroid of 1866." A brief explanation of these tables and condensed tables for the latitude of Maryland are given on pages 11 to 15.

Special Publication No. 8 is entitled "Formulæ and tables for the computation of geodetic positions." As the title of this publication implies, the data contained in it will enable one to compute the spherical coordinates for triangulation where the distances and angles are known.

Special Publication No. 71 is entitled "Relation between plane rectangular coordinates and geographic positions." This book contains tables which will facilitate the use by engineers of plane coordinates for local surveys.

The principal lists of geographic positions published on the North American datum throughout the United States, together with descriptions of stations, are contained in the following publications of the United States Coast and Geodetic Survey and of other organizations:

Appendix 8 of the Report for 1888, positions in Connecticut.
Appendix 8 of the Report for 1893, positions in Pennsylvania, Delaware, and Maryland.
Appendix 6 of the Report for 1901, positions and descriptions in Kansas and Nebraska.
Appendix 9 of the Report for 1904, positions and descriptions in California.
Appendix 3 of the Report for 1907, positions and descriptions in California.
Appendix 5 of the Report for 1910, positions and descriptions in California.
Appendix 4 of the Report for 1911, positions and descriptions in Nebraska, Minnesota, North Dakota, and South Dakota.
Appendix 6 of the Report for 1911, positions and descriptions in Florida.
Special Publication No. 11, positions and descriptions in Texas, New Mexico, Arizona, and California.
Special Publication No. 13, positions and descriptions in California, Oregon, and Washington.
Special Publication No. 16, positions and descriptions in Florida.
Special Publication No. 17, positions and descriptions in Texas.
Special Publication No. 19, positions and descriptions in Colorado, Utah, Nevada, Wyoming, Montana, South Dakota, and North Dakota.
Special Publication No. 24, positions and descriptions in Alabama and Mississippi.
Special Publication No. 30, positions and descriptions in West Virginia, Ohio, Kentucky, Indiana, Illinois, and Missouri.
Special Publication No. 31, positions and descriptions in Oregon, Washington, and California.
Special Publication No. 43, positions in Georgia.
Special Publication No. 45, descriptions in Georgia.
Special Publication No. 46, positions and descriptions in Maine.
Special Publication No. 54, positions and descriptions in Texas.
Special Publication No. 62, positions and descriptions in Rhode Island.
Special Publication No. 70, positions and descriptions in Kansas.
Special Publication No. 74, positions and descriptions in Idaho, Oregon, and Washington.
Special Publication No. 76, positions and descriptions in Massachusetts.
Special Publication No. 78, positions and descriptions in Texas.
Special Publication No. 79, positions and descriptions in Indiana.
Special Publication No. 84, positions and descriptions in California and Oregon.
Special Publication No. 86, positions and descriptions in Illinois and Wisconsin.
Special Publication No. 88, positions and descriptions in Oklahoma and Texas.
Special Publication No. 101, positions and descriptions in North Carolina.
Special Publication No. 114, positions and descriptions in Maryland.
Report on triangulation of Greater New York.
Report on a plan of sewerage for the city of Cincinnati.
Appendix EEE, pages 2905–3031, Annual Report of the Chief of Engineers, U. S. Army, 1902, positions of points on and near the Great Lakes.
Professional Papers No. 24, Corps of Engineers, U. S. Army, descriptions of points on and near the Great Lakes.
Publications of the Massachusetts Commission on Waterways and Public Lands.
Various bulletins of the United States Geological Survey.

GEOGRAPHIC POSITIONS

First-order triangulation, Eastern Oblique Arc and Thirty-ninth Parallel

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Buck 2 (Del.), 1845	39 32 26.784	826.0					
	75 43 55.179	1,317.5					
Meetinghouse Hill (Del.), 1845	39 42 46.280	1,427.2	5 21 34.01	185 20 46.14	Buck 2	4.2830564	19,189.18
	75 42 40.121	955.6					
Principio, 1845	39 35 36.692	1,131.5	242 09 26.19	62 20 40.25	Meetinghouse Hill	4.4541596	28,455.06
	76 00 16.407	391.4	283 57 08.10	104 07 33.13	Buck 2	4.3827960	24,143.27
Turkey Point, 1845	39 26 58.297	1,797.9	181 34 24.70	1 34 36.41	Principio	4.2039371	15,993.26
	76 00 34.812	832.3	246 55 45.23	67 06 21.01	Buck 2	4.4140630	25,945.56
Osbornes Ruin, 1844	39 27 54.943	1,694.4	239 00 59.60	59 11 33.81	Principio	4.4430009	27,733.26
	76 16 52.844	1,263.2	274 11 10.88	94 21 32.43	Turkey Point	4.3701018	23,447.78
Pooles Island, 1844	39 17 07.822	241.2	175 39 08.49	355 38 28.22	Osbornes Ruin	4.3013415	20,014.35
	76 15 49.375	1,183.3	230 10 03.44	50 19 43.54	Turkey Point	4.4544856	28,476.43
Finlay, 1844	39 24 28.002	863.6	252 58 27.21	73 07 43.46	Osbornes Ruin	4.3402947	21,892.47
	76 31 28.515	682.2	301 02 01.64	121 11 57.07	Pooles Island	4.4194231	26,267.76
Linstid, 1848	39 05 21.737	670.3	174 35 53.40	354 34 25.00	Finlay	4.5503184	35,507.36
	76 29 08.800	211.5	221 18 51.64	41 27 16.77	Pooles Island	4.4627140	29,021.11
Swan Point, 1848	39 08 30.423	938.1	71 56 57.08	251 49 10.02	Linstid	4.2721497	18,713.27
	76 16 48.480	1,164.2	185 04 24.24	5 05 01.61	Pooles Island	4.2046223	16,018.52
Kent Island north base, 1844	38 58 26.577	819.6	135 37 59.11	315 32 30.72	Linstid	4.2533973	17,922.45
	76 20 27.343	658.2	195 45 40.24	15 47 58.15	Swan Point	4.2866876	19,350.29
Taylor, 1847	38 59 48.390	1,492.2	170 19 42.60	350 18 56.68	Linstid	4.0181974	10,427.91
	76 27 55.906	1,345.3	283 06 49.20	103 11 31.40	Kent Island north base	4.0448164	11,087.06
Kent Island south base, 1844	38 53 53.935	1,663.2	141 47 25.91	321 43 41.06	Taylor	4.1435288	13,916.46
	76 21 58.208	1,402.6	194 34 57.61	14 35 54.72	Kent Island north base	3.9388970	8,687.545

First-order triangulation, Eastern Oblique Arc and Thirty-ninth Parallel—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Marriott, 1844	38 52 27.562	849.9	204 11 23.54	24 16 04.33	Linstid	4.4179562	26,179.19
	76 36 35.149	847.3	222 34 07.37	42 39 33.69	Taylor	4.2664989	18,471.36
			244 30 51.31	64 40 59.38	Kent Island north base	4.4117658	25,808.68
			262 44 28.89	82 53 39.41	Kent Island south base	4.3284441	21,303.16
Webb, 1850	39 05 26.556	818.9	200 12 19.54	20 18 02.24	Finlay	4.5742634	37,520.05
	76 40 30.166	725.0	270 27 37.26	90 34 46.89	Linstid	4.2142059	16,375.93
			346 43 43.35	166 46 11.19	Marriott	4.3923247	24,678.84
Hill, 1846	38 53 54.908	1,693.2	219 46 50.05	39 54 35.44	Webb	4.4437211	27,779.29
	76 52 49.762	1,199.0	276 27 22.13	96 37 33.97	Marriott	4.3737199	23,643.94
Soper, 1850	39 05 11.843	365.2	268 49 17.06	88 59 41.63	Webb	4.3767757	23,810.90
	76 57 00.726	17.4	308 30 54.05	128 43 45.00	Marriott	4.5770121	37,758.27
			343 50 28.30	163 53 06.21	Hill	4.3370761	21,730.82
Stabler, 1869	39 07 17.708	546.1	277 11 04.31	97 22 48.44	Webb	4.4320174	27,040.67
	76 59 06.493	156.0	322 05 07.79	142 06 27.12	Soper	3.6918824	4,919.06
			339 51 26.37	159 55 23.51	Hill	4.4209983	26,363.21
Peach Grove, (Va.), 1869	38 55 12.737	392.7	223 22 15.07	43 31 29.30	Stabler	4.4884568	30,793.34
	77 13 46.773	1,126.7	274 25 15.99	94 38 25.51	Hill	4.4826098	30,381.54
Sugar Loaf, 1869	39 15 44.545	1,373.7	293 45 40.26	114 01 09.43	Stabler	4.5865136	38,593.45
	77 23 36.882	884.2	312 07 43.92	132 27 08.38	Hill	4.7782814	60,017.99
			339 28 31.58	159 34 43.68	Peach Grove	4.6079577	40,546.91
Maryland Heights, 1869	39 20 27.689	853.9	287 17 42.47	107 29 59.14	Sugar Loaf	4.4654327	29,203.35
	77 42 59.915	1,434.7	290 51 35.73	111 19 21.26	Stabler	4.8305730	67,697.56
			317 48 58.02	138 07 24.42	Peach Grove	4.7986110	62,894.26
Bull Run (Va.), 1871	38 52 53.579	1,652.1	178 43 39.25	358 43 09.41	Maryland Heights	4.7077532	51,021.49
	77 42 12.604	303.7	246 35 35.66	67 02 43.22	Stabler	4.8205535	67,694.52
Mount Marshall, (Va.), 1869	38 46 33.809	1,042.5	213 42 32.44	34 00 55.39	Maryland Heights	4.8781223	75,530.49
	78 12 10.284	248.3	254 43 50.11	75 02 37.25	Bull Run	4.6524004	44,915.93
Capitol, head of Liberty (D. C.), 1869	38 53 23.246	716.7	100 05 12.52	279 56 54.34	Peach Grove	4.2880152	19,409.54
	77 00 33.533	808.4	184 38 43.29	4 39 38.07	Stabler	4.4119130	25,817.43
			264 58 01.64	85 02 52.84	Hill	4.0499585	11,219.11
Seminary, new spire, cross (Va.), 1869	38 49 13.536	417.4	97 28 34.49	277 05 33.63	Bull Run	4.7284587	53,512.93
	77 05 31.338	756.0	152 04 36.42	331 53 12.64	Sugar Loaf	4.7448855	55,575.77
			195 27 18.03	15 31 20.07	Stabler	4.5402338	34,692.36
			244 38 32.37	64 46 30.20	Hill	4.3076892	20,309.03
Causten (D. C.), 1851	38 55 35.294	1,088.4	87 06 47.55	267 00 53.85	Peach Grove	4.1328759	13,579.25
	77 04 23.810	573.6	210 54 36.74	30 59 15.62	Soper	4.3165130	20,730.65
			280 25 38.20	100 32 54.16	Hill	4.2306003	17,005.93
Clough, 1896	39 12 06.491	200.2	64 00 12.74	243 49 02.64	Linstid	4.4530441	28,382.07
	76 11 27.334	655.9	128 34 27.59	308 21 46.71	Finlay	4.5653608	36,758.75
			165 06 14.68	345 02 48.36	Osbornes Ruin	4.4810163	30,270.27
Still Pond, 1896	39 18 54.774	1,689.2	45 13 22.89	225 07 48.51	Clough	4.2519106	17,861.20
	76 02 38.939	932.8	104 05 25.17	283 47 08.25	Finlay	4.6300529	42,663.15
			129 15 43.91	309 06 42.02	Osbornes Ruin	4.4210152	26,364.24
			191 15 23.61	11 16 42.36	Turkey Point	4.1819708	15,204.45
Hope, 1896	39 02 33.328	1,027.8	97 02 06.67	276 43 18.15	Linstid	4.6371123	43,362.30
	75 59 18.109	435.5	135 19 13.26	315 11 33.14	Clough	4.3959393	24,885.10
			170 58 04.95	350 55 58.08	Still Pond	4.4863922	30,647.30
Barclay, 1896	39 08 34.056	1,050.3	46 57 56.46	226 52 44.30	Hope	4.2118454	16,287.16
	75 51 03.079	73.9	138 58 27.51	318 51 07.43	Still Pond	4.4047767	25,396.67
Hartly (Del.), 1896	39 10 48.844	1,506.3	75 02 15.05	254 55 27.56	Barclay	4.2052001	16,039.84
	75 40 17.816	427.6	115 06 06.82	294 51 58.33	Still Pond	4.5499741	35,479.22
Kent (Del.), 1896	38 59 37.315	1,150.6	101 31 55.26	281 20 13.00	Hope	4.4374092	27,378.47
	75 40 42.647	1,026.3	138 01 51.38	317 55 20.36	Barclay	4.3479279	22,280.65
			181 38 54.74	1 39 10.40	Hartly	4.3163240	20,716.86

Astronomic latitude stations

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
	° ′ ″		° ′ ″	° ′ ″			
Principio, astronomic latitude station, 1866	39 35 36.69	1,131.5					
	76 00 16.10	384.2					
Pooles Island, astronomic latitude station, 1847	39 17 15.66	482.9					
	76 15 44.05	1,055.9					
Taylor, astronomic latitude station, 1847	38 59 48.49	1,495.3					
	76 27 55.91	1,345.4					
Marriott, astronomic latitude station, 1846	38 52 27.82	857.9					
	76 36 35.15	847.3					
Marriott, astronomic latitude station, 1849	38 52 27.83	858.2					
	76 36 35.69	860.4					
Soper, astronomic latitude station, 1850	39 05 11.94	368.2					
	76 57 00.08	1.9					
Webb, astronomic latitude station, 1850	39 05 26.31	811.3					
	76 40 29.69	713.5					
Hill, astronomic latitude station, 1850	38 53 54.38	1,676.9					
	76 52 49.95	1,203.7					
Sugar Loaf, astronomic latitude station, 1879	39 15 45.79	1,412.1					
	77 23 36.91	884.9					
Maryland Heights, astronomic lat. sta., 1870	39 20 28.43	876.7					
	77 42 59.51	1,425.1					
Calvert, astronomic latitude station, 1871	38 21 34.31	1,057.9					
	76 23 34.92	847.9					
Gantt, astronomic latitude station, 1908	38 20 28.94	892.3					
	75 06 25.16	611.0					

Chesapeake Bay, Kent Island to the Potomac River

Principal points												
Poplar Island, 1854	38°	45	29.127	898.2	123	44	01.36	303	35	38.00	Marriott	4.3669261	23,276.95
	76	23	12.123	292.7	186	31	39.90	6	32	26.24	Kent Island, south base	4.1950156	15,668.07
Blake, 1854	38	39	45.369	1,399.0	165	02	09.59	344	59	26.40	Marriott	4.3861487	24,330.37
	76	32	14.534	351.3	230	59	10.12	51	04	49.34	Poplar Island	4.2267425	16,855.53
Hill Point, 1854	38	34	07.685	237.0	118	23	44.32	298	15	26.02	Blake	4.3413230	21,944.37
	76	18	56.096	1,358.0	163	36	28.54	343	33	48.59	Poplar Island	4.3405473	21,905.20
Wilson, 1854	38	26	21.866	674.2	162	50	36.98	342	47	19.79	Blake	4.4138581	25,933.32
	76	26	58.130	1,409.6	219	04	33.01	39	09	33.11	Hill Point	4.2674719	18,512.79
Travers, 1854	38	28	10.411	321.0	72	10	48.82	252	06	22.37	Wilson	4.0380139	10,914.75
	76	19	49.670	1,204.1	139	58	58.23	319	51	13.87	Blake	4.4472640	28,006.83
					186	42	52.39	6	43	25.76	Hill Point	4.0450304	11,092.52
Calvert, 1854	38	21	34.290	1,057.3	150	56	20.87	330	54	14.65	Wilson	4.0062900	10,145.89
	76	23	34.922	847.9	204	05	06.55	24	07	26.51	Travers	4.1264795	13,380.72
Meekins Neck, 1854	38	23	14.274	440.1	72	10	04.66	252	06	00.07	Calvert	4.0021098	10,048.70
	76	17	00.920	22.3	155	52	09.63	335	50	24.75	Travers	4.0002838	10,006.54
Cedar Point, 1854	38	17	57.727	1,779.8	161	14	49.69	341	13	51.78	Calvert	3.8483190	7,052.11
	76	22	01.542	37.5	216	46	10.30	36	49	16.80	Meekins Neck	4.0859496	12,188.48
Toms Point, 1847	38	15	41.609	1,282.9	104	58	20.95	284	51	39.38	Cedar Point	4.2122981	16,304.15
	76	11	13.341	324.3	121	10	38.97	301	02	59.25	Calvert	4.3231332	21,044.24
					148	51	34.65	328	47	59.11	Meekins Neck	4.2125113	16,312.15
Point No Point, 1846	38	08	31.150	960.4	165	46	49.50	345	44	13.46	Calvert	4.3964118	24,912.18
	76	19	22.877	557.0	167	33	18.25	347	31	40.08	Cedar Point	4.2526214	17,890.45
					221	51	51.37	41	56	54.11	Toms Point	4.2512324	17,833.33
Holland, 1848	38	06	40.035	1,234.4	99	41	59.05	279	33	27.16	Point No Point	4.3113866	20,482.67
	76	05	33.771	822.8	153	41	53.51	333	38	23.58	Toms Point	4.2702423	18,631.26
Point Lookout, 1854	38	02	48.487	1,494.9	180	06	04.33	0	06	04.80	Point No Point	4.0238738	10,565.10
	76	19	23.642	576.4	250	29	14.96	70	37	46.78	Holland	4.3314044	21,448.87
Smith Point Lighthouse (Va.), 1849	37	53	18.407	567.4	156	57	48.25	336	54	39.64	Point Lookout	4.2811067	19,103.23
	76	14	17.058	416.7	165	10	45.24	345	07	36.90	Point No Point	4.4640943	29,113.49
					207	16	30.37	27	21	52.54	Holland	4.4443328	27,818.44
Shanks Hammock (Va.), 1848	37	55	19.412	598.4	77	54	00.73	257	46	45.33	Smith Point Lighthouse	4.2482401	17,710.88
	76	02	28.356	692.6	119	17	02.37	299	06	37.51	Point Lookout	4.4530562	28,382.86
					167	51	11.01	347	49	16.81	Holland	4.3317644	21,466.66

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Pooles Island 2, 1896	39 17 15.848	488.8	260 44 44.4	80 53 03.3	Still Pond	4.281314	19,112.3
	76 15 46.352	1,110.8	326 54 34.6	146 57 18.5	Clough	4.056292	11,383.9
			56 11 32.3	236 04 44.3	North Point Lower Lighthouse	4.270200	18,629.4
Worton Point 2, 1897	39 19 08.724	269.0	24 28 46.7	204 27 21.7	Bramble	3.890080	7763.9
	76 11 09.991	239.3	62 17 38.9	242 14 43.8	Pooles Island 2	3.873955	7,480.9
Lego Point 2, 1897	39 20 11.222	346.1	288 10 57.1	108 13 32.2	Worton Point 2	3.790245	6,169.4
	76 15 14.673	351.4	7 59 26.6	187 59 06.5	Pooles Island 2	3.737292	5,461.2
Abbey Island 2, 1897	39 20 54.713	1,687.3	312 14 10.0	132 15 45.2	Worton Point 2	3.686756	4,861.3
	76 13 40.241	963.6	24 07 26.4	204 06 06.4	Pooles Island 2	3.868922	7,394.7
			59 20 10.2	239 19 10.3	Lego Point 2	3.419823	2,629.2
Plum Point 2, 1897	39 19 55.147	1,700.7	42 46 44.1	222 46 09.1	Worton Point 2	3.290122	1,950.4
	76 10 14.694	351.9	110 28 56.1	290 26 45.8	Abbey Island 2	3.720489	5,254.0
Next, 1897	39 22 02.141	66.0	330 47 08.8	150 48 06.8	Plum Point 2	3.651931	4,486.7
	76 11 46.126	1,104.1	350 48 20.8	170 48 43.7	Worton Point 2	3.733803	5,417.6
			52 44 05.7	232 42 53.3	Abbey Island 2	3.535729	3,433.4
Harris, 1897	39 21 05.771	178.0	55 51 14.9	235 49 50.0	Plum Point 2	3.588721	3,879.0
	76 08 00.654	15.7	107 52 13.6	287 49 50.6	Next	3.753666	5,671.1
Taylor 2, 1897	39 22 41.220	1,271.2	306 11 40.5	126 13 27.0	Harris	3.697476	4,982.8
	76 10 48.597	1,163.1	350 59 25.6	170 59 47.2	Plum Point 2	3.714785	5,185.4
			48 48 48.4	228 48 11.9	Next	3.262434	1,829.9
Woman, 1897	39 23 26.661	822.2	322 46 44.1	142 48 11.5	Harris	3.736829	5,455.4
	76 10 18.474	442.1	359 12 16.4	179 12 18.9	Plum Point 2	3.814480	6,523.5
			27 13 34.4	207 13 15.3	Taylor 2	3.197537	1,575.9
Howell Point 2, 1897	39 22 19.232	593.1	41 04 56.4	221 04 04.1	Harris	3.477870	3,005.2
	76 06 38.177	913.9	111 32 36.1	291 30 16.3	Woman	3.753414	5,667.8
Stephenson 2, 1897	39 24 31.279	964.6	328 33 06.5	148 34 12.5	Howell Point 2	3.678782	4,772.9
	76 08 22.207	531.4	355 20 41.7	175 20 55.3	Harris	3.803363	6,358.6
			54 23 45.4	234 22 31.6	Woman	3.534289	3,422.1
Cool 2, 1897	39 24 10.171	311.8	62 38 40.0	242 35 44.9	Howell Point 2	3.871300	7,435.3
	76 02 02.292	54.9	94 08 28.7	274 04 27.5	Stephenson 2	3.959663	9,113.0
			201 57 44.3	21 58 39.4	Turkey Point	3.747639	5,592.9
Bear 2, 1897	39 26 09.752	300.7	256 25 05.9	76 27 50.8	Turkey Point	3.805225	6,385.9
	76 04 54.419	1,301.4	311 50 54.3	131 52 43.6	Cool 2	3.742623	5,528.7
			19 15 30.9	199 14 25.0	Howell Point 2	3.876797	7,530.0
			58 35 35.4	238 33 23.4	Stephenson 2	3.765263	5,824.6
Wroths Point 2, 1898	39 25 49.026	1,511.9	46 04 27.4	226 03 03.2	Cool 2	3.643085	4,396.3
	75 59 49.954	1,194.8	95 02 35.8	274 59 22.4	Bear 2	3.863894	7,309.6
			153 20 30.5	333 20 02.0	Turkey Point	3.378486	2,390.5
Sandy Point 2, 1898	39 26 51.276	1,581.3	267 10 31.3	87 12 28.6	Turkey Point	3.645415	4,419.9
	76 03 39.439	943.1	289 15 36.8	109 18 02.6	Wroths Point 2	3.764476	5,814.0
			334 56 04.6	154 57 06.7	Cool 2	3.739300	5,486.6
			54 28 18.8	234 27 31.2	Bear 2	3.343085	2,203.4
Rock, 1898	39 28 54.289	1,674.3	2 46 39.3	182 46 31.9	Wroths Point 2	3.757406	5,720.1
	75 59 38.366	916.9	20 40 19.8	200 39 43.9	Turkey Point	3.582421	3,823.2
			56 39 54.0	236 37 20.8	Sandy Point 2	3.838820	6,899.5
Locust 2, 1898	39 28 31.176	961.5	264 00 14.2	84 03 15.6	Rock	3.835831	6,852.2
	76 04 23.508	561.8	297 37 49.2	117 40 14.6	Turkey Point	3.790433	6,172.1
Swan, 1898	39 29 11.319	349.1	272 53 26.5	92 57 59.7	Rock	4.011978	10,279.6
	76 06 47.938	1,145.6	289 43 02.1	109 44 33.9	Locust 2	3.564331	3,667.2
			294 39 59.6	114 43 56.8	Turkey Point	3.992000	9,817.5
Davis 2, 1898	39 31 07.367	227.2	292 59 40.3	113 03 57.3	Rock	4.020800	10,490.6
	76 06 22.435	536.0	312 43 31.5	132 47 12.3	Turkey Point	4.053636	11,314.5
			316 16 04.3	136 20 13.6	Wroths Point 2	4.132862	13,578.8
			329 27 05.0	149 28 20.5	Locust 2	3.747615	5,592.6
			9 39 55.1	189 39 38.8	Swan	3.559952	3,630.4
Havre de Grace 2, 1898	39 32 25.995	801.7	309 44 54.1	129 48 22.9	Rock	4.008796	10,204.6
	76 05 06.654	158.9	327 14 42.9	147 17 35.7	Turkey Point	4.079673	12,013.6
			351 53 42.0	171 54 09.3	Locust 2	3.864199	7,314.7
			21 57 32.2	201 56 27.7	Swan	3.811101	6,472.9
			36 44 38.2	216 43 50.0	Davis 2	3.480841	3,025.8
Stump Point 2, 1898	39 32 57.091	1,760.7	2 42 18.4	182 42 08.0	Locust 2	3.914337	8,209.9
	76 04 07.296	174.2	43 39 19.6	223 37 53.7	Davis 2	3.669886	4,676.1
			55 55 16.3	235 54 38.6	Havre de Grace 2	3.233333	1,711.3
Bull, 1898	39 30 36.743	1,133.1	62 42 43.2	242 39 23.5	Locust 2	3.926272	8,438.6
	75 59 09.743	232.7	95 15 32.2	275 10 56.9	Davis 2	4.016169	10,379.3
			111 35 50.4	291 32 03.3	Havre de Grace 2	3.962199	9,166.4
Red Bank 2, 1898	39 31 39.582	1,220.7	53 53 08.4	233 49 36.5	Locust 2	3.993490	9,851.2
	75 58 50.551	1,207.4	84 46 51.1	264 42 03.6	Davis 2	4.034990	10,839.0
			99 05 15.5	279 01 16.1	Havre de Grace 2	3.958818	9,095.3

Upper Chesapeake Bay—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Carpenters Point 2, 1898	39 32 22.181	684.1	299 36 58.4	119 37 59.8	Red Bank 2	3.424507	2,657.7
	76 00 27.290	651.7	330 19 36.1	150 20 25.3	Bull	3.573128	3,742.2
			38 24 20.2	218 21 49.6	Locust 2	3.958494	9,088.5
			91 02 04.6	270 59 06.6	Havre de Grace 2	3.824267	6,672.2
Lower, 1898	39 32 47.808	1,474.4	290 10 31.9	110 13 04.5	Red Bank 2	3.784926	6,094.3
	76 02 50.059	1,195.3	307 30 35.8	127 32 56.1	Bull	3.821852	6,635.2
			343 17 55.9	163 19 21.9	Turkey point	4.051259	11,252.8
			15 45 37.5	195 44 38.1	Locust 2	3.915045	8,223.0
			58 36 20.6	238 34 05.7	Davis 2	3.774006	5,943.3
Hance Point 2, 1898	39 33 24.732	762.8	19 31 19.6	199 30 48.9	Red Bank 2	3.536627	3,440.5
	75 58 02.412	57.6	60 51 56.8	240 50 24.7	Carpenters Point 2	3.597777	3,960.7
Coulter, 1898	39 34 06.823	210.4	359 00 04.0	179 00 06.0	Red Bank 2	3.657207	4,541.6
	75 58 53.866	1,285.8	34 39 32.4	214 38 33.0	Carpenters Point 2	3.593612	3,922.9
Lego Point, 1918	39 20 11.321	349.1	288 12 34.4	108 15 09.5	Worton Point 2	3.790312	6,170.4
	76 15 14.673	351.4	343 35 23.8	163 36 33.8	Bramble	3.972140	9,378.6
			7 59 11.5	187 58 51.4	Pooles Island 2	3.737535	5,464.3
Stoops Point Tower No. 9, 1918	39 16 46.228	1,425.6	99 35 14.7	279 32 51.5	Pooles Island 2	3.740017	5,495.6
	76 12 00.243	5.8	143 38 41.2	323 36 38.0	Lego Point, 1918	3.895151	7,855.1
			195 19 10.4	15 19 42.2	Worton Point 2	3.658618	4,556.4
Spry Island, 1918	39 17 42.579	1,313.1	278 38 33.7	98 40 56.7	Pooles Island 2	3.738248	5,473.3
	76 19 32.138	770.4	296 31 56.8	116 35 49.7	Bramble	3.993935	9,861.3
			33 57 30.0	213 56 19.7	Millers Island	3.678148	4,765.9
Worton Point Tower No. 8, 1918	[1]39 19 07.52	231.9	122 21 52	302 21 50	Worton Point 2	1.840852	69.319
	76 11 07.55	180.8					
"L" Tower (new), 1918	39 21 59.343	1,830.1	348 31 34.1	168 32 02.4	Worton Point 2	3.729886	5,368.9
	76 11 54.574	1,306.4	32 26 10.5	212 23 43.6	Pooles Island 2	4.015207	10,356.4
			55 12 25.1	235 10 18.2	Lego Point, 1918	3.766076	5,835.5
Plum Point Tower No. 7, 1918	39 20 07.274	224.3	90 52 57.6	270 49 15.4	Lego Point, 1918	3.924012	8,394.8
	76 09 24.187	579.3	133 50 15.4	313 48 40.0	"L" Tower (new)	3.698195	4,991.1
Meeks Point Tower No. 5, 1918	39 21 05.265	162.4	48 24 50.5	228 23 57.2	Plum Point Tower No. 7	3.430393	2,694.0
	76 08 00.052	1.2	80 57 24.9	260 52 49.4	Lego Point, 1918	4.022832	10,539.8
			106 33 47.4	286 31 18.7	"L" Tower (new)	3.767692	5,857.2
"L" Tower (old), 1918	39 22 48.739	1,503.1	304 30 30.7	124 32 33.6	Meeks Point Tower No. 6	3.750524	5,630.2
	76 11 13.817	330.7	332 11 44.3	152 12 53.9	Plum Point Tower No. 7	3.750420	5,628.9
			32 38 22.4	212 37 56.6	"L" Tower (new)	3.257427	1,809.9
Howell Point, 1918	39 22 18.213	561.7	39 41 37.5	219 40 48.0	Meeks Point Tower No. 6	3.465882	2,923.4
	76 06 42.074	1,007.1	98 15 33.8	278 12 41.4	"L" Tower (old)	3.817706	6,572.1
			225 35 45.0	45 39 40.4	Turkey Point Lighthouse	4.093672	12,407.1
"H" Tower, 1918	39 24 33.666	1,038.2	248 07 32.6	68 12 30.9	Turkey Point Lighthouse	4.082705	12,097.8
	76 08 20.894	499.9	330 28 34.7	150 29 37.4	Howell Point, 1918	3.681259	4,800.2
			355 33 35.8	175 33 49.0	Meeks Point Tower No. 6	3.809307	6,446.2
			51 59 23.1	231 57 33.3	"L" Tower (old)	3.720401	5,252.9
"K" Tower, 1918	39 24 12.409	382.7	253 31 32.8	73 32 31.6	"H" Tower	3.364134	2,312.8
	76 09 53.596	1,282.3	307 31 12.6	127 33 14.1	Howell Point, 1918	3.761942	5,780.2
			334 46 28.3	154 47 40.3	Meeks Point Tower No. 6	3.804768	6,379.2
Black Point Tower (old), 1918	39 25 56.960	1,756.6	256 57 07.9	77 00 49.7	Turkey Point Lighthouse	3.933003	8,570.4
	76 06 20.545	491.4	4 22 06.6	184 21 52.9	Howell Point, 1918	3.830309	6,765.6
			48 16 04.7	228 14 48.3	"H" Tower	3.586386	3,858.2
Howell Point Tower No. 5, 1918	39 22 14.325	441.8	109 30 10.2	289 30 01.2	Howell Point, 1918	2.555312	359.2
	76 06 27.930	668.6	147 50 10.2	327 48 58.5	"H" Tower	3.705587	5,076.8
			181 28 24.7	1 28 29.4	Black Point Tower (old)	3.836842	6,868.2
			224 05 23.7	44 09 10.1	Turkey Point Lighthouse	4.088257	12,253.4
Grove Point, 1918	39 23 51.208	1,579.2	65 19 06.9	245 16 21.6	Howell Point, 1918	3.836454	6,862.1
	76 02 21.593	516.7	124 10 31.1	304 07 59.4	Black Point (old)	3.839330	6,907.6
			204 24 19.9	24 25 29.9	Turkey Point Lighthouse	3.804750	6,379.0
Black Point (new), 1918	39 26 07.040	217.1	258 35 58.5	78 39 32.5	Turkey Point Lighthouse	3.914590	8,214.7
	76 06 08.142	194.7	307 40 55.5	127 43 19.4	Grove Point	3.835668	6,849.6
			6 33 57.1	186 33 35.6	Howell Point, 1918	3.851466	7,103.4
			43 39 42.5	223 39 34.7	Black Point Tower (old)	2.633129	429.7
Tower No. 2 (B), 1918	39 26 46.764	1,442.2	267 11 40.6	87 15 16.8	Turkey Point Lighthouse	3.911010	8,147.2
	76 06 11.691	279.5	314 30 28.3	134 32 54.4	Grove Point	3.887641	7,720.4
			5 01 06.7	185 00 47.4	Howell Point, 1918	3.919797	8,313.8
			7 50 57.9	187 50 52.3	Black Point Tower (old)	3.190455	1,550.4
Tower No. 3 (A), 1918	39 25 12.474	384.7	176 58 05.5	356 58 03.6	Black Point Tower (old)	3.137941	1,373.9
	76 06 17.507	418.8	248 13 17.8	68 16 57.7	Turkey Point Lighthouse	3.950007	8,912.7
			293 55 19.5	113 57 49.3	Grove Point	3.790672	6,175.5
			6 14 41.7	186 14 26.1	Howell Point, 1918	3.732887	5,406.1

[1] No check on this position.

Upper Chesapeake Bay—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Tower No. 4 (A), 1918	39 23 44.102	1,360.1	180 41 18.9	0 41 20.2	Black Point Tower (old)	3.612524	4,097.5
	76 06 22.604	540.9	234 18 43.2	54 22 26.2	Turkey Point Lighthouse	4.014531	10,340.2
			267 48 09.5	87 50 42.5	Grove Point	3.761237	5,771.2
			9 58 45.6	189 58 33.2	Howell Point, 1918	3.429661	2,689.4
Clubhouse cupola, 1918	39 28 33.708	1,039.6	292 10 04.4	112 13 13.6	Turkey Point Lighthouse	3.885736	7,686.6
	76 05 29.073	694.9	14 17 15.0	194 16 42.3	Black Point Tower (old)	3.697944	4,988.2
Converse, 1918	39 26 37.681	1,162.0	194 41 47.9	14 41 49.6	Clubhouse cupola	3.568103	3,699.2
	76 06 08.315	198.8	338 08 30.7	158 10 01.6	Betterton School cupola	3.964301	9,210.9
			5 46 00.5	185 45 39.0	Howell Point, 1918	3.905389	8,042.5
			13 06 42.5	193 06 34.7	Black Point Tower (old)	3.110392	1,289.4
Londonderry (Pa.), 1878	39 51 50.52	1,558.0	19 30 52.2	199 26 07.2	Principio	4.503189	31,855.8
	75 52 50.44	1,198.7	319 04 45.1	139 11 15.7	Meetinghouse Hill	4.346251	22,194.8
Rawlinsville (Pa.)	39 53 09.57	295.1	274 06 10.7	94 21 00.5	Londonderry	4.519471	33,072.8
	76 15 58.36	1,386.5	325 16 55.4	145 26 57.5	Principio	4.596200	39,463.9
Supplementary points							
Pooles Island Lighthouse, 1842	39 17 25.792	795.3	40 21 16.0	220 12 57.7	Linstid	4.466427	29,270.3
	76 16 00.187	4.5	120 26 29.6	300 16 41.0	Finlay	4.410963	25,761.4
Pooles Island Rear Range Light, 1919	39 16 37.575	1,158.7	208 49 23.3	28 49 40.5	Pooles Island 2	3.129441	1,347.2
	76 16 13.454	322.5	333 03 41.4	123 05 27.5	Tower 10	3.680715	4,794.2
			335 29 05.9	155 30 17.9	Tower 11	3.811876	6,484.5
Pooles Island Front Range Light, 1919	39 16 38.242	1,179.3	82 08 12.6	262 08 08.6	Pooles Island Rear Light	2.177388	150.4
	76 16 07.236	173.4	203 20 35.0	23 20 49.2	Pooles Island 2	3.101444	1,263.1
			304 16 03.0	124 17 50.1	Tower 10	3.670390	4,681.6
			336 46 05.8	156 47 12.8	Tower 11	3.809088	6,443.0
Still Pond M. E. Church, spire, 1890[1]	39 19 42.34	1,305.7	127 30 03	307 21 17	Osbornes Ruin	4.397866	24,995.8
	76 03 03.32	79.5	194 47 35	14 49 11	Turkey Point	4.143219	13,906.5
Lantern, 1898[1]	39 22 19.70	607.5	242 13 21	62 14 37	Katz	3.50983	3,235
	76 03 47.04	1,126.0	279 10 46	99 11 16	Price	3.06562	1,163

Betterton School, cupola, 1918	39 22 00.452	13.9	152 59 18.9	332 57 40.2	Black Point Tower (old)	3.913165	8,187.8
	76 03 45.061	1,078.7	206 39 28.9	26 41 31.9	Turkey Point Lighthouse	4.013798	10,322.8
Turkey Point Lighthouse, 1844	39 26 59.556	1,836.7	11 33 16.7	191 31 55.8	Still Pond	4.183521	15,258.8
	76 00 31.359	749.8	94 15 00.2	274 04 36.5	Osbornes Ruin	4.371571	23,527.2
Riggs Hill	39 35 33.449	1,031.5					
	75 54 42.441	1,012.6					
Grays Hill	39 36 47.693	1,470.8					
	75 47 51.685	1,232.8					
Furnace	39 35 27.550	849.5	268 38 30.3	88 41 59.7	Riggs Hill	3.894583	7,844.8
	76 00 11.113	265.2					
Fishing Battery Lighthouse, 1898	39 29 40.607	1,252.3	70 32 55.9	250 31 47.8	Swan	3.433140	2,711.1
	76 05 00.970	21.2	143 58 30.8	323 57 39.0	Davis 2	3.519649	3,308.6
			178 28 31.9	358 28 28.4	Havre de Grace 2	3.707768	5,102.3
			208 25 48.0	28 27 11.2	Lower	3.817275	6,565.6
			258 18 44.6	78 22 28.0	Bull	3.932900	8,568.4
			280 28 06.7	100 31 31.8	Rock	3.894347	7,840.6
			337 18 20.3	157 18 44.1	Locust 2	3.365648	2,320.9
Fishing Battery flagstaff, 1898	39 29 39.377	1,214.4	23 29 09.6	203 28 46.4	Club	3.338410	2,179.8
	76 05 00.510	12.2	71 22 59.8	251 21 51.4	Swan	3.432825	2,709.1
			144 12 18.1	324 11 26.0	Davis 2	3.524504	3,345.8
			178 21 51.7	358 21 47.8	Havre de Grace 2	3.711010	5,140.6
Havre de Grace Lighthouse, 1897	39 32 26.508	817.5	236 08 54.6	56 09 32.1	Stump Point 2	3.228774	1,693.5
	76 05 06.199	148.0	271 07 23.1	91 10 20.8	Carpenter Point 2	3.823578	6,661.6
			279 07 50.2	99 11 49.3	Red Bank 2	3.958423	9,087.1
			351 59 47.9	172 00 15.0	Locust 2	3.865037	7,328.9
			5 50 53.4	185 50 33.9	Club	3.856786	7,190.9
			34 27 43.2	214 27 42.9	Havre de Grace 2	1.283501	19.21
Locust Point shanty, chimney, 1898	39 28 28.000	863.5	150 58 29.9	330 57 17.3	Davis 2	3.749839	5,621.3
	76 04 28.254	675.3	172 52 43.6	352 52 19.2	Havre de Grace 2	3.869044	7,396.8
			196 18 36.1	16 19 38.4	Lower	3.921619	8,348.7
Havre de Grace, graveyard, cross, 1898	39 33 42.026	1,296.1	289 34 05.2	109 38 47.8	Red Bank 2	4.051265	11,252.9
	76 06 14.494	346.0	299 21 22.9	119 25 53.3	Bull	4.066034	11,642.2
			344 31 54.6	164 33 05.3	Locust 2	3.997664	9,946.4
Havre de Grace, graveyard monument	39 33 42.826	1,320.7	289 39 30.4	109 44 13.4	Red Bank 2	4.052175	11,276.5
	76 06 15.175	362.3	299 25 21.8	119 29 52.6	Bull	4.067013	11,668.4
			344 28 46.3	164 29 57.4	Locust 2	3.998890	9,974.5
Havre de Grace, graveyard monument	39 33 43.299	1,335.3	289 48 41.1	109 53 22.8	Red Bank 2	4.050614	11,236.1
	76 06 13.166	314.1	299 36 07.8	119 40 37.3	Bull	4.065718	11,633.7
			344 46 08.5	164 47 18.3	Locust 2	3.998946	9,975.8

Upper Chesapeake Bay—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
DuBois sawmill, brick stack, 1898	39 32 43.794	1,350.6	255 24 58.5	75 25 40.6	Stump Point 2	3.211991	1,629.3
	76 05 13.336	318.4	282 11 22.2	102 15 25.8	Red Bank 2	3.970961	9,353.2
			351 18 29.8	171 19 01.5	Locust 2	3.896586	7,881.1
South white barn, cupola, 1898	39 29 34.841	1,074.5	76 14 59.2	256 11 26.2	Locust 2	3.916086	8,243.0
	75 58 48.520	1,159.4	86 25 09.4	266 20 04.6	Swan	4.059923	11,479.5
			120 20 00.6	300 16 00.3	Havre de Grace 2	4.019608	10,461.8
North white barn, cupola, 1898	39 29 52.688	1,624.9	73 15 24.5	253 11 42.5	Locust 2	3.940039	8,710.4
	75 58 34.532	825.1	83 52 04.2	263 46 50.4	Swan	4.074058	11,859.3
			116 49 04.1	296 44 54.8	Havre de Grace 2	4.020864	10,492.1
West barn near station Carpenter, cupola, 1898	39 32 27.190	838.5	241 23 02.1	61 24 28.8	Hance Point 2	3.568992	3,706.7
	76 00 18.711	446.8	304 52 57.9	124 53 53.9	Red Bank 2	3.409388	2,566.8
			52 59 01.5	232 58 56.1	Carpenter Point 2	2.409217	256.6
East barn near station Carpenter, cupola, 1898	39 32 27.186	838.4	241 19 22.5	61 20 49.0	Hance Point 2	3.568173	3,699.8
	76 00 18.375	438.8	304 59 00.5	124 59 56.3	Red Bank 2	3.408263	2,560.1
			54 03 21.6	234 03 16.0	Carpenter Point 2	2.419889	263.0
Club, 1898	39 28 34.549	1,065.5	123 43 41.7	303 42 56.5	Swan	3.310180	2,042.6
	76 05 36.854	880.8	166 59 30.9	346 59 02.0	Davis 2	3.684551	4,837.1
			185 46 09.4	5 46 28.7	Havre de Grace 2	3.855766	7,174.1
			194 47 36.1	14 48 33.1	Stump Point 2	3.922966	8,374.6
			202 49 33.5	22 49 56.4	Fishing Battery Lighthouse	3.344457	2,210.3
Mulberry 2, 1898	39 26 49.361	1,522.3	190 33 31.6	10 33 47.6	Club	3.518500	3,299.9
	76 06 02.152	51.5	307 00 57.1	127 01 40.1	Bear 2	3.307216	2,028.7
			5 54 35.2	185 54 12.4	Howell Point 2	3.922987	8,375.0
Bush, 1898	39 21 50.791	1,566.4	297 12 36.9	117 15 40.4	Plum Point 2	3.891686	7,792.7
	76 15 04.047	96.9	310 45 00.8	130 45 54.0	Abbey Island 2	3.423071	2,648.9
			4 44 16.2	184 44 09.5	Lego Point 2	3.488709	3,081.1
Briery, 1898	39 21 32.597	1,005.3	289 24 39.8	109 26 07.6	Abbey Island 2	3.545703	3,513.2
	76 15 58.321	1,403.4	290 01 00.1	110 04 38.2	Plum Point 2	3.942844	8,766.9
			302 40 14.1	122 43 17.1	Worton Point 2	3.914535	8,213.6
			337 14 45.3	157 15 13.2	Lego Point 2	3.434764	2,721.2
Charlestown flagstaff, 1898 [1]	39 34 12.86	396.6	335 02 50	155 03 09	Hance Point 2	3.21409	1,637
	75 58 31.34	748.1	70 53 23	250 53 09	Coulter	2.75511	569
Windmill with red and white bands, 1898 [1]	39 30 19.74	608.8	258 34 00	78 39 25	Red Bank 2	4.09585	12,470
	76 07 22.28	532.3	267 24 21	87 29 34	Bull	4.07110	11,779
Diston's windmill, 1898 [1]	39 33 57.94	1,786.9	298 10 28	118 11 19	Hance Point 2	3.33611	2,168
	75 59 22.47	536.4	349 52 08	169 52 28	Red Bank 2	3.63693	4,334
Diston's boathouse, flagstaff, 1898 [1]	39 33 57.74	1,780.7	241 34 52	61 35 06	Coulter	2.76973	588
	75 59 15.55	371.2	352 01 24	172 01 40	Red Bank 2	3.63372	4,302
Standpipe, Aberdeen, 1898 [1]	39 30 50.22	1,548.8	264 47 30	83 55 00	Red Bank 2	4.22979	16,974
	76 10 38.32	915.4	271 23 10	91 30 28	Bull	4.21629	16,455
Taylor house, south chimney, 1898	39 23 24.764	763.7	314 46 53.6	134 48 48.0	Harris	3.784150	6,083.5
	76 11 00.992	23.7	347 32 29.9	167 32 37.8	Taylor 2	3.138380	1,375.2
			350 15 57.6	170 16 27.1	Plum Point 2	3.816818	6,558.7
House near station Next, south gable, 1898 [1]	39 22 14.11	435.1	290 03 47	110 06 20	Harris	3.78797	6,137
	76 12 01.41	33.8	315 14 42	135 14 51	Next	2.71582	520

Elk River

Principal points							
Pearce 2, 1898	39 26 38.979	1,202.1	48 13 38.3	228 11 22.3	Cool 2	3.838155	6,889.0
	75 58 27.562	659.1	51 59 17.7	231 58 25.4	Wroths Point 2	3.398139	2,501.1
			84 28 09.5	264 24 03.8	Bear 2	3.968251	9,295.0
			92 56 18.9	272 53 00.8	Sandy 2	3.873157	7,467.2
Abb, 1898	39 27 30.319	935.0	319 35 12.3	139 35 48.1	Pearce 2	3.317918	2,079.3
	75 59 23.935	572.2	11 16 02.8	191 15 46.3	Wroths Point 2	3.503130	3,185.1
Cabin, 1898	39 27 46.568	1,436.2	35 53 48.5	215 52 38.8	Wroths Point 2	3.650716	4,474.2
	75 58 00.271	6.5	68 08 40.5	248 07 04.5	Turkey Point Light	3.590210	3,892.3
			75 56 32.7	255 55 39.5	Abb	3.314279	2,062.0
Bat, 1898	39 28 26.481	816.7	344 15 54.3	164 16 03.5	Cabin	3.106812	1,278.8
	75 58 14.778	353.2	5 16 06.7	185 15 58.5	Pearce 2	3.522359	3,329.3
			25 07 06.9	205 06 06.4	Wroths Point 2	3.729375	5,362.6
			43 40 20.2	223 39 36.2	Abb	3.379188	2,394.4
Ford 2, 1898	39 28 27.405	845.2	53 59 16.2	233 58 30.1	Cabin	3.330756	2,141.7
	75 56 47.804	1,142.6	89 13 20.2	269 12 24.9	Bat	3.317865	2,079.1

[1] No check on this position.

Elk River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
***Principal points*—Continued**	° ′ ″		° ′ ″	° ′ ″			
Grass, 1898	39 29 25.979	801.2	351 38 10.5	171 38 17.6	Ford 2	3.261453	1,825.8
	75 56 58.915	1,407.8	25 34 08.0	205 33 29.0	Cabin	3.531285	3,398.5
			44 39 50.8	224 39 02.6	Bat	3.411542	2,579.5
Corn, 1898	39 29 59.225	1,826.5	19 22 45.2	199 22 18.7	Ford 2	3.477366	3,001.7
	75 56 06.133	146.5	50 53 43.1	230 53 09.5	Grass	3.210959	1,625.4
Log, 1898	39 29 52.331	1,613.9	40 11 11.0	220 10 12.1	Ford 2	3.535033	3,427.9
	75 55 15.261	364.6	71 50 36.4	251 49 30.4	Grass	3.416100	2,606.8
			99 55 32.2	279 54 59.8	Corn	3.091306	1,234.0
Wilson, 1898	39 30 16.535	509.9	323 14 13.7	143 14 28.6	Log	2.969286	931.7
	75 55 38.599	922.2	26 10 30.2	206 09 46.2	Ford 2	3.574020	3,749.9
			50 56 37.5	230 56 20.0	Corn	2.927990	847.2
Town Point 2, 1898	39 30 09.504	293.1	39 03 29.7	219 03 18.3	Log	2.833808	682.0
	75 54 57.275	1,368.4	40 00 06.6	219 58 56.3	Ford 2	3.613828	4,109.9
			79 05 58.1	259 05 14.3	Corn	3.224140	1,675.5
			102 23 22.6	282 22 56.3	Wilson	3.004684	1,010.8
Piney, 1898	39 30 58.383	1,800.5	353 00 01.1	173 00 06.0	Town Point 2	3.181478	1,518.7
	75 55 05.021	119.9	6 50 56.6	186 50 50.1	Log	3.312105	2,051.7
			31 51 58.0	211 51 36.6	Wilson	3.181718	1,519.6
Elk, 1898	39 30 18.286	563.9	78 16 13.5	258 15 38.8	Town Point 2	3.124396	1,331.7
	75 54 02.703	64.6	88 39 29.3	268 38 28.3	Wilson	3.360168	2,291.8
			129 43 06.9	309 42 27.3	Piney	3.286758	1,935.3
Field, 1898	39 30 43.361	1,337.3	354 28 40.0	174 28 42.0	Elk	2.890381	776.9
	75 54 05.832	139.3	49 39 13.2	229 38 40.5	Town Point 2	3.207546	1,612.7
			69 32 14.7	249 31 15.7	Wilson	3.373946	2,365.6
Court, 1898	39 30 48.634	1,499.9	55 22 12.9	235 21 36.8	Elk	3.216639	1,646.8
	75 53 05.986	143.0	83 30 57.3	263 30 19.2	Field	3.158023	1,438.9
Duck, 1898	39 31 19.973	616.0	329 16 15.9	149 16 31.2	Court	3.050897	1,124.3
	75 53 30.036	717.4	22 18 22.0	202 18 01.2	Elk	3.313081	2,056.3
			37 08 24.0	217 08 01.2	Field	3.151173	1,416.4
Island, 1898	39 31 01.987	61.3	62 58 55.6	242 58 34.1	Court	2.957295	906.3
	75 52 32.186	768.9	111 52 40.8	291 52 04.0	Duck	3.172898	1,489.0
Creek, 1898	39 31 24.161	745.1	27 09 14.4	207 09 05.1	Island	2.885677	768.6
	75 52 17.502	418.1	46 35 34.1	226 35 03.3	Court	3.202558	1,594.3
			85 44 37.8	265 43 51.7	Duck	3.239874	1,737.3
Back, 1898	39 31 26.671	822.5	278 03 32.0	98 03 46.5	Creek	2.741889	551.9
	75 52 40.382	964.5	345 34 38.6	165 34 43.8	Island	2.895435	786.0
			27 32 21.5	207 32 05.2	Court	3.121523	1,322.9
			80 07 34.2	260 07 02.6	Duck	3.080569	1,203.8
Last, 1898	39 31 36.775	1,134.1	13 05 12.9	193 05 03.7	Court	3.183050	1,524.2
	75 52 51.539	1,231.0	60 36 05.0	240 35 40.5	Duck	3.023433	1,055.4
Kid, 1899	39 31 55.731	1,718.7	313 58 38.9	133 58 55.0	Last	2.925243	841.9
	75 53 16.904	403.7	352 48 58.9	172 49 05.8	Court	3.319233	2,085.6
			15 52 40.8	195 52 32.4	Duck	3.059367	1,146.5
Trim, 1899	39 31 58.570	1,806.3	37 00 23.7	217 00 10.2	Last	2.925151	841.7
	75 52 30.327	724.3	85 30 10.8	265 29 41.2	Kid	3.047581	1,115.8
Wet, 1899	39 32 35.530	1,095.7	348 55 05.8	168 55 11.7	Trim	3.065022	1,161.5
	75 52 39.675	947.4	8 53 14.8	188 53 07.2	Last	3.263406	1,834.0
			35 55 09.5	215 54 45.8	Kid	3.180573	1,515.6
Swan, 1899	39 32 59.229	1,826.6	42 25 50.2	222 25 04.6	Trim	3.403849	2,534.2
	75 51 18.731	447.2	69 17 35.9	249 16 44.4	Wet	3.315192	2,066.3
Plum, 1899	39 33 39.159	1,207.7	354 35 30.3	174 35 33.4	Swan	3.092356	1,237.0
	75 51 23.614	563.7	27 11 08.8	207 10 26.3	Trim	3.542481	3,487.2
			42 47 20.5	222 46 32.1	Wet	3.427106	2,673.7
Tom, 1899	39 34 43.134	1,330.3	7 31 41.7	187 31 30.4	Swan	3.509515	3,232.3
	75 51 00.995	23.7	15 18 22.8	195 18 08.4	Plum	3.310810	2,045.5
Fun, 1899	39 34 50.268	1,550.3	27 23 32.5	207 22 45.2	Swan	3.586214	3,856.7
	75 50 04.415	105.4	40 46 08.0	220 45 17.6	Plum	3.461697	2,895.3
			80 45 05.6	260 44 29.6	Tom	3.136129	1,368.1
Hill, 1899	39 35 39.198	1,208.9	307 42 27.6	127 43 19.7	Fun	3.392136	2,466.8
	75 51 26.190	624.9	340 49 25.3	160 49 41.4	Tom	3.262588	1,830.6
Cedar, 1899	39 35 31.232	963.2	339 20 55.4	159 21 08.1	Fun	3.130363	1,350.1
	75 50 24.367	581.4	30 30 47.0	210 30 23.7	Tom	3.235968	1,721.7
			99 27 38.3	279 26 58.9	Hill	3.174786	1,495.5
Ton, 1899	39 35 53.643	1,654.4	47 56 49.7	227 56 29.2	Cedar	3.013595	1,031.8
	75 49 52.259	1,246.9	78 45 58.7	258 44 58.8	Hill	3.358896	2,285.1

Elk River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Elk, 1899	39 36 16.418	506.3	338 30 10.7	158 30 18.1	Ton	2.877887	754.9
	75 50 03.854	91.9	19 21 14.3	199 21 01.2	Cedar	3.169378	1,477.0
			59 42 32.5	239 41 40.0	Hill	3.357029	2,275.2
Supplementary points							
High, 1898 [1]	39 24 45.93	1,416.5	180 40 55	0 40 56	Turkey Point	3.610933	4,082.6
	76 00 36.84	881.4	209 57 11	29 57 40	Wroths Point 2	3.351420	2,246.1
Malt, 1898	39 27 04.232	130.5	228 22 18.8	48 22 42.8	Abb	3.083192	1,211.1
	76 00 01.803	43.1	289 03 26.0	109 04 25.8	Pearce 2	3.377333	2,384.1
			353 02 08.1	173 02 15.6	Wroths Point 2	3.368570	2,336.5
Barn, west gable, 1898 [1]	39 27 33.37	1,029.1	311 37 59	131 38 49	Pearce 2	3.402198	2,524.6
	75 59 46.47	1,110.9	1 28 58	181 28 56	Wroths Point 2	3.507732	3,219.1
Beach, 1898	39 26 17.395	536.4	59 55 27.7	239 54 47.6	Wroths Point 2	3.241919	1,745.5
	76 58 46.801	1,119.2	116 02 22.9	296 01 14.3	Turkey Point	3.458545	2,874.4
			158 27 28.5	338 27 04.9	Abb	3.383427	2,417.8
Wharf House, gable, 1898	39 26 53.509	1,650.2	40 49 51.5	220 49 05.9	Wroths Point 2	3.419610	2,627.9
	75 58 38.116	911.4	136 01 26.2	316 00 57.1	Abb	3.197997	1,577.6
			191 00 34.4	11 00 49.3	Bat	3.455532	2,921.0
Ese, 1898	39 27 23.563	726.7	36 05 28.9	216 04 32.5	Wroths Point 2	3.557205	3,607.5
	75 58 21.104	504.6	97 54 08.9	277 53 29.0	Abb	3.180853	1,516.5
			215 04 04.7	35 04 18.0	Cabin	2.937933	866.8
Ram, 1898	39 28 52.023	1,604.4	227 17 57.2	47 18 27.4	Grass	3.188716	1,544.2
	75 57 46.406	1,109.1	298 27 16.0	118 27 53.3	Ford 2	3.202263	1,593.2
			9 19 28.5	189 19 19.7	Cabin	3.310830	2,045.6
			40 43 35.4	220 43 17.4	Bat	3.016775	1,039.4
Johns, 1898	39 28 00.106	3.3	69 26 14.7	249 25 45.1	Cabin	3.075002	1,188.5
	75 57 13.722	328.0	119 08 16.2	299 07 37.4	Bat	3.222923	1,670.8
			187 36 37.3	7 36 46.7	Grass	3.426807	2,671.8
Chestnut, flag in tree, 1898 [1]	39 29 16.09	496.2	51 29 46	231 28 56	Ford 2	3.382212	2,411.1
	75 55 28.86	689.8	98 04 39	278 03 41	Grass	3.337153	2,173.5
Futy's windmill (center), 1898	39 30 08.877	273.8	269 25 24.0	89 26 15.9	Town 2	3.289596	1,948.0
	75 56 18.805	449.3	314 30 44.6	134 30 52.7	Corn	2.627948	424.6
			12 29 22.1	192 29 03.7	Ford 2	3.505850	3,205.2
Yellow house, west chimney, 1898	39 30 02.485	76.6	264 04 38.2	84 05 33.8	Town 2	3.322363	2,100.7
	75 56 24.729	590.8	282 44 51.8	102 45 03.6	Corn	2.658533	455.5
			10 39 09.7	190 38 55.0	Ford 2	3.474743	2,983.6
Windmill, Town Point, 1898	39 29 24.675	761.0	57 43 10.6	237 41 56.3	Ford 2	3.519319	3,306.1
	75 54 50.862	1,215.4	90 45 50.7	270 44 29.3	Grass	3.485761	3,060.3
			120 38 58.9	300 38 11.1	Corn	3.320253	2,090.5
			144 39 29.9	324 29 59.6	Wilson	3.293235	1,964.4
Ryan's flagstaff, Town Point, 1898	39 29 25.767	794.7	57 23 05.6	237 21 50.8	Ford 2	3.523536	3,338.4
	75 54 50.159	1,198.7	90 07 57.6	270 06 35.7	Grass	3.488102	3,076.8
			119 37 09.8	299 36 21.5	Corn	3.319758	2,088.1
			143 31 48.7	323 31 17.9	Wilson	3.289372	1,947.0
Large House, south chimney, 1898	39 30 48.133	1,484.4	302 57 48.8	122 58 59.5	Log	3.499962	3,162.0
	75 57 06.292	150.3	316 22 35.7	136 23 14.0	Corn	3.318781	2,083.4
			354 11 10.0	174 11 21.8	Ford 2	3.639728	4,362.4
Large house, north chimney, 1898	39 30 48.694	1,501.7	303 20 15.1	123 21 25.5	Log	3.499967	3,162.0
	75 57 05.821	139.1	316 55 39.3	136 56 17.3	Corn	3.319791	2,088.3
			354 21 20.2	174 21 31.7	Ford 2	3.641327	4,378.5
Post light, Town Point Wharf, 1898	39 30 10.392	320.5	37 05 14.2	217 05 03.0	Log	2.843983	698.2
	75 54 57.640	1,377.1	64 42 44.3	244 41 27.1	Grass	3.505853	3,205.2
			78 07 20.2	258 06 36.6	Corn	2.223324	167.2
			100 57 38.9	280 57 12.8	Wilson	2.998593	996.8
Barn, south gable, 1898	39 31 04.844	149.4	27 37 44.8	207 37 21.0	Town 2	3.284718	1,926.3
	75 54 19.886	475.0	30 36 44.6	210 36 09.4	Log	3.414688	2,598.3
			51 37 01.4	231 36 11.3	Wilson	3.380043	2,399.1
Elk River boarding house, west chimney, 1898	39 30 16.585	511.5	79 34 30.9	259 33 13.5	Corn	3.470679	2,955.8
	75 54 04.466	106.7	89 58 08.2	269 57 08.3	Wilson	3.351988	2,249.0
			177 44 14.6	357 44 13.7	Field	2.917205	826.4
Iron smoke stack, 1898	39 31 34.015	1,049.0	338 00 39.3	158 00 49.9	Island	3.027447	1,065.2
	75 52 48.884	1,167.6	16 16 25.7	196 16 14.8	Court	3.163736	1,457.9
			66 13 39.3	246 13 13.1	Duck	3.031034	1,074.1
White barn, west gable, 1898	39 31 13.791	425.3	62 18 00.4	242 17 21.0	Court	3.222372	1,668.7
	75 52 04.130	98.9	72 07 10.5	252 05 53.0	Field	3.484965	3,054.7
			95 19 02.8	275 18 08.1	Duck	3.313984	2,060.6
Old barn, northwest gable, 1899	39 31 19.542	602.7	237 56 22.0	57 57 13.2	Trim	3.355632	2,267.9
	75 53 50.809	1,213.6	249 25 03.9	69 25 41.6	Last	3.179588	1,512.1
			268 27 41.6	88 27 54.8	Duck	2.695791	496.4

[1] No check on this position.

Elk River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
White barn, northeast gable, 1899	39 32 00.811	25.0	240 05 15.3	60 06 38.8	Swan	3.557994	3,614.0
	75 53 29.934	714.9	272 46 25.4	92 47 03.3	Trim	3.153875	1,425.2
			296 43 16.5	116 43 24.8	Kid	2.542076	348.4
Old barn, northeast gable, 1899	39 33 04.834	149.1	359 24 48.5	179 24 49.0	Trim	3.31041	2,043.7
	75 52 31.203	745.0	10 08 23.8	190 08 10.8	Last	3.44072	2,758.8
			12 37 05.3	192 36 59.9	Wet	2.96664	926.1
Rock, 1899	39 32 21.793	672.1	55 43 53.4	235 43 25.4	Trim	3.104415	1,271.8
	75 51 46.318	1,106.1	108 23 52.3	288 23 18.4	Wet	3.127982	1,342.7
			209 42 17.1	29 42 34.7	Swan	3.123598	1,329.2
Stone, 1899	39 32 58.100	1,791.8	227 07 20.2	47 07 56.6	Plum	3.269773	1,861.1
	75 52 20.744	495.3	7 06 19.6	187 06 13.5	Trim	3.267200	1,850.1
			33 00 03.9	212 59 51.9	Wet	2.919051	829.9
Flagpole, 1899	39 33 10.309	317.9	58 36 33.9	238 35 47.1	Wet	3.313610	2,058.8
	75 51 26.075	622.5	183 46 40.6	3 46 42.2	Plum	2.950213	891.7
			332 50 06.0	152 50 10.7	Swan	2.584409	384.1
Old chimney, 1899	39 33 09.964	307.3	332 33 30.2	152 33 34.8	Swan	2.571788	373.1
	75 51 25.932	619.1	34 56 05.1	214 55 24.1	Trim	3.429032	2,685.5
			58 54 42.0	238 53 55.1	Wet	3.313063	2,056.2
Sfc, 1899	39 33 50.924	1,570.5	32 58 12.0	212 57 12.0	Trim	3.615923	4,129.7
	75 50 56.222	1,342.1	46 44 18.8	226 43 12.9	Wet	3.530478	3,392.2
			60 58 36.0	240 58 18.5	Plum	2.873798	747.8
Clubhouse, northeast gable, 1899	39 33 39.175	1,208.2	25 52 49.4	205 52 09.3	Trim	3.537612	3,448.4
	75 51 27.301	651.7	28 03 31.5	208 02 37.9	Last	3.631168	4,277.3
			34 19 55.0	214 18 36.9	Duck	3.715835	5,198.0
Clubhouse, flagstaff, 1899	39 33 38.489	1,187.0	25 57 45.9	205 57 05.9	Trim	3.534941	3,427.2
	75 51 27.502	656.5	28 08 09.0	208 07 15.5	Last	3.629036	4,256.3
			41 35 42.2	221 34 56.3	Wet	3.414305	2,596.0
Windmill, Mitchell's, 1899	39 34 40.760	1,257.0	50 16 12.1	230 15 11.1	Plum	3.473006	2,971.7
	75 49 47.878	1,142.7	92 24 35.3	272 23 48.7	Tom	3.242183	1,746.6
			126 36 52.0	306 36 41.4	Fun	2.691678	491.7
War, 1899	39 34 33.319	1,027.6	36 56 06.1	216 55 32.6	Plum	3.320047	2,089.5
	75 50 31.017	740.3	112 56 10.3	292 55 51.2	Tom	2.890346	776.9
			230 31 59.8	50 32 16.7	Fun	2.915082	822.4
Barn cupola, 1899	39 35 16.587	511.5	257 41 08.5	77 42 03.8	Cedar	3.326135	2,119.0
	75 51 51.128	1,220.1	287 40 10.1	107 41 18.1	Fun	3.426975	2,672.9
			310 46 04.6	130 46 36.6	Tom	3.198602	1,579.8
Pile, 1899 [1]	39 34 54.60	1,683.8	224 08 46	44 09 16	Cedar	3.197189	1,574.7
	75 51 10.33	246.5	274 50 43	94 51 25	Fun	3.198303	1,578.7
Elkton, Catholic Church, spire, cross, 1899 [1]	39 36 28.78	887.6	347 24 30	167 24 36	Ton	3.045427	1,110.3
	75 50 02.40	57.3	16 27 08	196 26 54	Cedar	3.267281	1,850.5
Sum, 1899	39 35 01.822	56.2	297 54 25.1	117 54 43.0	Fun	2.881546	761.3
	75 50 32.604	778.1	25 31 58.9	205 31 26.4	Plum	3.451044	2,825.2
			49 37 02.9	229 36 44.8	Tom	2.949155	889.5
Turn, 1899	39 35 02.927	90.3	290 45 29.5	110 45 57.0	Fun	3.041931	1,101.4
	75 50 47.568	1,135.2	11 02 12.0	191 01 52.2	Swan	3.589585	3,886.7
			27 41 54.2	207 41 45.7	Tom	2.838480	689.4
Wetheralls house, east chimney, 1899	39 35 44.316	1,366.7	287 15 20.8	107 15 55.5	Cedar	3.133500	1,359.9
	75 51 18.792	448.4	313 11 46.7	133 12 34.1	Fun	3.386471	2,434.8
			48 12 07.0	228 12 02.3	Hill	2.374369	236.8
Elkton, M. E. Church, spire, 1899	39 36 34.185	1,054.3	31 15 57.7	211 15 02.2	Tom	3.602759	4,006.4
	75 49 33.869	808.0	31 49 35.9	211 49 03.7	Cedar	3.358878	2,285.0
			57 41 00.9	237 39 49.3	Hill	3.501237	3,171.3
Elkton, schoolhouse, flagpole, 1899	39 36 16.333	503.7	326 45 21.2	146 45 33.5	Ton	2.922556	836.7
	75 50 11.483	273.9	12 27 48.6	192 27 40.4	Cedar	3.153655	1,424.5
			57 17 07.7	237 16 20.1	Hill	3.326059	2,118.6
Brick stack, paper factory at Elkton, 1899	39 36 18.148	559.7	20 34 44.5	200 34 30.0	Cedar	3.189071	1,545.5
	75 50 01.601	38.2	25 49 00.3	205 48 22.5	Tom	3.512551	3,255.0
			59 14 48.6	239 13 54.7	Hill	3.370819	2,348.7
Scaffold signal, 1899 [1]	39 36 47.68	1,470.4	67 36 20	247 34 03	Hill	3.743467	5,539.5
	75 47 51.54	1,229.5	73 01 27	253 00 03	Elk	3.518567	3,300.4
Blacksmith stack, ship yard, 1899	39 35 49.365	1,522.4	261 11 45.9	81 12 08.7	Ton	2.935650	862.3
	75 50 27.973	667.4	351 15 04.1	171 15 06.4	Cedar	2.752669	565.8
			77 17 06.4	257 16 29.3	Hill	3.153516	1,424.0

[1] No check on this position.

Back Creek

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance Log (meters)	Distance Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Mud, 1898	39 31 43.048	1,327.6	20 39 23.3	200 39 17.4	Creek	2.794129	622.5
	75 52 08.309	198.5	24 14 51.6	204 14 36.4	Island	3.042650	1,103.2
			56 36 17.3	236 35 56.9	Back	2.962636	917.6
Rand, 1898	39 31 44.473	1,371.5	46 51 15.2	226 50 57.4	Creek	2.961883	916.0
	75 51 49.523	1,182.8	65 40 58.3	245 40 26.0	Back	3.124847	1,333.1
			84 24 24.3	264 24 12.4	Mud	2.654015	450.8
Two, 1898	39 31 56.746	1,750.0	43 43 44.9	223 43 35.2	Rand	2.719140	523.8
	75 51 34.364	820.7	45 43 08.9	225 42 41.4	Creek	3.158135	1,439.2
			59 32 24.2	239 31 42.2	Back	3.262295	1,829.3
			62 28 48.5	242 28 26.9	Mud	2.961033	914.2
Bean, 1898	39 31 45.883	1,415.0	86 39 20.5	266 39 00.7	Rand	2.871903	744.6
	75 51 18.401	439.5	131 18 36.1	311 18 26.0	Two	2.705454	507.5
Hard, 1898	39 31 56.040	1,728.3	61 31 03.7	241 30 48.3	Bean	2.817448	656.8
	75 50 54.228	1,295.1	74 53 19.6	254 52 44.4	Rand	3.136063	1,367.9
			91 18 16.6	271 17 51.1	Two	2.981715	958.8
Fence, 1898	39 31 49.175	1,516.6	81 28 34.4	261 28 16.3	Bean	2.835608	684.9
	75 50 50.042	1,195.2	84 10 36.5	264 09 58.6	Rand	3.154720	1,428.0
			102 26 33.8	282 26 05.6	Two	3.035013	1,084.0
			154 43 18.8	334 43 16.1	Hard	2.369459	234.1
Ella, 1898	39 31 57.972	1,787.9	71 16 00.7	251 15 39.4	Fence	2.926655	844.6
	75 50 16.551	395.3	86 12 53.2	266 12 29.2	Hard	2.955104	901.8
Rot, 1898	39 31 49.787	1,535.4	88 40 09.6	268 39 49.0	Fence	2.908721	810.4
	75 50 16.117	384.9	101 57 58.1	281 57 33.8	Hard	2.968667	930.4
			177 39 01.6	357 39 01.3	Ella	2.402511	252.6
No, 1898	39 31 53.846	1,660.6	78 41 40.8	258 41 24.1	Rot	2.805162	638.5
	75 49 49.901	1,191.8	84 16 40.3	264 16 02.0	Fence	3.159426	1,443.5
			101 18 27.5	281 18 10.5	Ella	2.812277	649.0
Dumb, 1898	39 31 59.978	1,849.7	62 53 10.8	242 53 01.0	No	2.617993	414.9
	75 49 34.436	822.4	72 28 47.1	252 28 20.6	Rot	3.018655	1,043.9
			86 28 57.7	266 28 30.9	Ella	3.003326	1,007.7
City, 1898	39 31 50.842	1,568.0	99 36 38.5	279 36 23.9	No	2.744172	554.8
	75 49 26.995	644.7	100 31 39.9	280 31 08.3	Ella	3.080540	1,203.8
			147 45 30.1	327 45 25.3	Dumb	2.522577	333.1
Peake, 1898	39 31 59.609	1,838.3	39 03 31.3	219 03 25.5	City	2.541817	348.2
	75 49 17.808	425.3	91 38 26.3	271 38 15.7	Dumb	2.599078	397.3
Ches, 1898	39 31 54.100	1,668.4	81 47 46.0	261 47 27.4	City	2.847564	704.0
	75 48 57.820	1,380.9	109 35 29.0	289 35 16.2	Peake	2.704749	506.7
Blank, 1898	39 31 43.459	1,340.3	110 31 24.9	290 31 08.7	City	2.812568	649.5
	75 49 01.526	36.4	122 57 06.3	302 56 45.3	Dumb	2.971563	936.6
			142 01 13.3	322 01 02.9	Peake	2.800633	631.9
			195 05 44.4	15 05 46.8	Ches	2.531349	339.9
Lock, 1898	39 31 43.111	1,329.5	91 14 18.9	271 14 05.6	Blank	2.696335	497.0
	75 48 40.723	972.6	119 52 40.8	299 52 17.1	Peake	3.009210	1,021.4
			129 41 34.1	309 41 23.2	Ches	2.724802	530.6
Supplementary points							
Chesapeake City, Catholic Church, spire, cross, 1898.	39 31 53.724	1,656.8	9 09 20.2	189 09 18.8	Lock	2.520498	331.5
	75 48 38.514	919.8	60 03 38.3	240 03 23.6	Blank	2.802258	634.2
			91 26 37.9	271 26 25.6	Ches	2.663900	461.2
Post light, Randall's wharf, 1898	39 31 48.929	1,509.0	347 48 14.7	167 48 15.5	Rand	2.147980	140.6
	75 51 50.767	1,212.5	39 53 52.0	219 53 35.0	Creek	2.998089	995.6
			59 55 18.6	239 54 47.1	Back	3.136559	1,369.5
			66 35 36.4	246 35 25.3	Mud	2.659491	456.6
Flag on shanty, 1898	39 31 28.588	881.7	85 51 52.0	265 51 30.2	Back	2.913397	819.2
	75 52 06.173	147.4	173 28 28.9	353 28 27.5	Mud	2.652111	448.9
			219 04 01.0	39 04 11.5	Rand	2.800030	631.0
Flag, hydrographic signal "A," 1898	39 31 52.452	1,617.6	281 49 21.8	101 49 47.6	Bean	2.994990	988.5
	75 51 58.913	1,407.0	257 16 12.2	77 16 27.9	Two	2.778924	601.1
			317 39 11.3	137 39 17.3	Rand	2.522353	332.9
Flag, hydrographic signal "B," 1898	39 31 57.952	1,787.2	9 45 02.7	189 45 01.0	Bean	2.577115	377.7
	75 51 15.723	375.5	62 45 24.7	242 45 03.2	Rand	2.958078	908.0
			85 13 32.6	265 13 20.8	Two	2.650050	446.7
House, east chimney, 1898[1]	39 32 14.53	448.0	320 37 01	140 37 12	Peake	2.774680	595.2
	75 49 33.62	802.9	2 28 47	182 28 46	Dumb	2.652370	449.1

[1] No check on this position.

Back Creek—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
Windmill (Pencil's), 1898	39 32 13.583	418.9	292 00 41.3	112 01 09.7	Peake	3.060524	1,149.5
	75 50 02.434	58.1	302 06 17.4	122 06 35.2	Dumb	2.897273	789.4
			24 00 13.2	204 00 04.5	Rot	2.904896	803.3
			56 29 50.7	236 29 21.4	Fence	3.134672	1,363.6
Windmill, near Chesapeake City, 1898	39 32 01.637	50.5	23 24 46.5	203 24 40.0	Lock	2.794208	622.6
	75 48 30.365	725.2	53 00 45.1	233 00 25.3	Blank	2.969300	931.8
			70 28 57.7	250 28 40.3	Ches	2.842406	695.7
			86 50 37.9	266 50 07.7	Peake	3.054908	1,134.8
Chesapeake City, high-school cupola (finial), 1898.	39 31 38.418	1,184.8	143 01 46.3	323 01 43.1	Blank	2.289077	194.6
	75 48 56.627	1,352.5	176 37 43.0	356 37 42.2	Ches	2.685256	484.5
			249 08 29.6	69 08 39.7	Lock	2.609044	406.5
Chesapeake City, red windmill, 1898	39 31 42.475	1,309.9	111 16 21.1	291 16 19.0	Blank	1.922627	83.7
	75 48 58.261	1,391.5	181 41 04.3	1 41 04.6	Ches	2.554711	358.7
			267 18 53.9	87 19 05.1	Lock	2.622568	419.3
Chesapeake City, iron smokestack, 1898	39 31 38.964	1,201.6	99 08 07.0	279 07 44.0	Blank	2.941197	873.4
	75 48 25.422	607.2	103 59 32.3	283 58 53.1	City	3.180553	1,515.5
			116 58 29.9	296 57 56.5	Peake	3.147307	1,403.8
Chesapeake City, spire, 1898	39 31 49.059	1,513.0	62 45 58.6	242 45 49.2	Lock	2.602906	400.8
	75 48 25.802	616.2	78 33 40.0	258 33 17.3	Blank	2.939769	870.5
			92 09 37.4	272 08 58.5	City	3.165091	1,462.5
			104 41 03.2	284 40 30.1	Peake	3.108544	1,283.9

Bohemia River

Principal points							
Bo, 1898	39 29 07.826	241.4	58 04 10.1	238 03 16.9	Ford 2	3.372261	2,356.5
	75 55 24.133	576.7	103 53 27.9	283 52 27.6	Grass	3.367951	2,333.2
Pete, 1898	39 28 26.630	821.3	133 51 41.6	313 50 50.9	Grass	3.421899	2,641.8
	75 55 39.205	937.1	167 18 10.7	347 17 53.6	Corn	3.466456	2,927.2
			195 49 44.2	15 49 53.8	Bo	3.120765	1,320.6
Mia, 1898	39 28 33.581	1,035.6	83 38 21.7	263 37 30.6	Pete	3.286213	1,932.9
	75 54 18.835	450.2	112 54 45.3	292 53 03.5	Grass	3.618363	4,153.0
			124 05 36.5	304 04 55.0	Bo	3.275167	1,884.4
			135 51 28.9	315 50 20.7	Corn	3.565985	3,681.2
He, 1898	39 29 08.322	256.7	342 26 24.7	162 26 33.7	Mia	3.050672	1,123.8
	75 54 33.020	789.1	50 54 01.3	230 53 19.2	Pete	3.309308	2,038.5
Stony, 1899	39 28 44.359	1,368.0	78 45 58.1	258 45 13.6	Mia	3.231799	1,705.3
	75 53 08.855	211.6	110 10 49.7	290 09 56.2	He	3.331008	2,142.9
Long, 1899	39 28 18.335	565.5	106 56 34.3	286 55 53.2	Mia	3.207883	1,613.9
	75 53 14.242	340.4	129 18 57.0	309 18 06.9	He	3.386216	2,433.4
			189 06 47.7	9 06 51.1	Stony	2.909999	812.8
Par, 1899	39 28 26.362	813.0	72 14 33.6	252 14 13.1	Long	2.909303	811.5
	75 52 41.908	1,001.7	95 29 51.4	275 28 49.8	Mia	3.366870	2,327.4
			115 59 20.9	295 58 10.3	He	3.470423	2,954.1
			130 45 20.1	310 45 03.0	Stony	2.929530	850.2
Old, 1899	39 27 59.152	1,824.2	125 31 35.1	305 31 13.1	Long	3.007813	1,018.2
	75 52 39.576	946.1	176 11 54.7	356 11 53.2	Par	2.924784	841.0
Road, 1899	39 27 55.679	1,717.1	96 21 37.4	276 21 11.8	Old	2.985590	967.4
	75 51 59.357	1,418.9	111 19 42.1	291 18 54.5	Long	3.283655	1,921.6
			132 56 09.1	312 55 42.0	Par	3.142767	1,389.2
Free, 1899	39 27 17.770	548.0	138 57 01.3	318 56 31.7	Old	3.228498	1,692.4
	75 51 53.082	1,269.1	172 41 19.5	352 41 15.5	Road	3.071400	1,178.7
Green, 1899	39 27 25.617	790.0	68 08 56.4	248 08 40.4	Free	2.812993	650.1
	75 51 27.844	665.7	121 06 02.0	301 05 16.4	Old	3.301586	2,002.6
			140 54 20.5	320 54 00.5	Road	3.077226	1,194.6
Supplementary points							
Boathouse, east gable, 1899	39 29 03.922	121.0	284 17 53.1	104 18 56.0	Stony	3.387638	2,441.4
	75 54 47.839	1,143.3	302 08 20.1	122 09 19.6	Long	3.421955	2,642.1
			323 27 52.9	143 28 11.3	Mia	3.066141	1,104.5
Boathouse, southwest gable, 1898[1]	39 29 03.83	118.0	249 01 49	69 01 59	He	2.588206	387.4
	75 54 38.16	911.9	323 04 40	143 04 59	Mia	3.066959	1,166.7
Bend, 1899	39 29 11.828	364.8	299 24 31.6	119 25 11.6	Stony	3.236757	1,724.9
	75 54 11.724	280.2	315 29 31.4	135 30 30.0	Old	3.497181	3,141.8
			320 12 26.8	140 13 03.4	Long	3.331801	2,146.8
			8 11 56.8	188 11 52.3	Mia	3.076165	1,191.7

[1] No check on this position.

Bohemia River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
Red and white flag (in tree), 1899	39 29 12.367	381.4	313 06 46.2	133 07 10.7	Stony	3.101662	1,263.8
	75 53 47.455	1,134.1	334 31 29.1	154 31 50.2	Long	3.266169	1,843.7
			32 05 23.9	212 05 03.9	Mia	3.149778	1,411.8
			83 28 07.0	263 27 38.0	He	3.039821	1,096.0
Red flag (on fish weir), 1899	39 29 02.848	87.8	302 34 40.9	122 35 04.6	Stony	3.024830	1,058.8
	75 53 46.187	1,103.8	40 50 49.6	220 50 28.8	Mia	3.076680	1,193.1
			98 34 54.5	278 34 24.7	He	3.053807	1,131.9
Red flag, 1899	39 28 57.989	1,788.4	358 14 06.4	178 14 07.4	Long	3.087600	1,223.5
	75 53 15.818	378.0	63 27 01.0	243 26 20.9	Mia	3.226277	1,683.7
			99 48 21.5	279 47 32.4	He	3.272382	1,872.3
White flag, 1899	39 28 38.455	1,186.0	339 22 05.9	159 22 18.0	Old	3.112316	1,295.1
	75 52 58.666	1,402.2	30 57 50.7	210 57 40.8	Long	2.859510	723.6
			85 31 15.9	265 30 24.9	Mia	3.283790	1,922.2
In, 1899	39 28 20.396	629.0	140 24 20.5	320 23 48.0	He	3.282892	1,918.2
	75 53 41.863	1,000.7	226 52 06.0	46 52 27.0	Stony	3.033826	1,081.0
			262 40 42.4	82 41 20.5	Par	3.159814	1,444.8
			275 29 45.1	95 30 02.7	Long	2.821693	663.3
Steel, 1899	39 27 35.934	1,108.2	141 39 15.0	321 38 59.9	Old	2.960474	913.0
	75 52 15.880	379.6	212 58 07.9	32 58 18.4	Road	2.860828	725.8
			315 46 57.9	135 47 12.4	Free	2.892975	781.6
Little, 1899[1]	39 27 47.47	1,463.9	143 38 48	323 38 41	Old	2.650732	447.4
	75 52 28.48	680.8	165 01 12	345 01 04	Par	3.094010	1,241.7
Windmill, Georges Point, 1899	39 27 27.759	856.1	75 47 51.9	255 47 19.6	Free	3.098730	1,255.2
	75 51 02.185	52.2	112 35 15.2	292 34 13.3	Old	3.401661	2,521.5
			116 18 16.6	296 16 52.7	Long	3.545085	3,521.2

Principal points												
Grove Point 2, 1898	39	23	16.803	518.2	73	41	08.0	253	38	27.4	Howell Point 2	3.800164	6,312.0
	76	02	25.105	600.8	105	04	35.8	285	00	49.2	Stephenson 2	3.946846	8,848.0
Price, 1898	39	22	13.665	421.4	118	47	03.8	298	43	38.7	Stephenson 2	3.945547	8,821.6
	76	02	59.040	1,413.3	159	14	42.4	339	13	29.2	Bear 2	3.861343	7,786.5
					173	33	44.8	353	33	18.8	Sandy Point 2	3.935290	8,615.7
					202	38	24.5	22	38	46.0	Grove Point 2	3.324227	2,109.7
Katz, 1898	39	23	08.551	263.7	45	21	58.0	225	21	12.6	Price	3.381821	2,408.9
	76	01	47.429	1,135.1	77	41	48.9	257	38	44.4	Howell Point 2	3.852677	7,123.2
Harper, 1898	39	21	52.731	1,626.2	102	12	37.1	282	11	18.0	Price	3.485030	3,055.1
	76	00	54.298	1,299.8	140	02	03.6	320	01	06.0	Grove Point 2	3.529332	3,383.2
					151	27	49.0	331	27	15.3	Katz	3.425156	2,661.7
Burley, 1898	39	22	57.529	1,774.1	45	20	25.9	225	19	32.3	Harper	3.453718	2,842.6
	75	59	29.838	714.1	74	54	03.7	254	51	51.0	Price	3.714904	5,186.9
					83	27	59.1	263	23	27.3	Howell Point 2	4.013687	10,320.2
					95	54	20.0	275	52	52.7	Katz	3.519884	3,310.4
White, 1898	39	22	11.13	343.2	91	01	45	270	59	47	Price	3.64746	4,441
	75	59	53.59	1,282.8	201	38	21	21	38	36	Burley	3.18740	1,540
Turner, 1898	39	21	46.78	1,442.7	112	09	46	292	08	57	White	3.29932	1,992
	75	58	36.52	874.4	149	40	07	329	39	33	Burley	3.40283	2,528
Ordinary, 1898	39	22	22.92	706.8	74	46	07	254	45	32	White	3.14048	1,382
	75	58	57.89	1,385.8	144	22	12	324	21	52	Burley	3.11852	1,314
Cassidys Wharf, 1898	39	22	42.39	1,370.3	36	30	46	216	30	12	Turner	3.32915	2,134
	75	57	43.49	1,040.9	71	22	12	251	21	25	Ordinary	3.27401	1,879
Shrewsbury Hill, 1898	39	22	00.64	19.7	64	01	40	244	01	17	Turner	2.93946	976
	75	57	59.87	1,433.2	116	19	20	296	18	43	Ordinary	3.19019	1,549
End, 1898	39	22	14.57	449.3	291	57	59	111	58	27	Shrewsbury Hill	3.06002	1,148
	75	58	44.35	1,061.6	347	39	54	167	39	59	Turner	2.94314	877
Supplementary points													
Boathouse, flagstaff, 1898	39	22	15.14	466.9	177	42	04	357	42	03	Burley	3.11684	1,309
	75	59	27.68	662.6	251	24	19	71	24	38	Ordinary	2.87635	752
Chim, 1898	39	22	36.66	1,130.6	82	53	50	262	51	20	Price	3.75734	5,719
	75	59	01.98	47.4	57	28	38	237	28	05	White	3.16598	1,465

[1] No check on this position.

Sassafras River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
Freeman, 1898	39 21 45.74	1,410.6	164 12 26	344 12 09	Burley	3.36199	2,301
	75 59 03.70	88.6	186 54 44	6 54 48	Ordinary	3.06256	1,155
Bight, 1898	39 22 44.18	1,362.5	327 23 20	147 23 43	Shrewsbury Hill	3.20249	1,594
	75 58 35.75	855.7	0 35 47	180 35 47	Turner	3.24802	1,770
Witters Point, 1898	39 22 19.42	598.9	358 31 10	178 31 10	Shrewsbury Hill	2.76278	579
	75 58 00.48	11.5	40 35 52	220 35 29	Turner	3.12248	1,326
Robertson, 1898	39 22 49.17	1,516.4	49 13 30	229 12 31	Turner	3.46918	2,946
	75 57 03.35	80.2	77 43 50	257 43 25	Cassidys Wharf	2.99268	983
Olaff, 1898	39 22 18.30	564.4	59 20 17	239 19 53	Shrewsbury Hill	3.02856	1,068
	75 57 21.49	514.4	144 40 11	324 39 57	Cassidys Wharf	2.95928	910
Point, 1898	39 21 45.80	1,412.5	169 42 32	349 42 20	Katz	3.41404	2,594
	76 01 28.09	672.5	231 58 05	51 59 20	Burley	3.55536	3,592
Bee, 1898	39 23 10.28	317.0	319 41 05	139 41 46	White	3.37875	2,392
	76 00 58.22	1,393.4	58 53 57	238 52 40	Price	3.52867	3,378
Thatch, 1898	39 23 08.71	268.6	327 32 45	147 33 15	White	3.32310	2,104
	76 00 40.76	975.5	62 52 10	242 50 42	Price	3.57057	3,720
Shed, 1898	39 23 04.14	127.7	10 04 32	190 04 24	White	3.22017	1,660
	75 59 41.45	992.0	71 48 25	251 46 20	Price	3.69718	4,979
Box, 1898	39 23 11.22	346.0	298 49 48	118 51 17	White	3.58445	3,841
	76 02 14.15	338.6	31 12 48	211 12 20	Price	3.31695	2,075
Down, 1898	39 21 54.72	1,687.5	185 28 45	5 28 51	Katz	3.35941	2,288
	76 01 56.58	1,354.4	260 13 58	80 15 16	White	3.47532	2,988
Mid, 1898	39 22 04.93	152.0	247 52 04	67 53 50	Burley	3.63439	4,309
	76 02 16.64	398.4	266 47 20	86 48 51	White	3.53528	3,430
Bluff, 1898	39 22 04.94	152.3	93 41 02	273 39 10	Price	3.62504	4,217
	76 00 03.26	78.0	206 14 13	26 14 34	Burley	3.25731	1,808

Gunpowder River

Principal points													
Spry Island 2, 1898	39	17	42.808	1,320.1	278	42	50.8	98	45	13.8	Pooles Island 2	3.738407	5,475.3
	76	19	32.178	771.1	33	53	09.9	213	52	03.9	Millers Island	3.651711	4,484.5
Rickett Point 2, 1898	39	18	04.380	135.1	297	06	08.9	117	07	23.1	Pooles Island 2	3.516400	3,284.0
	76	17	48.333	1,158.1	48	40	48.0	228	38	36.2	Millers Island	3.822434	6,644.1
					75	02	27.8	255	01	22.0	Spry Island 2	3.410902	2,575.7
Carroll Point, 1898	39	18	46.179	1,424.1	302	53	46.7	122	54	39.4	Rickett Point 2	3.375276	2,372.9
	76	19	11.485	275.1	14	14	16.2	194	14	03.1	Spry Island 2	3.304532	2,016.2
					27	49	34.6	207	48	15.4	Millers Island	3.807477	6,419.1
Days Point, 1898	39	19	44.239	1,364.3	356	27	20.9	176	27	25.9	Rickett Point 2	3.489312	3,085.4
	76	17	56.294	1,348.3	45	10	36.9	225	09	49.2	Carroll Point	3.404781	2,539.7
Graces Point, 1898	39	20	09.199	283.7	285	24	01.2	105	25	15.1	Days Point	3.461898	2,896.7
	76	19	52.889	1,266.6	322	12	28.4	142	13	47.3	Rickett Point 2	3.687553	4,870.3
					338	49	16.9	158	49	43.1	Carroll Point	3.438639	2,745.6
Maxwell Point 2, 1898	39	21	25.060	772.8	326	23	23.6	146	24	18.3	Days Point	3.572059	3,733.0
	76	19	22.566	540.3	17	14	44.6	197	14	25.4	Graces Point	3.389086	2,449.5
Graces Quarter 2, 1898	39	20	51.006	1,573.0	232	11	08.8	52	11	44.6	Maxwell Point 2	3.233784	1,713.1
	76	20	19.092	457.2	301	02	20.1	121	03	50.6	Days Point	3.601171	3,991.8
					334	02	43.4	154	03	00.0	Graces Point	3.156507	1,433.9
					337	10	48.8	157	11	31.6	Carroll Point	3.620782	4,176.2
Oliver, 1898	39	22	22.725	700.8	322	56	31.0	142	57	06.5	Maxwell Point 2	3.347964	2,228.3
	76	20	18.651	446.4	00	12	50.8	180	12	50.5	Graces Quarter 2	3.451560	2,828.5
Cadwalader, 1898	39	23	02.238	69.0	26	35	48.4	206	35	08.6	Maxwell Point 2	3.525221	3,351.4
	76	18	19.897	476.2	35	11	48.6	215	10	33.0	Graces Quarter 2	3.694767	4,951.8
					66	48	18.8	246	47	03.5	Oliver	3.490316	3,092.5
Piney Point 2, 1898	39	23	18.544	571.9	281	45	36.4	101	46	40.4	Cadwalader	3.391887	2,465.4
	76	20	00.748	17.9	345	21	39.2	165	22	03.4	Maxwell Point 2	3.558359	3,617.1
					13	58	48.2	193	58	36.9	Oliver	3.248938	1,773.9
Taylor, 1898	39	23	32.731	1,009.4	277	45	31.6	97	46	56.6	Piney Point 2	3.509099	3,235.9
	76	22	14.727	352.4	279	28	43.5	99	31	12.5	Cadwalader	3.755719	5,698.0
					307	50	29.9	127	51	43.6	Oliver	3.546337	3,518.3
Supplementary points													
Weir, 1898	39	18	15.736	485.3	231	00	49.0	51	02	18.2	Days Point	3.637426	4,339.4
	76	20	17.117	410.1	275	35	49.5	95	37	23.7	Rickett Point 2	3.554139	3,582.1
					313	18	58.0	133	19	26.4	Spry Island 2	3.170288	1,480.1
					16	42	50.8	196	42	13.2	Millers Island	3.694387	4,947.5

Gunpowder River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
White Oak, 1898	39 19 26.175	807.2	193 26 44.1	13 27 07.3	Maxwell Point 2	3.576303	3,769.7
	76 19 59.176	1,417.5	259 16 18.1	79 17 36.0	Days Point	3.476484	2,995.6
			308 48 42.9	128 50 05.8	Rickett Point 2	3.604604	4,023.5
			317 11 16.8	137 11 47.0	Carroll Point	3.225625	1,681.2
			348 31 38.1	168 31 55.1	Spry Island 2	3.512238	3,252.7
Graces Quarter, house chimney, 1898	39 20 55.727	1,718.6	218 14 04.1	38 15 25.6	Cadwalader	3.696156	4,967.7
	76 20 28.357	679.0	240 07 40.2	60 08 21.9	Maxwell Point 2	3.259238	1,816.5
			303 16 49.5	123 16 55.4	Graces Quarter 2	2.423824	265.4
Graces Quarter, near cupola, 1898	39 21 00.882	27.2	185 56 10.9	5 56 17.9	Oliver	3.404414	2,537.5
	76 20 29.615	709.1	219 40 20.6	39 41 42.9	Cadwalader	3.636906	4,863.0
			245 04 53.3	65 05 35.8	Maxwell Point 2	3.247992	1,770.1
Maxwell house, chimney, 1898 [1]	39 21 28.58	881.4	55 44 49	235 44 04	Graces Quarter 2	3.313485	2,058.2
	76 19 08.05	192.7	134 39 34	314 38 49	Oliver	3.375843	2,376.0
Maxwell barn, cupola, 1898	39 21 27.411	845.3	134 59 48.9	314 59 03.7	Oliver	3.382528	2,412.8
	76 19 07.370	176.5	159 33 33.9	339 33 00.0	Piney Point 2	3.563204	3,657.7
			201 13 53.0	21 14 23.1	Cadwalader	3.496574	3,137.4
Petry's house, west chimney, 1898 [1]	39 22 25.20	777.1	251 44 44	71 46 16	Cadwalader	3.562168	3,649.0
	76 20 44.69	1,069.7	276 58 43	96 59 00	Oliver	2.797914	627.9
Hydrographic signal, 1898 [1]	39 23 17.99	554.8	310 32 30	130 32 45	Cadwalader	2.873436	747.2
	76 18 43.62	1,043.9	26 45 56	206 44 55	Graces Quarter 2	3.705548	5,076.3
Rembolt's house, east chimney, 1898 [1]	39 23 15.26	470.6	348 38 14	168 38 16	Cadwalader	2.612234	409.5
	76 18 23.27	556.9	59 36 49	239 35 36	Oliver	3.505380	3,201.7
Rembolt's house, west chimney, 1898	39 23 15.280	471.2	347 05 37.0	167 05 39.4	Cadwalader	2.615544	412.6
	76 18 23.748	568.4	31 50 01.4	211 48 48.2	Graces Quarter 2	3.719033	5,236.4
			59 29 52.4	239 28 39.5	Oliver	3.504084	3,192.2
Railroad draw, 1898	39 23 20.718	638.9	273 24 17.4	93 24 47.2	Piney Point 2	3.052226	1,127.8
	76 20 47.790	1,143.6	279 08 03.3	99 09 37.1	Cadwalader	3.554486	3,585.0
			330 13 32.2	150 14 26.2	Maxwell Point 2	3.613730	4,108.9
Fox Hill house, chimney, 1898 [1]	39 23 47.10	1,452.5	277 21 24	97 24 25	Piney Point 2	3.836031	6,855.4
	76 24 44.85	1,073.2	278 30 28	98 34 33	Cadwalader	3.969208	9,315.5
Litchfield house, chimney, 1898 [1]	39 23 19.99	616.5	9 03 57	189 03 57	Piney Point 2	1.65572	45.26
	76 20 00.45	10.8					
Taylor Mount, barn cupola, 1898 [1]	39 23 41.36	1,275.5	281 03 27	101 05 03	Piney Point 2	3.564054	3,664.8
	76 22 31.04	742.8	281 19 46	101 22 25	Cadwalader	3.787470	6,130.1
Bradshaw, Catholic Church, spire, 1896 [1]	39 25 56.12	1,730.7	76 09 39	256 04 47	Finlay	4.054190	11,329.0
	76 23 48.73	1,165.4	249 44 00	69 48 24	Osbornes Ruin	4.025206	10,597.6

Chesapeake Bay, Pooles Island to south end of Kent Island

Principal points						
Marcy 2, 1898	38 51 12.960	399.6	233 18 15.7	53 19 17.5	Dutchman 2	3.471753	2,963.1
	76 32 14.138	340.9	269 32 59.4	89 34 29.3	Cutts 2	3.538651	3,456.6
Bloody 2, 1898	38 50 50.013	1,542.1	5 00 20.6	185 00 00.3	Sinker	3.951786	8,949.2
	76 22 47.239	1,139.4	31 04 50.4	210 59 17.3	Ill	4.396698	24,928.6
			57 27 52.1	237 20 54.1	Fairhaven 2	4.281236	19,108.9
Horseshoe 2, 1898	38 50 11.850	365.4	262 58 06.5	83 02 15.9	Bloody 2	3.984994	9,660.4
	76 29 24.820	598.2	311 15 08.0	131 18 56.9	Sinker	4.069241	11,728.5
			9 09 48.9	189 08 24.7	Ill	4.310560	20,443.7
Thomas 2, 1898	38 54 29.087	896.9	316 43 32.9	136 46 18.4	Bloody 2	3.967314	9,275.0
	76 27 10.888	262.4	22 09 33.9	202 08 09.8	Horseshoe 2	3.932687	8,564.2
Price 2, 1898	38 54 32.849	1,012.9	9 41 29.7	189 40 59.2	Bloody 2	3.843290	6,970.9
	76 21 58.576	1,411.3	53 14 10.8	233 09 30.7	Horseshoe 2	4.128234	13,434.9
			89 08 38.7	269 05 22.6	Thomas 2	3.876556	7,525.9
Hackett 2, 1898	38 59 10.115	311.9	328 48 06.6	148 50 21.6	Price 2	3.999719	9,993.5
	76 25 33.426	804.5	15 09 44.6	195 08 43.3	Thomas 2	3.953188	8,978.2
Broad, 1898	38 58 18.244	562.6	52 53 24.2	232 49 20.8	Thomas 2	4.068295	11,702.9
	76 20 43.545	1,048.3	102 56 11.9	282 53 09.6	Hackett 2	3.854829	7,158.6
Sandy Point Lighthouse, 1898	39 00 57.191	1,763.7	133 04 17.2	313 00 28.3	Linstid	4.077472	11,952.9
	76 23 05.487	132.0	219 02 24.9	39 09 45.3	Clough	4.424822	26,596.3
			325 06 50.3	145 08 19.6	Broad	3.776290	5,974.3
			352 15 12.8	172 15 54.8	Price 2	4.077761	11,960.8
			26 17 46.0	206 15 11.8	Thomas 2	4.125379	13,346.9
			47 09 57.3	227 08 24.2	Hackett 2	3.686226	4,855.4

[1] No check on this position.

Chesapeake Bay, Pooles Island to south end of Kent Island—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Ring, 1898	39 00 41.974	1,294.4	23 08 14.3	203 07 24.8	Broad	3.683015	4,819.6
	76 19 24.876	598.5	72 19 07.8	252 15 15.8	Hackett 2	3.968955	9,310.1
			95 04 17.2	275 01 58.3	Sandy Point Lighthouse	3.726594	5,328.4
Lacey, 1898	39 02 08.616	265.7	60 41 37.3	240 37 21.1	Hackett 2	4.050498	11,233.1
	76 18 46.440	1,117.0	67 46 44.2	247 40 00.2	Statehouse dome	4.222354	16,686.1
			70 33 21.7	250 30 38.8	Sandy Point Lighthouse	3.820144	6,609.1
			90 56 09.9	270 52 27.8	Magothy	3.928848	8,488.8
			98 12 51.4	278 08 08.5	Persimmon 2	4.037890	10,911.6
			115 47 27.9	295 43 14.7	Peach Hill	4.030673	10,731.8
			138 43 42.9	318 39 29.5	Bodkin Lighthouse	4.165480	14,637.9
			193 44 58.0	13 46 14.2	Swan Point 3	4.086795	12,212.2
			240 00 04.9	60 00 28.3	Love Point 2	3.010910	1,025.4
White, 1898	39 01 37.823	1,166.2	57 02 33.1	236 56 55.3	Gram	4.187783	15,409.3
	76 19 05.756	138.5	64 00 26.0	243 56 22.0	Hackett 2	4.016218	10,380.5
			70 18 31.8	250 12 00.0	Annapolis Statehouse dome	4.201736	15,912.4
			77 45 47.6	257 43 16.7	Sandy Point Lighthouse	3.770968	5,901.6
			97 43 15.7	277 39 45.8	Magothy	3.908300	8,096.6
			121 24 58.1	301 20 57.1	Peach Hill	4.032561	10,778.6
			142 26 06.7	322 22 05.5	Bodkin Lighthouse	4.178307	15,076.7
			194 43 19.1	14 44 47.5	Swan Point 3	4.122115	13,246.9
			206 04 09.7	26 04 21.9	Lacey	3.024132	1,057.1
Magothy, 1898	39 02 12.964	399.8	165 23 54.0	345 23 22.9	Peach Hill	3.670296	4,680.5
	76 24 39.344	946.3	173 48 07.0	353 47 36.0	Bodkin Lighthouse	4.038449	10,925.7
			267 39 13.7	87 43 19.2	Love Point 2	3.972352	9,383.2
Welch, 1898	39 04 04.362	134.5	221 27 31.8	41 27 57.1	Peach Hill	3.164341	1,460.0
	76 26 08.647	207.9	284 49 01.8	104 54 03.7	Love Point 2	4.076255	11,919.4
			327 58 57.9	147 59 54.2	Magothy	3.607576	4,051.1
Peach Hill, 1896	39 04 39.840	1,228.6	103 43 39.3	283 41 20.3	Linstid	3.736547	5,451.9
	76 25 28.433	683.5	179 59 40.5	359 59 40.5	Bodkin Lighthouse	3.801574	6,332.5
			240 08 26.7	60 13 56.5	Swan Point 3	4.160723	14,478.5
			309 57 50.6	130 01 39.6	Ring	4.057378	11,412.4
			333 23 31.7	153 25 01.7	Sandy Point Lighthouse	3.885267	7,678.3
North Point Lower Lighthouse, 1842	39 11 39.226	1,209.6	267 42 03.8	87 51 35.2	Clough	4.336667	21,710.4
	76 26 31.393	753.4	18 00 14.9	197 58 35.5	Linstid	4.087758	12,239.3
Bodkin Lighthouse, 1842	39 08 05.190	160.0	167 06 42.4	347 06 02.7	North Point Lower Lighthouse	3.830664	6,771.2
	76 25 28.457	683.4	249 41 47.1	69 50 38.3	Clough	4.332838	21,519.8
			327 22 13.7	47 26 02.9	Ring	4.210136	16,223.2
			345 23 32.7	165 25 02.8	Sandy Point Lighthouse	4.134766	13,638.5
			46 25 25.2	226 23 06.2	Linstid	3.863899	7,309.7
Swan Point 3, 1896	39 08 33.269	1,025.9	33 01 42.7	212 57 43.2	Sandy Point Lighthouse	4.224502	16,768.8
	76 16 45.576	1,094.5	71 45 41.0	251 37 52.1	Linstid	4.274317	18,806.9
			86 06 05.0	266 00 35.0	Bodkin Lighthouse	4.099942	12,587.6
			112 14 07.2	292 07 57.2	North Point Lower Lighthouse	4.181488	15,187.6
			185 01 59.6	5 02 36.9	Pooles Island 2	4.208922	16,177.9
Love Point, 1896	39 02 25.539	787.6	108 58 47.1	288 51 51.6	Linstid	4.224156	16,755.4
	76 18 09.524	229.1	134 50 00.0	314 45 23.2	Bodkin Lighthouse	4.172187	14,865.8
			144 49 00.9	324 43 44.2	North Point Lower Lighthouse	4.320191	20,902.2
			190 04 50.8	10 05 43.7	Swan Point 3	4.061375	11,517.9
Seven Foot Knoll Lighthouse, 1866	39 09 19.403	598.4	146 40 34.5	326 39 19.9	North Point Lower Lighthouse	3.712729	5,160.9
	76 24 33.245	798.2	254 39 12.8	74 47 29.3	Clough	4.291263	19,555.2
			324 07 05.8	144 11 07.9	Love Point	4.197146	15,745.1
			30 05 25.3	210 04 50.4	Bodkin Lighthouse	3.422411	2,644.9
			42 06 41.2	222 03 47.3	Linstid	3.994573	9,875.8
Bloody Point Bar Lighthouse, 1898	38 50 01.116	34.4	59 46 07.3	239 39 37.0	Fairhaven 2	4.241082	17,421.4
	76 23 31.052	749.0	92 15 07.8	272 11 26.0	Horseshoe 2	3.931409	8,539.0
			125 07 52.3	305 04 12.6	Gowan 3	4.014148	10,331.1
			125 09 05.0	305 05 25.4	Gowan 2	4.015901	10,372.9
			133 09 57.5	313 06 06.0	Selby	4.086066	12,191.7
			147 06 20.2	327 04 01.0	Thomas 3	3.993210	9,844.9
			147 20 42.8	327 18 24.9	Thomas 2	3.991966	9,816.7
			170 07 50.9	350 06 34.1	Hackett 2	4.235127	17,184.1
			181 44 28.7	1 44 44.7	Sandy Point Lighthouse	4.306225	20,240.1
			194 53 25.4	14 54 23.5	Price 2	3.938057	8,670.8
			215 01 09.4	35 01 37.0	Bloody 2	3.265091	1,841.2
			345 00 00.6	165 00 42.8	Poplar north	3.796607	6,260.5
			357 51 34.4	177 51 41.6	Sinker	3.869966	7,412.5
Thomas Point Shoal Lighthouse, 1898	38 53 56.231	1,733.8	34 09 07.2	214 07 05.3	Horseshoe 2	3.922171	8,359.3
	76 26 10.247	247.0	74 08 14.7	254 06 14.9	Gowan 2	3.680127	4,787.7
			102 07 36.5	282 05 44.9	Selby	3.713671	5,172.1
			116 25 02.7	296 23 48.4	Arundel	3.503042	3,184.5
			124 44 26.7	304 43 51.5	Thomas 2	3.249952	1,778.1
			179 28 05.8	359 28 03.0	Chase 2	4.031246	10,746.0
			185 13 53.2	5 14 16.3	Hackett 2	3.987651	9,719.7
			224 12 51.1	44 16 16.4	Broad	4.052238	11,278.2
			259 25 49.7	79 28 27.7	Price 2	3.790179	6,168.5
			319 32 37.4	139 34 44.9	Bloody 2	3.877648	7,544.8

Chesapeake Bay, Pooles Island to south end of Kent Island—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Cutts 2, 1898	38 51 13.816	426.0	190 52 03.4	10 52 21.9	Gowan 2	3.575881	3,766.0
	76 29 50.789	1,224.7	212 36 30.5	32 38 10.7	Thomas 2	3.854270	7,149.4
			226 41 19.6	46 43 37.9	Thomas Point Shoal Lighthouse	3.863553	7,303.9
			241 37 26.5	61 42 22.9	Price 2	4.111645	12,931.4
			274 04 24.6	94 08 50.3	Bloody 2	4.010294	10,239.9
			283 43 18.6	103 47 16.6	Bloody Point Bar Lighthouse	3.974432	9,428.3
Dutchman 2, 1898	38 52 10.370	319.8	229 03 15.3	49 05 23.8	Thomas 2	3.814889	6,529.6
	76 30 35.581	857.8	242 56 05.2	62 58 51.6	Thomas Point Shoal Lighthouse	3.856142	7,180.3
			250 31 54.6	70 37 19.1	Price 2	4.120977	13,212.3
			282 20 07.6	102 25 01.4	Bloody 2	4.062998	11,561.1
			328 13 38.1	148 14 06.2	Cutts 2	3.312013	2,051.2
Van, 1898	38 57 23.866	735.9	41 34 36.6	221 29 29.1	Horseshoe 2	4.250337	17,796.6
	76 21 15.148	386.4	48 00 55.9	227 57 50.6	Thomas Point Lighthouse	3.980763	9,566.7
			54 26 52.3	234 21 00.4	Dutchman 2	4.220274	16,606.3
			56 40 35.7	236 35 30.3	Gowan 2	4.146855	14,023.5
			57 51 40.2	237 47 56.7	Thomas 2	4.005289	10,122.5
			78 31 17.1	258 27 40.2	Tolly 2	3.928432	8,480.7
			86 45 24.8	266 41 08.6	Gram	3.992533	9,829.5
			98 21 47.7	278 18 00.7	Greenbury Point Lighthouse	3.943790	8,786.0
			99 05 16.7	279 00 45.6	Horn	3.921787	8,351.9
			101 43 52.0	281 38 42.0	Annapolis Statehouse	4.083519	12,120.4
			103 42 53.5	283 39 10.9	Greenbury 2	3.943020	8,770.4
			117 48 37.3	297 45 54.9	Hackett 2	3.846834	7,028.0
			121 06 43.2	301 03 35.0	Chase 2	3.924852	8,411.1
			155 38 24.6	335 35 45.3	Peach Hill	4.169107	14,760.7
			158 01 32.4	338 00 23.0	Sandy Point Lighthouse	3.850902	7,094.2
			203 28 22.4	23 29 31.9	Ring	3.823524	6,660.8
Huntingfield Bank, 1896	39 07 01.984	61.2	24 38 11.1	204 36 50.9	Love Point Lighthouse	3.865740	7,340.7
	76 14 53.350	1,281.7	28 57 57.0	208 55 53.3	Love Point	3.988652	9,742.1
			81 31 19.5	261 22 20.0	Linstid	4.317778	20,786.3
			97 20 11.4	277 13 30.6	Bodkin Lighthouse	4.186950	15,379.8
			136 15 04.6	316 13 53.8	Swan Point 3	3.590787	3,897.5
Beach Point, 1896	39 01 42.424	1,308.3	104 25 09.9	284 22 54.3	Love Point	3.728028	5,346.0
	76 14 34.239	823.6	132 07 01.6	312 05 29.4	Love Point Lighthouse	3.676215	4,744.8
			166 01 15.8	345 59 52.9	Swan Point 3	4.115835	13,056.7
			177 19 57.2	357 19 45.2	Huntingfield Bank	3.994102	9,865.1
Love Point 2, 1898	39 02 25.240	778.3	111 30 32.3	291 25 55.7	Peach Hill	4.054616	11,340.1
	76 18 09.513	228.0	134 51 28.3	314 45 51.5	Bodkin Lighthouse	4.172382	14,872.4
			190 04 16.8	10 05 09.7	Swan Point 3	4.061715	11,527.0
Persimmon 2, 1898	39 02 58.932	1,817.5	184 42 18.9	4 42 23.3	Welch	3.306324	2,024.5
	76 26 15.555	374.1	275 02 12.9	95 07 19.1	Love Point 2	4.069465	11,734.5
			200 00 02.0	20 00 31.7	Peach Hill	3.520037	3,311.6
Chase 2, 1898	38 59 44.696	1,378.2	288 28 50.9	108 32 19.0	Broad	3.924153	8,397.6
	76 26 14.391	346.3	317 14 33.3	137 14 59.1	Hackett 2	3.162056	1,452.3
			327 20 07.3	147 22 48.1	Price 2	4.057670	11,420.1
Craighill Channel Front Range Lighthouse, 1896.	39 11 18.978	585.3	18 50 40.1	198 50 07.0	Seven Foot Knoll Lighthouse	3.590636	3,896.2
	76 23 40.832	930.0	23 23 31.8	203 22 23.8	Bodkin Lighthouse	3.813627	6,510.7
			35 35 34.1	215 32 07.1	Linstid	4.131704	13,542.7
			98 41 20.3	278 39 32.6	North Point Lower Lighthouse	3.617058	4,140.5
			203 06 01.2	23 07 32.5	Millers Island 2	3.945549	8,821.6
			297 06 09.8	117 10 32.1	Swan Point 3	4.049318	11,202.6
Mitchells Bluff 2, 1896	39 13 28.581	881.4	54 55 24.1	234 46 03.5	Linstid	4.416215	26,074.4
	76 14 20.908	501.5	58 09 36.7	238 02 35.0	Bodkin Lighthouse	4.275839	18,872.9
			79 10 21.6	259 02 39.8	North Point Lower Lighthouse	4.251579	17,847.6
			163 42 48.4	343 41 54.3	Pooles Island 2	3.863433	7,301.9
Millers Island 2, 1896	39 15 42.077	1,297.6	249 53 46.3	69 57 15.3	Pooles Island 2	3.925557	8,424.8
	76 21 16.467	394.8	292 24 33.3	112 28 56.2	Mitchells Bluff 2	4.032714	10,782.4
			333 48 00.0	153 50 51.3	Swan Point 3	4.168345	14,734.8
			23 14 58.7	203 12 19.5	Bodkin Lighthouse	4.185607	15,332.3
			30 41 43.8	210 36 45.5	Linstid	4.347085	22,237.5
Craighill Channel Rear Range Lighthouse, 1896	39 13 44.486	1,371.9	223 40 13.6	43 41 44.8	Millers Island 2	3.700227	5,014.5
	76 23 40.892	980.8	272 02 31.4	92 08 25.4	Mitchells Bluff 2	4.128433	13,441.0
			313 52 43.3	133 57 05.7	Swan Point 3	4.141045	13,837.1
			26 57 02.0	206 53 34.9	Linstid	4.240252	17,388.1
Rock Point, 1906	39 09 59.281	1,828.2	224 58 18.3	44 59 39.4	North Point Lower Lighthouse	3.639235	4,357.5
	76 28 39.726	953.7	251 03 51.7	71 07 00.5	Craighill Channel Front Range Lighthouse	3.879880	7,583.7
			281 43 04.1	101 45 39.7	Seven Foot Knoll Lighthouse	3.781336	6,044.2
			307 26 13.7	127 28 14.4	Bodkin Lighthouse	3.762345	5,785.6
Tolly 2, 1898	38 56 28.992	893.9	190 21 43.2	10 22 12.0	Chase 2	3.787816	6,135.0
	76 27 00.246	5.9	202 48 32.2	22 49 26.8	Hackett 2	3.731612	5,390.3
			214 19 21.1	34 21 48.8	Sandy Point Lighthouse	4.000718	10,016.5
			234 31 15.3	54 36 01.8	Ring	4.128851	13,454.0
			249 35 26.3	69 39 23.1	Broad 2	3.985684	9,675.7
			296 12 36.1	116 15 45.6	Price 2	3.908565	8,101.5
			329 43 21.9	149 46 00.8	Bloody 2	4.082832	12,101.3
			337 07 28.2	157 09 39.4	Bloody Point Bar Lighthouse	4.113274	12,980.0
			345 39 09.5	165 39 39.9	Thomas Point Shoal Lighthouse	3.686830	4,862.2
			3 58 00.8	183 57 54.1	Thomas 2	3,568946	3,706.3

Chesapeake Bay, Pooles Island to south end of Kent Island—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Tolson, 1898	38 52 55.383	1,707.8	16 58 04.6	196 57 33.8	Bloody 2	3.606580	4,041.8
	76 21 58.326	1,405.8	50 43 24.6	230 35 55.8	Fairhaven 2	4.349024	22,337.0
			54 20 42.6	234 15 18.0	Nut	4.186651	15,369.2
			56 57 21.9	236 52 25.0	Franklin 2	4.134219	13,621.3
			64 56 22.4	244 51 42.3	Horseshoe 2	4.075108	11,888.0
			93 04 31.0	272 59 52.9	Gowan 2	4.029080	10,692.5
			111 00 52.9	290 57 36.6	Thomas 2	3.906747	8,067.6
			132 11 16.2	312 08 06.5	Tolly 2	3.991821	9,813.4
			153 58 55.1	333 56 14.1	Chase 2	4.147613	14,048.0
			155 52 13.6	335 49 56.6	Hackett 2	4.102561	12,663.7
			179 53 05.8	359 53 05.6	Price 2	3.477923	3,005.5
Bramble, 1897	39 15 19.574	603.6	21 41 05.9	201 40 30.0	Mitchells' Bluff 2	3.566250	3,683.4
	76 13 24.168	579.5	136 27 55.1	316 26 25.1	Pooles Island 2	3.694354	4,947.1
Wash, 1906	38 58 22.024	679.2	44 13 37.7	224 10 09.8	Thomas Point Shoal Lighthouse	4.058132	11,432.3
	76 20 39.342	947.1	86 55 01.8	266 50 52.2	Greenbury Point Lighthouse	3.980840	9,568.4
			143 41 44.1	323 40 12.1	Sandy Point Lighthouse	3.773671	5,938.4
			202 32 40.6	22 33 27.5	Ring	3.669592	4,673.0
Hackett, 1906	38 59 12.326	380.1	225 31 38.9	45 33 05.1	Sandy Point Lighthouse	3.664348	4,616.9
	76 25 22.428	539.8	252 09 23.1	72 13 08.2	Ring	3.956038	9,037.3
			282 47 58.6	102 50 56.7	Wash	3.844373	6,988.3
			6 44 32.2	186 44 02.2	Thomas Point Shoal Lighthouse	3.991895	9,815.1
			52 54 38.0	232 53 26.4	Greenbury Point Lighthouse	3.535827	3,434.2
Craney, 1906	38 56 10.350	319.2	56 44 52.1	236 42 07.8	Thomas Point Shoal Lighthouse	3.877253	7,537.9
	76 21 48.657	1,171.9	114 11 58.2	294 08 32.3	Greenbury Point Lighthouse	3.936795	8,645.6
			137 29 30.1	317 27 15.7	Hackett (1906)	3.881639	7,614.5
			168 11 48.9	348 11 00.6	Sandy Point Lighthouse	3.956002	9,036.5
Bay Side, 1906	39 00 42.684	1,316.2	244 13 29.0	64 13 53.2	Sandy Point Lighthouse	3.012370	1,028.9
	76 23 43.999	1,058.6	270 10 42.3	90 13 25.4	Ring	3.794797	6,234.4
			314 17 21.5	134 19 17.7	Wash	3.793087	6,209.9
Clump, 1906	38 59 44.844	1,382.8	227 46 46.6	47 47 50.9	Sandy Point Lighthouse	3.521210	3,320.5
	76 24 47.701	1,147.9	257 11 36.3	77 14 59.5	Ring	3.901196	7,965.2
			293 06 44.2	113 09 20.5	Wash	3.812943	6,500.4
Cottage, 1906	38 55 15.462	476.8	240 18 47.8	60 23 11.5	Wash	4.065546	11,629.1
	76 27 39.018	939.9	258 37 44.4	78 41 24.5	Craney	3.934874	8,607.4
			318 47 33.4	138 48 29.2	Thomas Point Lighthouse	3.511501	3,247.1
Locust, 1907	39 06 13.333	411.2	188 33 52.8	8 34 06.4	Bodkin Lighthouse	3.542618	3,488.3
	76 25 50.087	1,203.5	292 04 22.0	112 09 55.8	Love Point Lighthouse	4.137902	13,737.3
			331 16 05.2	151 17 15.9	Balto	3.749180	5,612.8
Magothy 2, 1907	39 02 12.243	377.5	165 08 30.4	345 07 58.8	Peach Hill	3.672933	4,709.0
	76 24 38.197	918.7	290 14 35.2	110 17 52.5	Ring	3.904966	8,034.6
			316 03 17.4	136 04 15.8	Sandy Point Lighthouse	3.507043	3,214.0
Corn, 1906	39 01 29.269	871.7	159 11 56.1	339 10 57.3	Peach Hill	3.800701	6,319.8
	76 23 55.065	1,321.6	232 21 49.0	102 24 39.1	Ring	3.823145	6,655.0
			308 46 47.7	128 47 18.9	Sandy Point Lighthouse	3.184692	1,530.0
Stevens, 1909	39 07 01.897	58.5	29 30 47.1	209 28 26.6	Railway water tank	4.036650	10,880.5
	76 14 50.981	1,224.8	97 19 11.6	277 12 29.3	Bodkin Point Light (old)	4.188551	15,436.6
			135 40 50.7	315 39 38.3	Swan Point 3	3.595387	3,939.0
Love Point Lighthouse, 1909	39 03 25.596	789.3	182 10 52.8	2 11 02.2	Swan Point 3	3.977484	9,494.8
	76 17 00.624	15.0	205 01 38.7	25 03 00.4	Stevens	3.866998	7,362.0
			312 04 51.3	132 06 23.7	Wickes Beach	3.677042	4,753.8
Balto, 1906	39 03 33.715	1,039.7	133 07 57.0	313 06 59.9	Peach Hill	3.474654	2,983.0
	76 23 57.867	1,391.4	165 25 54.4	345 24 57.3	Bodkin Lighthouse	3.937018	8,650.0
			271 23 35.0	91 27 58.0	Love Point Lighthouse	4.001527	10,035.2
			308 51 56.1	128 54 48.0	Ring	3.926112	8,435.5
			345 22 03.3	165 22 36.2	Sandy Point Lighthouse	3.697965	4,988.4
Tolly, 1906	38 56 30.429	938.3	173 48 32.5	353 48 24.2	Greenbury Point Lighthouse	3.468052	2,938.0
	76 27 03.059	73.7	205 52 40.8	25 53 44.1	Hackett (1906)	3.744230	5,549.2
			249 32 16.9	69 36 18.2	Wash	3.993841	9,859.2
Hackett, 1910	38 59 11.989	369.7	23 18 21.5	203 17 25.5	Tolly (1906)	3.734343	5,424.3
	76 25 33.948	817.1	50 04 17.1	230 03 12.8	Greenbury Point Lighthouse	3.506602	3,210.7
Greenbury Point, 1910	38 58 29.743	917.2	242 42 01.9	62 43 07.9	Hackett (1910)	3.453517	2,841.3
	76 27 18.852	453.8	354 05 51.9	174 06 01.8	Tolly (1906)	3.568067	3,698.9
			355 13 23.1	175 13 24.7	Greenbury Point Lighthouse	2.881404	761.0
Millers Island (1918), 1918	39 15 34.378	1,060.1	248 47 08.6	68 50 41.8	Pooles Island 2	3.937471	8,659.1
	76 21 23.177	555.7	272 14 03.6	92 19 06.7	Bramble	4.060465	11,493.8
			44 16 18.9	224 14 52.0	Craighill Channel Lighthouse, rear	3.675039	4,731.9
Mitchells Bluff, Tower No. 11, 1919	39 13 26.241	809.2	92 26 57.1	272 21 03.3	Craighill Lighthouse, rear	4.128232	13,434.8
	76 14 21.287	510.6	111 22 15.0	291 17 48.1	Millers Island (1918)	4.035902	10,861.8
			136 42 51.1	316 39 34.4	Spry Island (1918)	4.036003	10,864.3
			163 56 19.0	343 55 25.2	Pooles Island 2	3.867385	7,368.6

Chesapeake Bay, Pooles Island to south end of Kent Island—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Steel Tower No. 13, 1919	39 10 50.990	1,572.4	77 12 18.4	257 06 52.5	Seven Foot Knoll Lighthouse,	4.104113	12,709.0
	76 15 57.080	1,370.0	94 28 28.3	274 23 35.4	Craighill Lighthouse, front	4.047813	11,163.8
			115 43 01.9	295 38 08.9	Craighill Lighthouse, rear	4.091596	12,348.0
			138 11 45.9	318 08 19.7	Millers Island (1918)	4.069258	11,728.9
			205 38 13.7	25 39 14.2	Mitchells Bluff Tower No. 11	3.725162	5,310.8
Swan Point Tower No. 14, 1919	39 08 56.684	1748.0	93 30 16.2	273 25 11.6	Seven Foot Knoll Lighthouse	4.064529	11,601.9
	76 16 30.954	743.3	113 04 23.7	292 59 52.2	Craighill Lighthouse front	4.049759	11,214.0
			130 44 17.1	310 39 45.5	Craighill Lighthouse, rear	4.133864	13,610.2
			192 59 13.9	12 59 35.2	Steel Tower No. 13	3.558417	3,617.6
			325 50 25.5	145 51 28.6	Stevens	3.631174	4,277.3
			3 59 49.0	183 59 30.3	Love Point Lighthouse	4.010079	10,234.8
Fairlee, Tower No. 10, 1919	39 15 12.731	392.6	22 02 02.5	202 01 27.5	Mitchells Bluff Tower No. 11	3.549322	3,542.6
	76 13 25.882	620.6	93 22 49.7	273 17 47.7	Millers Island, (1918)	4.059308	11,463.3
			117 47 34.4	297 43 42.6	Spry Island, (1918)	3.996564	9,921.2
			138 26 34.3	318 25 05.4	Pooles Island 2	3.705421	5,074.8
Gales Farm, Tower No. 12, 1919	39 12 22.013	678.8	101 21 14.1	281 15 39.1	Craighill Lighthouse, rear	4.112977	12,971.1
	76 14 50.692	1,216.3	122 15 09.6	302 11 01.4	Millers Island, 1918	4.046370	11,126.8
			145 42 17.3	325 39 19.3	Spry Island, 1918	4.078080	11,969.6
			171 37 32.5	351 36 57.3	Pooles Island 2	3.961855	9,159.1
Huntingfield Bank, Tower No. 15, 1918	39 06 36.883	1,137.4	30 13 55.0	210 12 24.9	Love Point Lighthouse	3.834198	6,826.5
	76 14 37.672	905.1	109 21 37.6	289 15 21.7	Seven Foot Knoll Lighthouse	4.180622	15,157.3
			147 45 06.6	327 43 55.1	Swan Point Tower No. 14	3.707399	5,098.0
			157 29 12.4	337 29 04.0	Stevens	2.921685	835.0
Baltimore Lighthouse, 1918	39 03 33.038	1,018.8	175 23 31.5	355 23 08.9	Seven Foot Knoll Lighthouse	4.030023	10,715.8
	76 23 57.392	1,379.9	243 49 36.0	63 55 20.5	Stevens	4.165144	14,626.6
			271 16 31.8	91 20 54.4	Love Point Lighthouse	4.001012	10,023.3
			345 26 02.9	165 26 35.4	Sandy Point Lighthouse	3.695952	4,965.4
Love Point, Tower No. 16, 1918	39 02 02.378	73.3	72 04 51.6	252 02 08.9	Sandy Point Lighthouse	3.814620	6,525.6
	76 18 47.401	1,140.1	110 35 04.9	290 31 49.6	Baltimore Lighthouse	3.900999	7,961.6
			148 22 05.3	328 18 27.2	Seven Foot Knoll Lighthouse	4.199576	15,833.5
			225 00 30.2	45 01 37.4	Love Point Lighthouse	3.559940	3,630.3

Tower N, 1918	39 12 32.812	1,011.9	229 06 46.6	49 07 53.9	Craighill Lighthouse, rear	3.528579	3,377.4
	76 25 27.344	656.1	311 41 13.4	131 42 20.7	Craighill Lighthouse, front	3.534402	3,423.0
			347 42 47.4	167 43 21.6	Seven Foot Knoll Lighthouse	3.785616	6,104.0
Tower M, 1918	39 19 03.349	103.3	296 55 04.2	116 57 56.6	Pooles Island 2	3.864328	7,316.9
	76 20 18.581	445.1	327 32 57.7	147 36 25.2	Gales Farm Tower No. 12	4.166194	14,662.0
			335 55 25.3	155 55 54.7	Spry Island, (1918)	3.435858	2,728.1
Supplementary points							
Kent Island Speed Trial Course:							
North base, 1912	38 56 05.508	169.9	161 47 59.3	341 47 58.0	Craney	2.196312	157.16
	76 21 46.619	1,122.8					
South base, 1912	38 55 05.437	167.7	181 44 37.8	1 44 39.3	North base	3.267934	1,853.25
	76 21 48.961	1,179.5					
North front range, 1912	38 56 05.512	170.0	271 44 39	91 44 39	North base	0.63014	4.27
	76 21 46.796	1,127.1	271 44 39	91 44 52	North rear range	2.69192	492
South front range, 1912	38 55 05.441	167.8	271 44 38	91 44 38	South base	0.63014	4.27
	76 21 49.138	1,183.8	271 44 38	91 44 50	South rear range	2.69192	492
North rear range, 1912	38 56 05.03	155.1					
	76 21 26.38	635.4					
South rear range, 1912	38 55 04.96	153.0					
	76 21 23.73	692.2					
Black Marsh 2, 1896	39 12 20.21	623.2	299 02 43	119 08 14	Swan Point 3	4.158164	14,393.4
	76 25 29.55	709.1	359 48 33	179 48 34	Bodkin Lighthouse	3.895669	7,864.5
Black Marsh house, north chimney, 1896	39 12 30.70	946.7	299 36 40	119 42 18	Swan Point 3	4.170157	14,796.4
	76 25 41.24	989.5	357 51 13	177 51 21	Bodkin Lighthouse	3.913466	8,193.4
Crows Nest	39 06 09.80	302.2	187 41 49	7 42 02	Bodkin Lighthouse	3.55518	3,591
	76 25 48.48	1,165.0	251 12 47	71 18 30	Swan Point 3	4.13899	13,772
Mitchells Bluff, 1840	39 13 09.503	293.0	147 07 12.3	327 04 14.3	Carrolls Island	4.093754	12,409.5
	76 14 33.808	811.0	203 48 51.1	23 50 59.5	Worton Point	4.080613	12,039.6

Swan Creek

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Windmill Point, 1909	39 07 59.051	1,821.0	346 51 15.7	166 51 26.5	Stevens	3.257661	1,809.9
	76 15 08.115	194.9	17 47 13.5	197 46 02.6	Love Point Lighthouse	3.947214	8,855.5
			114 16 29.6	294 15 28.1	Swan Point 3	3.409518	2,567.5
Gratitude, 1909	39 08 23.637	728.9	11 46 27.5	191 45 37.3	Love Point Lighthouse	3.972580	9,388.2
	76 15 40.949	933.4	100 50 24.4	280 49 43.6	Swan Point 3	3.198716	1,580.2
Bank, 1909	39 08 40.403	1,245.9	308 44 02.4	128 44 19.3	Gratitude	2.917130	826.3
	76 16 07.788	187.0	7 27 29.4	187 26 47.1	Love Point Lighthouse	3.990807	9,790.5
			76 22 33.3	256 22 09.4	Swan Point 3	2.970237	933.8
Orchard, 1909	39 08 44.660	1,377.2	1 18 59.5	181 18 59.1	Gratitude	2.811890	648.5
	76 15 40.329	958.5	78 44 39.3	258 44 22.0	Bank	2.827588	672.3
Tavern, 1909	39 08 58.312	1,798.2	309 19 23.2	129 19 36.7	Orchard	2.822377	664.3
	76 16 01.729	41.5	334 58 50.3	154 59 03.4	Gratitude	3.071882	1,180.0
			14 45 33.3	194 45 29.5	Bank	2.756708	571.1
Fork, 1909	39 09 02.083	64.2	36 33 00.3	216 32 49.8	Orchard	2.825298	668.8
	76 15 23.743	570.1	82 44 15.7	262 43 51.7	Tavern	2.963563	919.5
Treasure, 1909	39 08 46.416	1,431.4	84 59 47.7	264 59 31.4	Orchard	2.792803	620.7
	76 15 14.581	350.1	107 57 24.7	287 56 54.9	Tavern	3.075593	1,190.1
			155 31 00.6	335 30 54.8	Fork	2.724983	530.9
Rail, 1909	39 09 05.787	178.5	14 17 27.5	194 17 23.5	Treasure	2.789888	616.4
	76 15 08.245	198.0	72 56 14.4	252 56 04.6	Fork	2.590277	389.3
Haven, 1909	39 08 50.591	1,560.1	69 12 10.1	249 12 01.2	Treasure	2.559449	362.6
	76 15 00.465	11.2	122 22 23.7	302 22 14.0	Fork	2.820758	661.8
			158 15 53.9	338 15 49.0	Rail	2.702535	504.5
Spike, 1909	39 09 19.299	595.1	336 53 04.8	156 53 09.5	Rail	2.656153	453.1
	76 15 15.652	375.8	20 06 01.7	200 05 56.6	Fork	2.752319	565.4
Elliason, 1909	39 09 16.434	506.8	254 25 56.5	74 26 04.8	Spike	2.517515	329.2
	76 15 28.861	693.0	303 33 09.5	123 33 22.5	Rail	2.773801	594.0
			344 28 51.7	164 28 54.9	Fork	2.662106	459.3
Urie, 1909	39 09 29.552	911.3	314 26 52.2	134 27 00.7	Spike	2.654666	451.5
	76 15 29.076	698.1	359 16 07.2	179 16 07.3	Elliason	2.606991	404.6
Corr, 1909	39 09 31.964	985.7	0 46 59.8	180 46 59.7	Spike	2.591715	390.6
	76 15 15.430	370.5	33 57 28.2	213 57 19.8	Elliason	2.761451	577.4
			77 12 47.8	257 12 39.2	Urie	2.526320	336.0

Chester River

Principal points							
Narrows Point, 1896	39 00 34.455	1,062.6	114 47 19.6	294 44 05.2	Love Point	3.912672	8,178.5
	76 13 00.794	19.2	133 00 13.9	312 59 15.1	Beach Point	3.487639	3,073.5
Long Point, 1896	38 58 48.893	1,507.6	136 27 19.1	316 24 32.8	Love Point	3.964750	9,220.4
	76 13 45.401	1,092.8	167 37 06.4	347 36 35.7	Beach Point	3.738678	5,478.7
			198 14 49.1	18 15 17.2	Narrows Point	3.534996	3,427.6
Lords Gift 2, 1896	38 59 39.877	1,229.6	72 00 35.4	251 58 29.0	Long Point	3.706346	5,085.6
	76 10 24.447	588.4	114 06 54.4	294 05 16.0	Narrows Point	3.615051	4,121.5
			114 34 52.4	294 29 59.6	Love Point	4.089895	12,299.7
Hail Point 2, 1896	39 00 41.724	1,286.6	314 50 58.5	134 51 48.6	Lords Gift 2	3.431996	2,703.9
	76 11 44.104	1,061.1	40 00 19.0	219 59 02.6	Long Point	3.657214	4,541.7
			83 04 47.9	263 03 59.6	Narrows Point	3.269216	1,858.7
Piney Point 2, 1896	39 02 45.251	1,395.5	350 23 17.8	170 23 43.1	Lords Gift 2	3.763258	5,797.7
	76 11 04.673	112.4	13 59 07.4	193 58 42.6	Hail Point 2	3.593899	3,925.5
Bay Bush Point, 1896	39 03 27.707	854.5	302 10 19.8	122 11 14.3	Piney Point 2	3.390636	2,458.3
	76 12 31.202	750.2	336 31 43.2	156 33 03.0	Lords Gift 2	3.884157	7,658.7
			347 31 00.5	167 31 30.2	Hail Point 2	3.719523	5,242.3
Grays Inn Point, 1896	39 05 23.304	718.7	350 27 49.5	170 28 36.0	Lords Gift 2	4.030945	10,738.5
	76 11 38.374	922.3	350 33 33.3	170 33 54.5	Piney Point 2	3.693799	4,940.8
			0 54 35.0	180 54 31.4	Hail Point 2	3.938734	8,684.3
			19 36 46.3	199 36 13.0	Bay Bush Point	3.577968	3,784.1
Nichols Point, 1896	39 05 39.362	1,213.9	14 24 42.6	194 23 40.8	Hail Point 2	3.976634	9,476.2
	76 10 06.076	146.0	14 42 22.1	194 41 45.2	Piney Point 2	3.744359	5,550.8
			40 41 02.0	220 39 30.5	Bay Bush Point	3.728581	5,352.8
			77 25 23.4	257 24 25.2	Grays Inn Point	3.356551	2,272.7

Chester River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Holton Point, 1896	39 04 46.476	1,433.3	64 15 19.7	244 13 07.7	Bay Bush Point	3.747295	5,588.5
	76 09 01.845	44.4	106 48 39.9	286 47 01.2	Grays Inn Point	3.594373	3,929.8
			136 34 40.6	316 34 00.1	Nichols Point	3.351338	2,245.6
Spaniard Point 2, Upper, 1896	39 05 36.903	1,138.1	17 03 59.1	197 03 46.6	Holton Point	3.211295	1,626.7
	76 08 41.984	1,009.0	54 09 01.7	234 06 37.2	Bay Bush Point	3.832472	6,799.4
			84 21 56.3	264 20 05.1	Grays Inn Point	3.629387	4,259.8
			92 09 22.9	272 08 29.9	Nichols Point	3.305845	2,022.3
Cliff Point, 1896	39 06 19.352	596.8	358 31 35.8	178 31 36.7	Spaniard Point 2, Upper	3.117093	1,309.5
	76 08 43.385	1,042.7	8 48 23.6	188 48 12.0	Holton Point	3.462131	2,898.2
			45 59 30.8	225 57 07.3	Bay Bush Point	3.881718	7,615.8
			58 10 57.7	238 10 05.6	Nichols Point	3.368958	2,338.6
			67 40 16.9	247 38 26.6	Grays Inn Point	3.657670	4,546.4
Spaniard Wharf, 1896	39 05 55.066	1,698.3	52 19 00.0	232 18 41.0	Spaniard Point 2, Upper	2.961985	916.2
	76 08 11.813	283.9	80 00 28.9	259 59 16.9	Nichols Point	3.445327	2,788.2
			134 38 00.1	314 37 40.2	Cliff Point	3.027776	1,066.0
Deep Point 2, 1896	39 06 32.591	1,005.1	52 18 01.5	232 17 22.2	Spaniard Wharf	3.276940	1,892.1
	76 07 09.513	228.6	53 37 25.6	233 34 02.8	Bay Bush Point	3.982570	9,606.6
			68 51 51.5	248 50 00.2	Nichols Point	3.657927	4,549.1
			79 44 54.0	259 43 54.8	Cliff Point	3.360240	2,292.1
Mummy Point 2, 1896	39 06 21.022	648.3	68 30 28.9	248 29 35.6	Spaniard Wharf	3.339256	2,184.0
	76 06 47.246	1,135.5	74 58 02.7	254 55 57.4	Nichols Point	3.694385	4,947.5
			88 57 11.1	268 55 57.9	Cliff Point	3.445768	2,791.1
			123 41 55.1	303 41 41.1	Deep Point 2	2.808255	643.1
Railway water tank, 1909	39 01 54.785	1,689.4	138 55 55.8	318 51 34.4	Bodkin Point Lighthouse (old)	4.180663	15,158.7
	76 18 33.824	813.6	191 56 40.3	11 57 48.5	Swan Point 3	4.099011	12,560.6
Wickes Beach, 1909	39 01 42.257	1,303.1	93 51 04.9	273 48 33.8	Railway water tank	3.762144	5,782.9
	76 14 33.942	816.4	165 59 45.9	345 58 22.8	Swan Point 3	4.116058	13,063.5
			177 37 19.2	357 37 08.4	Stevens	3.994113	9,865.4
			313 00 29.5	133 01 28.1	Narrows Point	3.486405	3,064.8
Amour, 1909	39 02 12.342	380.6	213 42 14.9	33 42 54.4	Love Point Lighthouse	3.433857	2,715.5
	76 18 03.295	79.2	280 25 15.1	100 27 27.0	Wickes Beach	3.709288	5,120.2
Macum, 1909	38 59 30.956	954.6	153 36 31.9	333 35 34.3	Railway water tank	3.694748	4,951.6
	76 17 02.318	55.8	163 34 51.1	343 34 12.7	Amour	3.715034	5,188.4
			180 19 20.9	0 19 22.0	Love Point Lighthouse	3.859484	7,235.8
			221 23 22.1	41 24 55.5	Wickes Beach	3.732233	5,398.0
			251 21 33.8	71 24 05.8	Narrows Point	3.787663	6,132.9
Muddy, 1909	38 58 47.685	1,470.5	105 45 42.9	285 43 39.2	Macum	3.691735	4,917.4
	76 13 45.674	1,099.4	167 49 45.7	347 49 15.4	Wickes Beach	3.749928	5,507.2
			198 09 26.9	18 09 55.1	Narrows Point	3.539713	3,465.1
Bluebeard, 1909	38 59 12.739	392.8	78 55 52.0	258 54 08.9	Muddy	3.604116	4,019.0
	76 11 01.812	43.6	131 21 39.3	311 20 24.4	Narrows Point	3.581397	3,814.1
Rain, 1909	39 00 42.762	1,318.7	338 43 15.6	158 43 43.9	Bluebeard	3.474080	2,979.1
	76 11 46.732	1,124.4	38 54 00.5	218 52 45.7	Muddy	3.658883	4,559.1
			81 49 31.9	261 48 45.3	Narrows Point	3.255334	1,800.3
Blakeford, 1909	39 00 17.674	545.0	41 55 09.3	221 54 22.3	Bluebeard	3.429884	2,690.8
	76 09 47.120	1,133.8	105 03 24.3	285 02 09.0	Rain	3.474233	2,980.1
Break, 1909	39 01 32.278	995.4	336 38 25.7	156 38 51.7	Blakeford	3.398966	2,505.9
	76 10 28.413	683.5	10 34 53.6	190 34 32.6	Bluebeard	3.641215	4,377.4
			50 59 04.7	230 58 15.4	Rain	3.384744	2,425.2
Overton, 1909	39 01 58.258	1,796.5	176 46 48.5	356 46 44.4	Bay Bush Point	3.441338	2,762.7
	76 12 24.749	595.3	285 57 56.7	105 59 09.9	Break	3.463999	2,910.7
			338 33 01.2	158 33 25.1	Rain	3.398158	2,501.3
Fir, 1909	39 02 45.332	1,397.9	338 55 54.3	158 56 17.0	Break	3.382752	2,414.1
	76 11 04.489	108.0	15 03 02.1	195 02 35.5	Rain	3.592609	3,913.9
			53 03 44.1	233 02 53.6	Overton	3.382949	2,415.2
			122 04 59.0	302 04 04.4	Bay Bush Point	3.391064	2,460.7
Gordon, 1909	39 03 25.810	795.9	25 17 41.6	205 17 26.1	Fir	3.140059	1,380.6
	76 10 39.959	960.8	43 02 08.3	223 01 02.3	Overton	3.567400	3,693.2
			91 15 46.4	271 14 36.3	Bay Bush Point	3.427383	2,675.4
			223 28 07.3	43 29 09.2	Holton Point	3.535044	3,428.0
Langford, 1909	39 05 39.849	1,228.9	272 31 23.4	92 32 17.3	Spaniard Point 2, Upper	3.313326	2,057.4
	76 10 07.513	180.6	316 11 42.8	136 12 24.2	Holton Point	3.357999	2,280.3
			10 41 17.5	190 40 57.0	Gordon	3.623906	4,206.4
			40 17 51.4	220 16 20.8	Bay Bush Point	3.727686	5,341.8
Quaker, 1909	39 06 12.173	375.4	305 46 03.6	125 46 43.2	Spaniard Point 2, Upper	3.269648	1,860.6
	76 09 44.803	1,076.6	338 39 27.4	158 39 54.5	Holton Point	3.452889	2,837.2
			28 42 07.6	208 41 53.3	Langford	3.055540	1,136.4
Brown, 1909	39 06 19.938	614.8	260 14 18.7	80 15 18.3	Deep Point 2	3.362330	2,303.2
	76 08 43.986	1,056.9	357 55 26.4	177 55 27.6	Spaniard Point 2, Upper	3.123188	1,328.0
			80 41 59.7	260 41 21.3	Quaker	3.170502	1,480.8

42300°—25†—5

Chester River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Evans, 1909	39 05 55.122	1,699.9	52 17 43.9	232 17 24.8	Spaniard Point 2, Upper	2.963121	918.6
	76 08 11.742	282.2	103 14 25.2	283 13 26.5	Quaker	3.361195	2,297.2
			134 38 56.0	314 38 35.7	Brown	3.037026	1,089.0
			232 18 00.2	52 18 39.5	Deep Point 2	3.276385	1,889.7
Stratton, 1909	39 06 25.870	797.8	263 52 59.5	83 53 50.4	Deep Point 2	3.289409	1,947.2
	76 08 30.095	723.1	335 03 20.6	155 03 32.2	Evans	3.019418	1,045.7
			10 42 51.6	190 42 44.1	Spaniard Point 2, Upper	3.186620	1,536.8
Chester, 1909	39 05 48.441	1,493.8	99 47 36.9	279 47 05.5	Evans	3.083400	1,211.7
	76 07 22.052	529.9	192 28 39.1	12 28 47.0	Deep Point 2	3.144387	1,394.4
Corpse, 1909	39 06 21.673	668.4	39 23 40.4	219 23 18.3	Chester	3.122547	1,326.0
	76 06 47.032	1,130.1	68 05 43.5	248 04 50.0	Evans	3.341234	2,194.0
			121 56 13.7	301 55 59.5	Deep Point 2	2.803795	636.5
Thorn, 1909	39 07 00.583	18.0	8 55 30.7	188 55 25.8	Corpse	3.084428	1,214.6
	76 06 39.189	941.5	40 10 00.6	220 09 41.5	Deep Point 2	3.052905	1,129.5
Indian, 1909	39 06 46.802	1,443.3	38 08 56.3	218 08 40.3	Corpse	2.993596	985.4
	76 06 21.700	521.3	69 07 22.2	249 06 52.0	Deep Point 2	3.089732	1,229.5
			135 19 33.1	315 19 22.1	Thorn	2.776420	597.6
Shippen, 1909	39 07 19.618	605.0	7 27 36.1	187 27 32.6	Indian	3.008860	1,020.6
	76 06 16.184	388.8	43 16 29.6	223 16 15.1	Thorn	2.906458	806.2
Ashland, 1909	39 07 07.779	239.9	43 28 17.0	223 28 00.9	Indian	2.950051	891.4
	76 05 56.175	1,349.5	77 52 56.9	257 52 29.8	Thorn	3.024045	1,056.9
			127 13 05.7	307 12 53.1	Shippen	2.780753	603.6
Burns, 1909	39 07 30.613	944.0	45 22 04.2	225 21 45.4	Ashland	3.000966	1,002.2
	76 05 26.486	636.2	74 08 55.5	254 08 24.1	Shippen	3.093789	1,241.0
Oyster, 1909	39 07 50.467	1,556.3	324 14 08.6	144 14 20.2	Burns	2.877656	754.5
	76 05 44.844	1,077.1	11 41 00.3	191 40 53.1	Ashland	3.128472	1,344.2
			38 21 34.5	218 21 14.7	Shippen	3.083913	1,213.1
Starkley, 1909	39 07 41.608	1,283.1	61 33 24.2	241 33 07.8	Burns	2.852357	711.8
	76 05 00.431	10.3	104 22 03.8	284 21 35.8	Oyster	3.041867	1,101.2
Jarrett, 1909	39 08 03.110	95.9	350 28 15.1	170 28 18.0	Starkley	2.827596	672.4
	76 05 05.065	121.7	27 10 47.2	207 10 33.7	Burns	3.051729	1,126.5
			67 48 15.2	247 47 50.1	Oyster	3.013647	1,031.9
Booker, 1909	39 07 54.096	1,668.2	67 55 13.7	247 54 48.7	Starkley	3.010463	1,024.4
	76 04 20.912	502.3	104 41 27.0	284 40 59.1	Jarrett	3.039936	1,096.3
Melton, 1909	39 08 17.904	552.1	343 27 51.2	163 27 56.9	Booker	2.884150	765.9
	76 04 29.987	720.2	33 09 30.6	213 09 11.3	Starkley	3.126127	1,337.0
			61 33 58.3	241 33 36.1	Jarrett	2.981404	958.1
Journey, 1909	39 08 16.813	518.5	28 15 01.0	208 14 51.1	Booker	2.900500	795.2
	76 04 05.240	125.8	93 14 37.2	273 14 21.6	Melton	2.774722	595.3
Cake, 1909	39 08 36.018	1,110.7	323 30 41.8	143 30 53.3	Journey	2.867261	736.6
	76 04 23.480	563.9	357 16 05.3	177 16 06.9	Booker	3.112022	1,294.3
			15 37 45.8	195 37 41.7	Melton	2.763464	580.0
Pomona, 1909	39 08 37.103	1,144.2	271 59 28.1	91 59 53.3	Cake	2.982753	961.1
	76 05 03.475	83.5	306 21 21.3	126 21 42.4	Melton	2.999423	998.7
Bill, 1909	39 08 57.377	1,769.4	344 18 56.4	164 19 01.2	Cake	2.835145	684.1
	76 04 31.181	748.8	358 38 59.7	178 39 00.4	Melton	3.085508	1,217.6
			51 07 36.2	231 07 15.8	Pomona	2.998322	996.1
Taste, 1909	39 09 02.171	67.0	279 51 53.4	99 52 15.8	Bill	2.935839	862.7
	76 05 06.575	157.9	354 29 59.5	174 30 01.5	Pomona	2.890217	776.6
Make, 1909	39 09 15.442	476.2	329 59 32.0	149 59 40.5	Bill	2.808425	643.3
	76 04 44.580	1,070.4	20 59 49.8	200 59 37.9	Pomona	3.102567	1,266.4
			52 13 49.8	232 13 35.9	Taste	2.824875	668.2
Broad, 1909	39 09 26.997	832.5	19 41 57.3	199 41 48.7	Bill	2.986861	970.2
	76 04 17.562	421.7	61 13 21.6	241 13 04.5	Make	2.869310	740.1
Down, 1909	39 09 04.076	125.7	73 51 38.3	253 51 19.5	Bill	2.871031	743.1
	76 04 01.456	35.0	108 42 16.7	288 41 49.4	Make	3.038693	1,093.2
			151 19 03.6	331 18 53.4	Broad	2.906180	805.7
Nils, 1909	39 09 31.919	984.3	30 42 58.4	210 42 45.0	Down	2.999436	998.7
	76 03 40.212	965.5	80 23 51.0	260 23 27.4	Broad	2.958815	909.5
Julius, 1909	39 09 21.478	662.3	56 12 14.9	236 11 53.8	Down	2.984387	964.7
	76 03 28.070	674.0	98 09 19.2	278 08 47.9	Broad	3.079345	1,200.5
			137 50 30.7	317 50 23.0	Nils	2.637836	434.3
Robertson, 1909	39 09 45.352	1,398.6	28 30 13.8	208 30 03.3	Julius	2.923124	837.8
	76 03 11.419	274.1	59 04 13.0	239 03 54.8	Nils	2.906285	805.9
Wilmers, 1909	39 09 32.766	1,010.4	60 34 16.8	240 34 00.6	Julius	2.850293	708.4
	76 03 02.372	57.0	88 21 21.6	268 20 57.7	Nils	2.958510	908.9
			150 46 07.6	330 46 01.9	Robertson	2.648135	444.8

Chester River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Southeast, 1909	39 09 47.654	1,469.6	57 45 58.4	237 45 39.2	Wilmers	2.934853	860.7
	76 02 32.049	769.4	85 42 31.4	265 42 06.5	Robertson	2.976748	947.9
Thorsten, 1909	39 10 02.682	82.7	330 35 35.2	150 35 42.1	Southeast	2.725894	532.0
	76 02 42.929	1,030.6	26 50 26.3	206 50 14.0	Wilmers	3.014489	1,033.9
			52 00 01.5	231 59 43.5	Robertson	2.938523	868.0
Rolphs, 1909	39 10 24.734	762.7	22 53 15.7	202 53 03.0	Southeast	3.093834	1,241.2
	76 02 11.942	286.7	47 34 09.0	227 33 49.4	Thorsten	3.003397	1,007.9
Blank, 1909	39 10 22.527	694.7	262 37 13.8	82 37 27.6	Rolphs	2.724278	530.0
	76 02 33.839	812.3	357 42 44.1	177 42 45.2	Southeast	3.031923	1,076.3
			19 37 34.6	199 37 28.8	Thorsten	2.812726	649.7
Evans, 1909	39 10 44.374	1,368.4	328 34 59.8	148 35 09.5	Rolphs	2.851078	709.7
	76 02 27.353	656.6	13 00 38.6	193 00 34.5	Blank	2.839777	691.5
Pan, 1909	39 10 42.030	1,296.1	261 57 47.6	81 58 01.1	Evans	2.713625	517.2
	76 02 48.687	1,168.6	301 09 32.6	121 09 55.8	Rolphs	3.013159	1,030.8
Chambers, 1909	39 11 10.325	318.4	315 06 41.8	135 07 02.8	Evans	3.052887	1,129.5
	76 03 00.563	13.5	320 18 03.6	140 18 34.3	Rolphs	3.251783	1,827.2
			336 28 47.7	156 29 04.6	Blank	3.206158	1,607.5
			341 54 32.2	161 54 39.7	Pan	2.962812	917.9
Blind, 1909	39 10 47.426	1,462.5	196 03 52.6	16 03 58.0	Chambers	2.866201	734.9
	76 03 09.036	216.9	275 22 13.7	95 22 40.1	Evans	3.002124	1,004.9
			288 48 45.0	108 48 57.9	Pan	2.712634	516.0
Skulk, 1909	39 11 08.810	271.7	266 41 42.5	86 42 03.8	Chambers	2.908945	810.9
	76 03 34.292	823.0	317 24 27.4	137 24 43.3	Blind	2.952180	895.7
Emory, 1909	39 10 59.814	1,844.5	249 06 22.5	69 06 41.6	Skulk	2.890996	778.0
	76 04 04.578	109.9	258 04 52.0	78 05 32.5	Chambers	3.195962	1,570.2
			285 59 06.7	105 59 41.8	Blind	3.142003	1,386.8
Ing, 1909	39 11 28.425	876.6	321 38 16.9	141 38 29.5	Skulk	2.887284	771.4
	76 03 54.240	1,301.7	15 42 24.4	195 42 17.9	Emory	2.962151	916.5

Pear, 1909	39 11 22.857	704.9	255 28 23.3	75 28 40.7	Ing	2.835455	684.6
	76 04 21.856	524.5	290 46 35.1	110 47 05.1	Skulk	3.086696	1,220.9
			329 43 58.9	149 44 09.8	Emory	2.915274	822.8
Radcliffe, 1909	39 11 55.585	1,714.1	343 33 15.8	163 33 22.3	Ing	2.941160	873.3
	76 04 04.542	109.0	22 22 37.8	202 22 26.9	Pear	3.038003	1,091.4
Skipper, 1909	39 11 38.554	1,188.9	0 59 32.9	180 59 32.7	Ing	2.494706	312.4
	76 03 54.015	1,296.3	54 04 49.2	234 04 31.6	Pear	2.916485	825.1
			154 18 49.6	334 18 42.9	Radcliffe	2.765532	582.8
Queen, 1909	39 12 08.049	248.2	22 43 46.2	202 43 36.2	Skipper	2.993945	986.2
	76 03 38.137	915.1	58 45 37.9	238 45 21.2	Radcliffe	2.869861	741.1
Hope, 1909	39 12 42.680	1,316.2	7 23 26.4	187 23 22.8	Queen	3.032177	1,076.9
	76 03 32.364	776.5	14 43 16.2	194 43 02.6	Skipper	3.310616	2,044.6
			27 59 56.2	207 59 35.9	Radcliffe	3.216111	1,644.8
Anne, 1909	39 12 19.619	605.0	34 49 14.4	214 49 07.9	Queen	2.638088	434.6
	76 03 27.795	666.9	49 57 18.2	229 56 55.0	Radcliffe	3.061400	1,151.9
			171 14 15.2	351 14 12.3	Hope	2.857075	719.6
Trap, 1909	39 12 30.969	955.0	35 36 09.0	215 36 02.4	Anne	2.633960	430.5
	76 03 17.350	416.3	135 04 32.4	315 04 22.9	Hope	2.707641	510.1
Marsh, 1909	39 12 57.018	1,758.3	7 53 21.9	187 53 19.0	Trap	2.909011	811.0
	76 03 12.710	304.9	17 25 22.1	197 25 12.6	Anne	3.082347	1,208.8
			46 50 29.7	226 50 17.3	Hope	2.810494	646.4
Peach, 1909	39 13 03.942	121.6	53 44 35.9	233 43 59.4	Trap	3.235309	1,719.1
	76 02 19.571	469.5	80 29 46.9	260 29 13.3	Marsh	3.111450	1,292.6
Kent, 1909	39 13 12.837	395.9	306 09 40.6	126 09 50.5	Peach	2.667338	464.9
	76 02 35.216	844.8	38 03 37.8	218 03 11.2	Trap	3.214777	1,639.7
			61 31 46.2	241 31 22.5	Marsh	3.009974	1,023.2
Lacy, 1909	39 13 34.183	1,054.1	31 59 00.8	211 58 45.5	Peach	3.041176	1,099.5
	76 01 55.296	1,326.3	55 29 55.0	235 29 29.8	Kent	3.065217	1,162.0
Tree, 1909	39 13 26.536	818.3	50 48 44.7	230 48 22.2	Peach	3.042436	1,102.6
	76 01 43.946	1,054.2	71 02 51.2	251 02 18.8	Kent	3.114082	1,300.4
			130 53 52.3	310 53 45.1	Lacy	2.556523	360.2
Morris, 1909	39 14 00.523	16.1	35 11 29.6	215 11 10.1	Tree	3.108945	1,282.5
	76 01 13.134	315.0	51 13 52.2	231 13 25.5	Lacy	3.112978	1,297.1
Round, 1909	39 13 46.863	1,445.2	58 27 51.9	238 27 25.0	Tree	3.078585	1,198.4
	76 01 01.366	32.8	73 11 07.4	253 10 33.3	Lacy	3.130776	1,351.4
			146 10 44.6	326 10 37.2	Morris	2.705073	507.1
Possum, 1909	39 13 57.669	1,778.4	60 37 46.3	240 37 30.7	Round	2.832136	679.4
	76 00 36.681	879.8	95 45 07.1	275 44 44.1	Morris	2.943850	878.7

Chester River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Buck, 1909	39 14 16.468	507.8	324 52 57.2	144 53 07.9	Possum	2.850476	708.7
	76 00 53.679	1,287.4	11 25 02.6	191 24 57.7	Round	2.969137	931.4
			43 30 00.9	223 29 48.6	Morris	2.831135	677.9
High, 1909	39 14 40.970	1,263.4	37 14 02.6	217 13 35.8	Possum	3.224565	1,677.1
	75 59 54.371	1,303.9	62 01 30.7	242 00 53.2	Buck	3.206977	1,610.6
Bluff, 1909	39 14 07.739	238.7	62 41 29.3	242 41 13.4	Possum	2.830486	676.8
	76 00 11.606	278.3	104 56 26.2	284 55 59.6	Buck	3.018839	1,044.3
			201 57 51.3	21 58 02.2	High	3.043367	1,105.0
Wreck, 1909	39 14 17.976	554.3	74 15 06.4	254 14 36.9	Bluff	3.065510	1,162.8
	75 59 24.942	598.2	135 08 20.9	315 08 02.3	High	3.000200	1,000.5
Med, 1909	39 14 38.656	1,192.1	344 30 48.7	164 30 53.4	Wreck	2.820706	661.8
	75 59 32.310	774.8	44 40 13.2	224 39 48.4	Bluff	3.127290	1,340.6
			97 41 07.5	277 40 53.6	High	2.727399	533.8
Brown, 1909	39 14 48.800	1,504.9	33 46 04.7	213 45 48.0	Wreck	3.058219	1,143.5
	75 58 58.441	1,401.4	68 56 15.8	248 55 54.4	Med	2.939693	870.3
Pine, 1909	39 14 34.650	1,068.5	64 03 30.3	244 03 02.4	Wreck	3.070142	1,175.3
	75 58 40.874	980.2	95 43 26.6	275 42 54.0	Med	3.093295	1,239.6
			136 00 40.5	316 00 29.4	Brown	2.782850	606.5
Low, 1909	39 14 40.336	1,243.9	81 35 48.3	261 35 17.0	Pine	3.078903	1,199.2
	75 57 51.404	1,232.7	99 13 43.5	279 13 01.1	Brown	3.211818	1,628.6
Knight, 1909	39 14 26.909	829.8	104 33 57.8	284 33 33.6	Pine	2.977471	949.4
	75 58 02.555	61.3	116 44 27.6	296 43 52.3	Brown	3.176269	1,500.6
			212 51 18.9	32 51 26.0	Low	2.692780	492.9
Cedar, 1909	39 14 25.168	776.1	92 47 25.5	272 46 56.4	Knight	3.043054	1,104.2
	75 57 16.564	397.2	119 14 45.3	299 14 23.3	Low	2.981141	957.5
Spry, 1909	39 14 37.328	1,151.1	1 43 26.7	181 43 26.4	Cedar	2.574227	375.2
	75 57 16.093	385.9	73 55 02.0	253 54 32.6	Knight	3.064310	1,159.6
			96 15 16.1	276 14 53.8	Low	2.930342	851.8

Bogg, 1909	39 14 35.680	1,100.3	76 43 22.2	256 42 46.0	Cedar	3.149509	1,410.9
	75 56 19.303	462.9	92 08 34.3	272 07 58.4	Spry	3.134441	1,362.8
Sutton, 1909	39 14 15.575	480.3	101 04 56.8	281 04 16.9	Cedar	3.187455	1,539.8
	75 56 13.556	325.1	114 06 14.7	294 05 35.1	Spry	3.215624	1,642.9
			167 28 03.5	347 27 59.8	Bogg	2.802858	635.1
Cause, 1910	39 14 34.562	1,065.8	63 07 04.2	243 06 33.8	Sutton	3.112196	1,294.8
	75 55 25.402	609.2	91 31 54.8	271 31 20.7	Bogg	3.111615	1,293.0
Can, 1910	39 14 43.899	1,353.8	334 33 50.4	154 33 54.0	Cause	2.503591	318.9
	75 55 31.113	746.1	49 22 07.9	229 21 41.1	Sutton	3.127512	1,341.3
			77 37 56.3	257 37 25.8	Bogg	3.073020	1,183.1
Snow, 1910	39 14 42.342	1,305.7	60 29 39.2	240 29 28.0	Cause	2.687627	487.1
	75 55 07.724	185.2	94 53 47.2	274 53 32.4	Can	2.750444	562.9
Mill, 1910	39 14 30.774	949.0	100 26 18.9	280 26 02.2	Cause	2.809483	644.9
	75 54 58.956	1,413.8	117 41 48.7	297 41 28.4	Can	2.939981	870.9
			149 29 00.4	329 28 54.9	Snow	2.617103	414.1
Owen, 1910	39 14 34.941	1,077.5	78 32 08.6	258 31 51.9	Mill	2.810523	646.4
	75 54 32.538	780.3	105 08 17.3	285 07 55.1	Snow	2.941568	874.1
Plum, 1910	39 14 47.068	1,451.5	36 30 44.4	216 30 37.1	Owen	2.677707	476.1
	75 54 20.994	503.4	61 06 24.5	241 06 00.5	Mill	3.016953	1,039.8
			82 35 40.2	262 35 10.7	Snow	3.053091	1,130.0
Supplementary points							
Kent Island wharf house belfry, 1896	39 00 45.192	1,393.6	248 17 18.8	68 19 14.9	Beech Point	3.678902	4,774.2
	76 17 38.638	929.6	272 48 40.2	92 51 35.1	Narrows Point	3.825625	6,693.1
			302 33 22.2	122 35 49.0	Long Point	3.823521	6,660.7
Three-chimney house, east chimney, 1896	39 00 38.570	1,189.5	247 12 53.7	67 14 56.5	Beech Point	3.706550	5,088.0
	76 17 49.259	1,185.2	271 01 20.3	91 04 21.9	Narrows Point	3.841462	6,941.6
			299 56 04.2	119 58 37.7	Long Point	3.830800	6,773.3
Wright's house, west chimney, 1896	38 58 16.364	504.6	181 24 37.0	1 24 41.1	Beach Point	3.803200	6,356.2
	76 14 40.743	980.8	209 27 08.6	29 28 11.5	Narrows Point	3.689374	4,890.7
			233 00 58.4	53 01 33.2	Long Point	3.222090	1,667.6
Jackson Creek wharf house ventilator, 1896	38 58 15.227	469.5	151 45 25.7	331 45 11.1	Long Point	3.071318	1,178.5
	76 13 22.232	535.2	186 51 02.6	6 51 16.1	Narrows Point	3.635912	4,324.3
			207 35 25.6	27 36 27.4	Hail Point 2	3.707364	5,097.6
Clarke's house, north chimney, 1896	38 58 17.289	533.1	118 50 45.5	298 49 59.2	Long Point	3.305438	2,020.4
	76 12 31.878	767.4	170 39 33.8	350 39 15.6	Narrows Point	3.632118	4,286.6
			194 28 12.7	14 28 42.8	Hail Point 2	3.662753	4,599.9
Williams windmill, 1896 [1]	39 01 44.60	1,375.4	10 07 01	190 06 43	Lords Gift 2	3.59182	3,907
	76 09 55.93	1,345.3	53 19 19	233 18 10	Hail Point 2	3.51124	3,245

[1] No check on this position.

Chester River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
Nichols house, southeast chimney [1], 1896	39 06 21.83	673.2	338 31 39	158 32 10	Holton Point	3.49963	3,160
	76 09 49.96	1,200.4	16 28 23	196 28 13	Nichols Point	3.13531	1,366
Barn cupola, finial, 1896	38 59 31.447	969.7	74 55 52.2	254 53 44.9	Long Point	3.702575	5,041.7
	76 10 23.146	557.1	117 08 04.5	297 06 24.3	Narrows Point	3.629628	4,262.1
			138 03 15.2	318 02 24.3	Hail Point 2	3.464492	2,914.0
Bogles wharf house, flag, 1896	39 02 02.053	63.3	187 42 14.9	7 42 36.9	Grays Inn Point	3.796757	6,262.6
	76 12 13.307	320.0	204 31 25.6	24 32 45.8	Nichols Point	3.867254	7,366.4
			231 05 22.3	51 06 05.5	Piney Point 2	3.326565	2,121.1
Westcott's windmill, 1909	39 07 16.271	501.8	356 54 07.0	176 54 10.9	Chester	3.433358	2,712.4
	76 07 28.152	676.3	22 42 49.1	202 42 21.6	Evans	3.433411	2,712.8
			43 45 39.3	223 45 00.2	Stratton	3.332806	2,151.8
Robertson's windmill, 1909	39 09 49.385	1,522.9	314 43 28.4	134 43 42.0	Wilmers	2.862285	728.3
	76 03 23.923	574.3	6 35 58.3	186 35 55.7	Julius	2.937685	866.3
			35 59 00.7	215 58 50.4	Nils	2.823226	665.6
Chestertown, Wash. Col. cupola, flagstaff, 1896	39 13 03.20	98.7	80 40 57	260 36 17	Clough	4.031659	10,756.2
	76 04 04.98	119.4	190 45 47	10 46 42	Still Pond	4.042840	11,036.5
Chestertown, M. E. Church spire, 1896	39 12 37.48	1,155.8	84 52 50	264 48 11	Clough	4.026420	10,627.2
	76 04 06.20	148.7	190 11 07	10 12 02	Still Pond	4.072694	11,822.1
Chestertown, M. P. Church spire, 1896	39 12 37.13	1,145.0	84 54 12	264 49 35	Clough	4.023487	10,555.7
	76 04 09.16	219.7	190 30 47	10 31 44	Still Pond	4.073546	11,845.3
Centerville standpipe, 1896	39 02 43.33	1,336.2	148 08 05	328 03 21	Clough	4.310850	20,457.4
	76 03 57.24	1,376.4	272 36 12	92 39 08	Hope	3.827382	6,720.2
Centerville, Episcopal Church spire, 1896	39 02 33.82	1,043.0	149 01 44	328 57 05	Clough	4.313969	20,604.8
	76 04 05.44	130.8	270 06 03	90 09 04	Hope	3.839493	6,910.3
Centerville, M. P. Church spire, 1896	39 02 34.45	1,062.5	148 44 53	328 40 12	Clough	4.314784	20,643.5
	76 04 01.00	24.0	270 15 51	90 18 49	Hope	3.832737	6,803.6

Grays Inn Creek

Principal points														
Inn, 1909	39	05	26.429	815.0	287	10	12.1	107	11	56.6	Holton Point	3.620138	4,170.0
	76	11	47.599	1,143.9	336	22	55.7	156	23	38.3	Gordon	3.608465	4,059.4
Little Gum, 1909	39	05	08.134	250.8	226	33	54.7	46	34	10.3	Inn	2.914131	820.6
	76	12	12.394	297.9	278	16	47.9	93	18	48.0	Holton Point	3.665430	4,628.4
					324	50	18.0	144	51	16.2	Gordon	3.586508	3,859.3
Tray, 1909	39	05	30.986	955.5	314	49	42.6	134	49	46.3	Inn	2.209596	199.3
	76	11	53.482	1,285.3	32	49	23.2	212	49	11.3	Little Gum	2.923535	838.6
Weeks, 1909	39	05	26.138	806.0	259	03	31.7	79	03	52.0	Tray	2.896484	787.9
	76	12	25.672	617.0	269	26	04.4	89	26	28.4	Inn	2.961438	915.0
					330	06	31.4	150	06	39.8	Little Gum	2.806428	640.4
Island, 1909	39	05	46.210	1,425.0	323	38	14.8	143	38	23.9	Tray	2.765657	583.0
	76	12	07.865	189.0	34	39	36.8	214	39	25.6	Weeks	2.876515	752.5
Spring, 1909	39	05	33.993	1,048.3	236	36	11.9	56	36	26.9	Island	2.835376	684.5
	76	12	31.646	760.5	275	46	10.0	95	46	34.1	Tray	2.964651	921.8
					329	20	46.0	149	20	49.8	Weeks	2.449597	281.6
Fore, 1909	39	05	57.029	1,758.7	303	17	07.6	123	17	21.0	Island	2.783832	607.9
	76	12	29.012	697.2	5	05	33.9	185	05	32.3	Spring	2.853215	713.2
Lucy, 1909	39	05	41.929	1,293.0	216	10	29.2	36	10	38.1	Fore	2.761071	576.9
	76	12	43.181	1,037.7	261	09	20.5	81	09	42.8	Island	2.933938	858.9
					311	26	23.5	131	26	30.8	Spring	2.567955	369.8
Cut, 1909	39	06	07.080	218.3	302	27	03.3	122	27	16.1	Fore	2.761642	577.6
	76	12	49.296	1,184.5	349	16	19.7	169	16	23.6	Lucy	2.897294	789.4
Goose, 1909	39	06	01.292	39.8	243	20	02.7	63	20	12.0	Cut	2.599553	397.7
	76	13	04.086	98.2	278	51	47.7	98	52	09.8	Fore	2.930962	853.0
					319	55	27.5	139	55	40.7	Lucy	2.892280	780.3
Prussian, 1909	39	06	16.313	503.1	299	00	24.1	119	00	37.6	Cut	2.768752	587.2
	76	13	10.666	256.3	341	09	14.1	161	09	18.3	Goose	2.689707	489.4
No Road, 1909	39	06	19.231	593.0	347	55	32.3	167	55	34.4	Cut	2.583404	383.2
	76	12	52.632	1,264.6	26	27	15.9	206	27	08.7	Goose	2.790900	617.9
					78	16	20.1	258	16	08.7	Prussian	2.645984	442.6
Gray, 1909	39	06	28.081	866.0	297	34	34.7	117	34	48.4	No Road	2.770464	589.5
	76	13	14.378	345.5	346	11	33.7	166	11	36.0	Prussian	2.572487	373.7
Herring, 1909	39	06	39.918	1,231.0	345	16	32.7	165	16	37.1	No Road	2.819271	659.6
	76	12	59.609	1,432.2	20	03	08.9	200	03	01.9	Prussian	2.889226	774.9
					44	11	26.5	224	11	17.2	Gray	2.706780	509.1

[1] No check on this position.

Langford Creek

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Deep Cove, 1909	39 05 47.737	1,472.1	280 37 29.1	100 38 03.1	Langford	3.120130	1,318.7
	76 11 01.444	34.7	303 18 11.0	123 19 26.4	Holton Point	3.536513	3,439.6
			353 16 05.6	173 16 19.1	Gordon	3.644145	4,407.0
Peach, 1909	39 06 02.375	73.2	344 05 01.1	164 05 06.3	Langford	2.858743	722.3
	76 10 15.756	378.6	67 39 11.0	247 38 42.2	Deep Cove	3.074477	1,187.1
Snub, 1909	39 06 06.937	213.9	277 40 54.6	97 41 22.0	Peach	3.021944	1,051.8
	76 10 59.136	1,421.0	303 57 02.6	123 57 35.2	Langford	3.174795	1,495.5
			5 21 08.9	185 21 07.5	Deep Cove	2.774283	594.7
Drum, 1909	39 06 44.659	1,377.2	356 05 15.9	176 05 18.3	Peach	3.116268	1,307.0
	76 10 19.467	467.7	39 19 59.3	219 19 34.3	Snub	3.177211	1,503.9
Major, 1909	39 06 32.955	1,016.3	24 01 44.7	204 01 33.7	Peach	3.013883	1,032.5
	76 09 58.260	1,399.8	61 15 32.5	241 14 54.1	Snub	3.222280	1,668.3
			125 18 46.6	305 18 33.2	Drum	2.795464	624.4
Neck, 1909	39 07 08.353	257.6	4 40 34.0	184 40 31.7	Major	3.039508	1,095.2
	76 09 54.544	1,310.3	39 20 09.2	219 19 53.5	Drum	2.975284	944.7
Davis, 1909	39 07 15.905	490.5	290 39 29.8	110 39 46.0	Neck	2.819562	660.0
	76 10 20.252	486.5	338 15 02.0	158 15 15.9	Major	3.154108	1,426.0
			358 52 45.9	178 52 46.4	Drum	2.983960	963.7
Isle, 1909	39 07 39.347	1,213.4	338 51 13.6	158 51 23.3	Neck	3.010635	1,024.8
	76 10 09.933	238.6	18 55 37.1	198 55 30.6	Davis	2.883225	764.2
King, 1909	39 07 37.538	1,157.6	9 03 51.0	189 03 47.2	Neck	2.959700	911.
	76 09 48.567	1,166.6	48 46 04.4	228 45 44.4	Davis	3.005223	1,012.
			96 12 22.8	276 12 09.3	Isle	2.712847	516.
Hornor, 1909	39 07 59.640	1,839.2	319 38 58.1	139 39 13.3	King	2.951491	894.3
	76 10 12.673	304.4	353 59 43.5	173 59 45.2	Isle	2.798814	629.2
Eagle, 1909	39 07 58.046	1,790.0	264 09 09.6	84 09 22.2	Hornor	2.683531	482.5
	76 10 32.659	784.4	300 50 24.8	120 50 52.6	King	3.091148	1,233.5
			316 34 05.8	136 34 20.1	Isle	2.899837	794.0
West, 1909	39 08 11.967	369.0	327 16 56.5	147 17 02.9	Hornor	2.654956	451.8
	76 10 22.840	548.5	28 46 57.4	208 46 51.2	Eagle	2.690005	489.8
Ford, 1909	39 08 07.350	226.7	258 10 10.7	78 10 28.6	West	2.841694	694.5
	76 10 51.144	1,228.4	284 25 38.1	104 26 02.4	Hornor	2.979597	954.1
			302 52 12.1	122 52 23.8	Eagle	2.723148	528.6
Mill, 1909	39 08 21.459	661.8	306 16 40.2	126 16 50.7	West	2.694357	494.7
	76 10 39.446	947.3	32 51 11.1	212 51 03.7	Ford	2.714267	517.9
Kinsley, 1909	39 08 20.208	623.2	264 56 38.6	84 56 50.1	Mill	2.641520	438.0
	76 10 57.614	1,383.7	286 55 19.5	106 55 41.5	West	2.941003	873.0
			338 35 54.9	158 35 59.0	Ford	2.629274	425.9
Nat, 1909	39 08 29.410	906.9	330 40 11.2	150 40 14.8	Mill	2.449091	281.2
	76 10 45.182	1,085.1	46 27 18.1	226 27 10.2	Kinsley	2.614816	411.9
Whale, 1909	39 08 31.540	972.6	283 14 02.9	103 14 10.2	Nat	2.457631	286.8
	76 10 56.808	1,364.2	306 42 12.4	126 42 23.4	Mill	2.716096	520.1
			3 10 08.8	183 10 08.3	Kinsley	2.544061	350.0
Bungay, 1909	39 08 39.112	1,206.1	331 38 31.3	151 38 35.5	Nat	2.531461	340.0
	76 10 51.906	1,246.5	26 45 19.1	206 45 16.0	Whale	2.417498	261.5
Locust, 1909	39 08 40.331	1,243.7	22 29 38.4	202 29 34.7	Nat	2.561711	364.5
	76 10 39.375	945.6	57 04 33.5	237 04 22.5	Whale	2.697908	498.8
			82 52 50.1	262 52 42.2	Bungay	2.481830	303.3
Lawyer, 1909	39 06 31.677	976.9	268 09 09.4	88 09 41.5	Major	3.088373	1,225.7
	76 10 49.246	1,183.2	318 18 37.1	138 18 58.2	Peach	3.082777	1,210.0
			17 18 01.4	197 17 55.1	Snub	2.902590	799.1
Corn, 1909	39 07 19.921	614.3	55 30 32.6	235 30 19.0	Neck	2.799287	629.9
	76 09 32.932	791.1	145 20 38.8	325 20 29.0	King	2.819848	660.5
Ash, 1909	39 07 42.610	1,314.0	342 33 13.3	162 33 19.1	Corn	2.865342	733.4
	76 09 42.085	1,010.9	15 49 07.2	195 48 59.4	Neck	3.040590	1,098.0
			44 52 25.7	224 52 21.7	King	2.343769	220.7
Noth, 1909	39 07 39.692	1,224.0	33 39 23.8	213 39 13.1	Corn	2.864781	732.5
	76 09 16.033	385.1	98 11 05.5	278 10 49.0	Ash	2.800857	632.2
Wann, 1909	39 07 33.710	1,039.5	58 36 07.6	238 35 49.3	Corn	2.911752	816.1
	76 09 03.933	94.5	106 40 31.9	286 40 07.8	Ash	2.980751	956.6
			122 24 14.3	302 24 06.7	Noth	2.536884	344.3
Leary, 1909	39 07 51.681	1,593.7	358 31 14.0	178 31 14.4	Wann	2.743795	554.4
	76 09 04.529	108.8	36 46 38.6	216 46 31.3	Noth	2.664231	461.6
Cult, 1909	39 07 55.754	1,719.3	28 23 21.9	208 23 12.3	Wann	2.888012	772.7
	76 08 48.638	1,168.2	53 01 57.5	233 01 40.2	Noth	2.915714	823.6
			71 47 08.5	251 46 58.5	Leary	2.604020	401.8

Langford Creek—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Nest, 1909	39 08 07.925	244.4	352 48 05.9	172 48 07.1	Cult	2.577852	378.3
	76 08 50.612	1,215.6	33 42 55.1	213 42 46.3	Leary	2.779754	602.2
Hoo, 1909	39 08 12.901	397.8	37 20 00.1	217 19 49.5	Cult	2.822822	665.0
	76 08 31.848	764.9	50 11 11.1	230 10 50.5	Leary	3.009419	1,021.9
			71 12 00.3	251 11 48.5	Nest	2.677673	476.1
Woll, 1909	39 08 19.696	607.4	302 24 12.2	122 24 20.9	Hoo	2.592241	391.1
	76 08 45.595	1,095.0	18 21 49.7	198 21 46.5	Nest	2.582604	382.5
Ide, 1909	39 08 25.387	782.9	17 21 29.3	197 21 26.2	Hoo	2.605761	403.4
	76 08 26.837	644.5	46 40 53.3	226 40 38.3	Nest	2.894799	784.9
			68 43 09.8	248 42 58.0	Woll	2.684380	483.5
Harp, 1909	39 08 30.926	953.7	289 26 02.5	109 26 15.3	Ide	2.710428	513.4
	76 08 46.995	1,128.6	354 27 22.0	174 27 22.9	Woll	2.541500	347.9
Philip, 1909	39 08 39.019	1,203.3	326 13 42.7	146 13 50.1	Ide	2.703900	505.7
	76 08 38.542	925.6	15 52 10.6	195 52 06.2	Woll	2.792024	619.5
			39 07 35.4	219 07 30.1	Harp	2.507442	321.7
Gut, 1909	39 08 51.150	1,577.4	321 34 08.4	141 34 16.2	Philip	2.679012	477.5
	76 08 50.902	1,222.4	351 26 35.7	171 26 38.2	Harp	2.799801	630.7
Clay, 1909	39 08 47.044	1,450.7	253 44 48.9	73 45 00.3	Gut	2.655567	452.4
	76 09 08.991	215.9	288 41 44.1	108 42 03.3	Philip	2.887585	771.9
			313 15 20.4	133 15 34.3	Harp	2.860515	725.3
Lovely, 1909	39 09 02.005	61.8	311 44 33.1	131 44 42.9	Gut	2.701399	502.8
	76 09 06.526	156.7	333 55 24.4	153 55 36.7	Harp	3.028171	1,067.0
			7 18 42.4	187 18 40.8	Clay	2.667610	465.2

Corsica River

Principal points														
Corsica, 1909	39	05	18.127	559.0	29	13	28.2	209	13	13.9	Holton Point	3.048589	1,118.4
	76	08	39.128	940.4	107	30	37.1	287	29	41.4	Langford	3.347768	2,227.2
					136	33	59.5	316	33	18.1	Quaker	3.360845	2,295.3
Earle, 1909	39	04	47.270	1,457.7	88	28	52.7	268	28	28.5	Holton Point	2.964742	922.0
	76	08	23.499	564.8	158	27	31.3	338	27	21.4	Corsica	3.009883	1023.0
Swepson, 1909	39	05	03.092	95.3	29	24	27.2	209	24	20.0	Earle	2.748248	560.1
	76	08	12.058	289.8	66	49	26.6	246	48	55.2	Holton Point	3.114531	1,301.8
					125	28	35.4	305	28	18.3	Corsica	2.902499	798.9
Hydrographic, 1909	39	04	34.552	1,065.5	115	22	26.2	295	22	04.5	Earle	2.961581	915.3
	76	07	49.092	1,180.1	147	54	19.4	327	54	04.9	Swepson	3.016578	1,038.9
Engineer, 1909	39	05	02.723	84.0	8	09	10.9	188	09	07.6	Hydrographic	2.943303	877.6
	76	07	43.914	1,055.5	63	23	57.6	243	23	32.6	Earle	3.026994	1,064.1
					90	57	56.6	270	57	38.8	Swepson	2.830291	676.5
Ruth, 1909	39	04	31.587	974.0	97	46	16.7	277	45	59.1	Hydrographic	2.830106	676.2
	76	07	21.217	510.0	150	23	50.2	330	23	35.9	Engineer	3.043096	1,104.3
Ship, 1909	39	04	52.443	1,617.2	39	11	04.7	219	10	51.0	Ruth	2.918928	829.7
	76	06	59.409	1,428.0	65	12	27.1	245	11	55.8	Hydrographic	3.119094	1,315.5
					106	30	41.7	286	30	13.7	Engineer	3.047544	1,115.7
Melfield, 1909	39	04	26.371	813.2	108	27	22.1	288	27	09.5	Ruth	2.705987	508.1
	76	07	01.165	28.0	183	00	21.2	3	00	22.3	Ship	2.905850	805.1
Bath, 1909	39	04	47.480	1,464.1	30	53	31.8	210	53	21.6	Melfield	2.879074	758.5
	76	06	44.964	1,080.8	60	39	00.6	240	38	37.8	Ruth	2.999003	999.8
					113	47	29.2	293	47	20.1	Ship	2.579137	379.4

Reeds Creek

Principal points														
Bird, 1909	39	03	42.875	1,322.1	159	16	32.9	339	15	54.7	Deep Cove	3.614573	4,116.9
	76	10	00.819	19.7	177	26	48.1	357	26	43.9	Langford	3.557598	3,610.8
Reeds, 1909	39	03	54.693	1,686.6	62	25	50.8	242	25	32.5	Bird	2.896170	787.4
	76	09	31.789	764.3	148	17	04.1	328	16	07.6	Deep Cove	3.612600	4,098.3
					165	10	18.5	345	09	56.0	Langford	3.525627	3,354.5
Grove, 1909	39	03	27.724	854.9	140	24	19.6	320	24	09.5	Bird	2.782710	606.3
	76	09	44.746	1,075.9	200	31	59.3	20	32	07.5	Reeds	2.948449	888.1
Crow, 1909	39	03	22.190	684.3	194	22	52.1	14	22	56.4	Bird	2.818550	658.5
	76	10	07.622	183.3	220	40	39.1	40	41	01.7	Reeds	3.121121	1,321.7
					252	45	43.7	72	45	58.1	Grove	2.760344	575.9

West River

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Curtis, 1906	38 51 12.872	396.9	150 23 59.0	330 23 32.8	Dutchman 2	3.309456	2,039.2
	76 29 53.800	1,297.3	226 54 38.4	46 56 58.7	Thomas Point Shoal Lighthouse	3.867862	7,376.7
			283 26 48.3	103 30 48.4	Bloody Point Bar Lighthouse	3.977359	9,492.0
Ches, 1906	38 51 47.001	1,449.3	229 52 15.0	49 52 37.3	Dutchman 2	3.048471	1,118.1
	76 31 11.042	266.2	299 27 48.2	119 28 36.7	Curtis	3.330251	2,139.2
Beta, 1906	38 51 06.949	214.3	164 13 36.0	344 13 26.9	Ches	3.108366	1,283.4
	76 30 56.572	1,364.1	194 30 26.1	14 30 39.3	Dutchman 2	3.305366	2,020.1
			263 06 49.3	83 07 28.7	Curtis	3.183160	1,524.6
Shell, 1906	38 51 02.269	70.0	227 10 15.8	47 10 54.5	Ches	3.307344	2,029.3
	76 32 12.770	307.9	264 24 54.0	84 26 21.2	Curtis	3.527239	3,367.0
			265 30 08.6	85 30 56.4	Beta	3.265546	1,843.1
Alpha, 1906	38 51 44.565	1,374.2	289 48 43.8	109 49 54.4	Curtis	3.459692	2,882.0
	76 31 46.245	1,115.0	26 07 26.0	206 07 09.4	Shell	3.162152	1,452.6
Cove, 1906	38 51 01.540	47.5	91 55 21.7	271 55 04.3	Shell	2.826895	671.3
	76 31 44.948	1,083.9	178 38 58.7	358 38 57.9	Alpha	3.122908	1,327.1
			210 14 48.9	30 15 10.2	Ches	3.210282	1,622.9
Counallor, 1906	38 50 38.426	1,184.9	187 15 13.0	7 15 15.4	Shell	2.869905	741.1
	76 32 16.650	401.5	227 00 17.3	47 00 37.2	Cove	3.019199	1,045.2
Apple, 1906	38 50 27.540	849.2	126 09 11.9	306 08 59.9	Counallor	2.755150	569.0
	76 31 57.598	1,389.1	161 08 18.8	341 08 09.2	Shell	3.053727	1,131.7
			196 13 20.1	16 13 28.0	Cove	3.038182	1,091.9
Chalk, 1906	38 50 15.551	497.5	177 56 00.0	357 55 59.3	Counallor	2.848701	705.8
	76 32 15.595	376.1	207 31 30.0	27 31 49.2	Cove	3.203885	1,599.1
			229 34 39.3	49 34 50.6	Apple	2.755981	570.1
Supplementary point							
Windmill, Lerch, 1906	38 50 16.788	517.7	86 24 36.8	266 24 19.4	Chalk	2.784517	608.9
	76 31 50.400	1,215.5	136 30 22.6	316 30 04.5	Counallor	2.963683	919.8
			158 57 43.8	338 57 28.1	Shell	3.276849	1,891.7

Rhode River

Principal points												
Cato, 1906	38	52	10.619	327.4	324	34	54.4	144	35	27.4	Curtis	3.339438	2,184.9
	76	30	46.313	1,116.5	7	10	51.4	187	10	45.0	Beta	3.296418	1,978.9
					39	18	21.9	219	18	06.4	Ches	2.973671	941.2
Delta, 1906	38	52	35.807	1,104.1	340	12	36.0	160	12	43.3	Cato	2.916692	825.5
	76	30	57.906	1,395.8	11	53	00.8	191	52	52.6	Ches	3.186939	1,537.9
Rhode, 1906	38	52	18.389	567.0	206	41	24.8	26	41	31.8	Delta	2.779004	601.2
	76	31	09.108	219.6	293	33	17.5	113	33	31.8	Cato	2.777777	599.5
					2	45	27.1	182	45	25.9	Ches	2.986319	969.0
Turf, 1906	38	52	51.272	1,581.0	308	07	01.2	128	07	17.0	Delta	2.887918	772.5
	76	31	23.120	557.3	341	34	33.0	161	34	41.8	Rhode	3.028888	1,068.8
Etna, 1906	38	52	56.242	1,734.3	342	29	01.5	162	29	06.7	Delta	2.820046	660.8
	76	31	06.156	148.4	3	29	19.2	183	29	17.4	Rhode	3.067968	1,169.4
					69	27	23.9	249	27	13.3	Turf	2.640147	436.7
Calf, 1906	38	53	17.483	539.1	306	42	23.4	126	42	46.3	Etna	3.039715	1,095.8
	76	31	42.602	1,026.8	320	01	21.8	140	01	49.8	Delta	3.224523	1,677.0
					329	50	32.8	149	50	45.0	Turf	2.970696	934.8
Supplementary point													
Cupola, 1906	38	52	29.689	915.5	227	02	16.3	47	02	34.9	Turf	2.989727	976.6
	76	31	52.771	1,272.1	233	54	53.7	53	55	22.8	Etna	3.143112	1,390.3
					261	52	35.6	81	53	10.0	Delta	3.125786	1,335.9

South River

Principal points												
Gowan 2, 1898	38	53	13.753	424.1	233	31	22.1	53	32	43.8	Thomas 2	3.592032	3,908.7
	76	29	21.328	514.1	257	05	04.2	77	09	42.2	Price 2	4.039204	10,944.7
					294	58	33.3	115	02	40.6	Bloody 2	4.020525	10,484.0
					0	51	35.5	180	51	33.2	Horseshoe 2	3.748948	5,609.8
Arundel, 1898	38	54	42.163	1,300.1	286	09	29.9	106	10	05.9	Thomas 2	3.160838	1,448.2
	76	28	08.618	207.6	32	44	05.4	212	43	19.7	Gowan 2	3.510645	3,240.7
Selby, 1898	38	54	31.433	969.2	261	27	22.1	81	28	19.6	Arundel	3.348145	2,229.2
	76	29	40.114	966.5	304	24	58.3	124	29	17.4	Bloody 2	4.081680	12,059.2
					349	17	47.5	169	17	59.3	Gowan 2	3.386995	2,437.8

South River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Gowan 3, 1899	38 53 13.766	424.5	169 27 27.5	349 27 15.9	Selby	3.386699	2,436.1
	76 29 21.615	521.0	212 49 42.4	32 50 28.2	Arundel	3.511102	3,244.2
			254 07 52.9	74 09 52.8	Thomas Point Shoal Lighthouse	3.680720	4,794.2
			257 05 40.4	77 10 18.4	Price 2	4.039467	10,951.3
			294 57 42.9	115 01 50.2	Bloody 2	4.020791	10,490.4
			0 47 21.6	180 47 19.6	Horseshoe 2	3.748972	5,610.1
Gowan (1906), 1906	38 53 13.61	419.7	234 58 16	54 58 16	Gowan 3	0.91731	8.27
	76 29 21.90	527.8	254 05 56	74 07 56	Thomas Point Shoal Lighthouse	3.681426	4,802.0
Thomas 3, 1899	38 54 29.134	898.3	303 52 23.8	123 53 03.1	Thomas Point Shoal Lighthouse	3.260072	1,820.0
	76 27 12.954	312.1	21 50 46.6	201 49 23.8	Horseshoe 2	3.931805	8,546.8
			53 09 22.9	233 08 02.1	Gowan 3	3.588255	3,874.9
			106 40 51.2	286 40 16.2	Arundel	3.146146	1,400.1
Hill 2, 1898	38 55 26.703	823.4	296 35 42.6	116 38 07.6	Thomas Point Shoal Lighthouse	3.794289	6,227.1
	76 30 01.317	31.7	296 49 24.2	116 50 35.0	Arundel	3.483257	3,042.7
			343 18 48.1	163 19 01.4	Selby	3.250234	1,779.2
			346 51 38.4	166 52 03.5	Gowan 3	3.624226	4,209.5
Mayo, 1899	38 55 12.482	384.9	240 43 32.4	60 43 52.8	Hill 2	2.952751	896.9
	76 30 33.795	814.2	314 22 44.3	134 23 18.0	Selby	3.257598	1,809.7
Switch, 1899	38 55 55.300	1,705.1	303 11 34.0	123 12 09.2	Hill 2	3.206979	1,610.6
	76 30 57.266	1,379.3	324 17 20.0	144 18 08.4	Selby	3.503079	3,184.8
			336 49 01.3	156 49 16.0	Mayo	3.157257	1,436.3
Cedar, 1899	38 55 55.534	1,712.4	270 25 04.2	90 25 29.8	Switch	2.990982	979.4
	76 31 37.929	913.6	290 53 58.5	110 54 59.3	Hill 2	3.396411	2,491.2
			310 40 04.5	130 40 44.8	Mayo	3.308982	2,037.0
Brewer, 1899	38 56 41.233	1,271.4	301 04 06.2	121 05 07.5	Switch	3.438379	2,744.0
	76 32 34.846	839.3	301 50 52.0	121 52 28.6	Hill 2	3.638874	4,353.9
			313 10 35.9	133 11 52.0	Mayo	3.601940	3,998.9
			315 47 10.8	135 47 46.6	Cedar (1899)	3.293572	1,965.9
Waggaman, 1899	38 56 47.748	1,472.3	317 57 39.4	137 58 17.4	Switch	3.337952	2,177.5
	76 31 57.803	1,392.0	321 42 48.7	141 44 15.2	Selby	3.728712	5,354.4
			343 26 33.0	163 26 45.5	Cedar (1899)	3.225244	1,679.7
			77 18 39.9	257 18 16.6	Brewer	2.961141	914.4
Almshouse, 1899	38 56 28.016	863.9	133 32 36.5	313 32 25.3	Brewer	2.772076	591.7
	76 32 17.037	410.3	217 16 42.4	37 16 54.5	Waggaman	2.883518	764.7
			297 41 45.1	117 42 35.1	Switch	3.336467	2,170.0
			316 45 20.7	136 45 45.3	Cedar (1899)	3.138283	1,374.9
Ginger, 1899	38 57 03.570	110.1	292 31 09.6	112 31 40.3	Waggaman	3.105060	1,273.7
	76 32 46.660	1,123.6	308 37 04.5	128 38 13.3	Switch	3.527935	3,372.4
			316 13 06.8	136 15 04.0	Selby	3.812656	6,496.1
			316 56 15.1	136 57 28.6	Mayo	3.670970	4,687.8
			321 43 17.5	141 44 00.7	Cedar (1899)	3.426897	2,672.4
			326 56 51.0	146 57 09.6	Almshouse	3.116623	1,308.0
			337 33 23.1	157 33 30.5	Brewer	2.872305	745.3
Larramore, 1899	38 57 06.404	197.5	273 33 54.6	93 34 31.2	Ginger	3.147121	1,403.2
	76 33 44.820	1,079.3	282 34 28.7	102 35 36.1	Waggaman	3.421682	2,640.5
			294 43 34.8	114 44 18.8	Brewer	3.268396	1,855.2
Hill (1906), 1906	38 55 26.717	823.8	296 36 58.5	116 38 10.0	Arundel	3.486514	3,065.6
	76 30 02.372	57.1	342 32 12.4	162 32 26.4	Selby	3.252155	1,787.1
Mayo (1906), 1906	38 55 12.160	375.0	239 10 05.4	59 10 25.0	Hill (1906)	2.942474	875.9
	76 30 33.596	809.4	284 49 13.7	104 50 44.8	Arundel	3.557892	3,613.2
			314 15 37.4	134 16 11.0	Selby	3.255103	1,799.3
Waggaman (1906), 1906	38 56 47.982	1,479.6	318 09 24.6	138 10 02.5	Switch	3.338545	2,180.4
	76 31 57.655	1,388.4	37 10 05.9	217 09 53.7	Almshouse	2.887969	772.6
Cedar, 1906	38 55 55.272	1,704.4	136 53 28.0	316 53 03.3	Almshouse	3.140870	1,383.2
	76 31 37.789	910.2	163 35 58.4	343 35 45.9	Waggaman (1906)	3.229008	1,694.4
			269 56 36.4	89 57 01.8	Switch	2.989477	976.1
Bridge, 1906	38 56 56.327	1,737.0	115 45 29.0	295 45 12.2	Larramore	2.854343	715.1
	76 33 18.075	435.2	253 32 56.2	73 33 16.0	Ginger	2.896946	788.8
Brewer (1906), 1906	38 56 41.167	1,269.5	114 17 58.1	294 17 31.1	Bridge	3.055465	1,136.2
	76 32 35.071	844.6	158 00 13.6	338 00 06.3	Ginger	2.872199	745.1
Ximo, 1906	38 57 09.559	294.8	288 03 26.2	108 03 41.0	Ginger	2.775090	595.8
	76 33 10.183	245.2	315 59 43.5	136 00 05.6	Brewer (1906)	3.085347	1,217.2
			24 38 23.5	204 58 18.5	Bridge	2.653322	450.1
			83 20 52.6	263 20 30.8	Larramore	2.924119	839.7
Yazoo, 1906	38 57 20.924	645.2	299 49 52.4	119 50 08.4	Ximo	2.847834	704.4
	76 33 35.561	856.2	330 57 42.8	150 57 53.8	Bridge	2.938273	867.5
			26 23 12.3	206 28 06.5	Larramore	2.699129	500.2
Taylor, 1906	38 57 15.720	484.8	256 31 13.4	76 31 30.9	Yazoo	2.837906	688.5
	76 34 03.368	81.1	278 26 00.1	98 26 33.6	Ximo	3.112152	1,294.6
			302 44 58.6	122 45 10.3	Larramore	2.725128	531.0

South River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points	° ′ ″		° ′ ″	° ′ ″			
West chimney, 1899	38 56 50.876	1,568.7	133 50 14.3	313 49 53.5	Taylor	3.044139	1,107.0
	76 33 30.227	727.9	143 43 36.7	323 43 27.4	Larramore	2.773736	593.9
			249 32 05.9	69 32 33.3	Ginger	3.049129	1,119.8
White flagstaff, gilt ball, 1899 [1]	38 57 38.80	1,196.3	290 50 41	110 51 30	Taylor	3.300537	1,997.7
	76 35 20.92	503.8	293 55 16	113 57 01	Brewer	3.641011	4,375.3
Taylorsville Wharf, house, north gable, 1899 [1]	38 57 10.75	331.5	249 46 49	69 47 00	Taylor	2.648250	444.9
	76 34 20.72	499.1	278 48 46	98 49 09	Larramore	2.941971	874.9
Taylorsville Schooner Wharf, house, n. gable, 1899. [1]	38 57 15.35	473.3	268 49 27	88 49 42	Taylor	2.767432	585.4
	76 34 27.69	666.8	284 57 23	104 57 50	Larramore	3.028818	1,068.6
Lees Wharf, house, northeast gable, 1899	38 56 54.806	1,689.9	119 42 25.7	299 41 56.2	Taylor	3.114837	1,302.7
	76 33 16.398	394.9	249 19 15.3	69 19 34.0	Ginger	2.883890	765.4
			292 41 42.7	112 42 08.8	Brewer	3.035292	1,084.7
Alms House, south chimney, lightning rod, 1899	38 56 29.003	894.3	145 26 12.2	325 26 05.4	Brewer	2.660832	458.0
	76 32 24.057	579.4	152 57 03.7	332 56 49.5	Ginger	3.078051	1,196.9
			312 53 12.6	132 53 41.6	Cedar	3.180815	1,516.4
Waggaman's windmill, 1899	38 56 47.973	1,479.2	320 02 09.2	140 02 44.7	Switch	3.326138	2,119.0
	76 31 53.774	1,295.0	346 43 13.5	166 43 23.5	Cedar	3.220490	1,661.5
			78 08 11.2	258 07 45.4	Brewer	3.004618	1,010.7
			105 21 05.2	285 19 43.8	Taylor	3.510070	3,236.5
			110 41 39.4	290 41 06.3	Ginger	3.133971	1,361.4
Pine, 1899	38 56 39.325	1,212.6	30 00 02.0	209 59 41.7	Cedar	3.192901	1,559.2
	76 31 05.562	133.9	91 34 33.7	271 33 37.6	Brewer	3.332634	2,151.0
			102 17 51.9	282 16 11.8	Larramore	3.593837	3,925.0
			104 42 33.1	284 40 41.4	Taylor	3.646105	4,427.0
			107 04 51.4	287 03 48.0	Ginger	3.405995	2,546.8
Clubhouse, south gable, flagstaff, 1899	38 56 44.759	1,380.1	317 05 10.5	137 05 47.6	Switch	3.318537	2,082.3
	76 31 56.130	1,351.7	321 26 09.9	141 27 35.4	Selby	3.720750	5,257.1
			343 53 27.4	163 53 38.8	Cedar	3.198646	1,580.0
			83 21 05.0	263 20 40.7	Brewer	2.972520	938.7
			115 29 31.7	295 29 00.0	Ginger	3.129698	1,348.0

Principal points														
Gram (1906), 1906	38	57	05.641	174.0	160	40	34.7	340	40	21.9	Start (1910)	3.168935	1,475.5
	76	28	03.640	87.7	186	07	56.1	6	08	05.7	Fort	3.540807	3,473.8
					203	01	43.3	23	02	10.9	Greenbury Point (1906)	3.431902	2,703.3
					211	53	07.9	31	53	37.6	Greenbury Point Lighthouse	3.334702	2,161.2
Bluff, 1903	38	59	11.585	357.2	293	53	33.5	113	53	58.8	Fort	3.025699	1,061.0
	76	28	28.525	686.5	0	39	40.1	180	39	39.6	Horn (1910)	3.196628	1,572.6
Brice, 1903	38	59	40.827	1,259.0	313	59	04.4	133	59	28.8	Bluff	3.113395	1,298.4
	76	29	07.340	176.6	348	38	56.4	168	39	03.2	Boathouse flagstaff	3.124493	1,332.0
Bridge, 1903	38	59	29.411	906.9	238	43	40.2	58	43	55.4	Brice	2.831364	678.2
	76	29	31.427	756.3	289	57	00.0	109	57	39.6	Bluff	3.206986	1,610.6
					318	33	57.3	138	34	19.3	Boathouse flagstaff	3.104574	1,272.3
Field, 1903	38	59	45.861	1,414.2	281	48	18.5	101	48	37.9	Brice	2.879978	758.5
	76	29	38.193	919.1	342	12	12.3	162	12	16.5	Bridge	2.726524	532.8
Knob, 1903	39	00	19.271	594.3	326	23	53.6	146	24	14.2	Brice	3.153296	1,423.3
	76	29	40.071	964.1	352	17	42.8	172	17	48.2	Bridge	3.190767	1,551.6
					357	29	20.2	177	29	21.4	Field	3.013377	1,031.3
Weems, 1903	39	00	20.061	618.6	271	15	03.4	91	15	32.5	Knob	3.046211	1,112.3
	76	30	26.286	632.5	312	20	23.5	132	20	53.8	Field	3.194719	1,565.7
Knob 2, 1906	39	00	19.311	595.5	357	26	19.4	177	26	20.6	Field	3.013908	1,032.5
	76	29	40.110	965.1	91	11	49.9	271	11	20.8	Weems	3.045826	1,111.3
Gram, 1898	38	57	05.632	173.7	207	58	59.7	28	00	07.8	Chase 2	3.744678	5,554.9
	76	28	02.702	65.1	223	05	55.7	43	07	29.6	Hackett 2	3.720842	5,258.3
					225	01	35.0	45	04	42.0	Sandy Point Lighthouse	4.004 43	10,107.5
					241	47	48.5	61	53	14.3	Ring	4.150357	14,137.0
					258	00	17.4	78	04	53.5	Broad	4.033737	10,807.8
					281	05	10.9	101	09	05.5	Craney	3.961902	9,160.1
Spring, 1903	39	00	32.411	999.5	297	54	46.3	117	55	06.3	Knob	2.937271	865.5
	76	30	11.857	285.3	330	33	42.5	150	34	03.7	Field	3.217028	1,648.3
					42	21	13.8	222	21	04.7	Weems	2.712096	515.3
Luce, 1903	39	00	36.215	1,116.8	275	36	36.5	95	37	07.7	Spring	3.078841	1,199.1
	76	31	01.453	35.0	300	29	00.0	120	29	22.1	Weems	2.992070	981.9
Cool, 1903	39	00	53.675	1,655.2	307	19	08.7	127	19	31.2	Spring	3.034041	1,081.5
	76	30	47.604	1,145.3	333	40	13.6	153	40	27.0	Weems	3.063162	1,156.5
					31	45	04.1	211	44	55.4	Luce	2.801524	633.2

[1] No check on this position.

Severn River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Salt, 1903	39 00 57.167	1,762.9	275 36 45.9	95 37 14.5	Cool	3.041485	1,100.2
	76 31 33.117	796.7	310 17 57.5	130 18 17.4	Luce	2.999522	998.9
Chase, 1903	39 01 10.209	314.8	312 22 29.3	132 22 43.9	Cool	2.878800	756.5
	76 31 10.833	260.6	347 50 59.3	167 51 05.2	Luce	3.030322	1,072.3
			53 07 24.0	233 07 10.0	Salt	2.826192	670.2
Clem, 1903	39 01 16.064	495.4	284 42 33.5	104 42 51.5	Chase	2.851831	710.9
	76 31 39.417	948.2	345 25 11.6	165 25 15.6	Salt	2.779688	602.1
Point, 1903	39 01 31.293	965.0	333 58 31.5	153 58 39.8	Chase	2.859456	723.5
	76 31 24.029	578.0	11 44 10.4	191 44 04.7	Salt	3.031340	1,074.8
			38 14 49.2	218 14 39.5	Clem	2.776681	598.0
Brewer, 1903	39 01 42.140	1,299.5	291 22 51.0	111 23 13.4	Point	2.962540	917.4
	76 31 59.540	1,432.2	328 57 01.0	148 57 13.7	Clem	2.972468	938.6
Sharp, 1903	39 03 13.865	427.6	243 51 20.3	63 51 53.4	High	3.147902	1,405.7
	76 33 39.298	945.0	283 30 14.2	103 31 06.1	Swan	3.309304	2,038.5
Cedar, 1903	39 03 46.847	1,444.6	283 20 38.7	103 21 22.6	High	3.236206	1,722.7
	76 33 56.528	1,359.0	301 55 21.9	121 56 24.7	Swan	3.450781	2,823.5
			337 50 11.8	157 50 22.6	Sharp	3.040688	1,098.2
Chase, 1906	38 59 45.157	1,392.5	317 36 23.7	137 36 48.1	Hackett (1910)	3.141399	1,384.8
	76 26 12.741	306.6	11 24 34.5	191 24 02.8	Tolly (1906)	3.787160	6,125.8
			28 29 58.6	208 28 47.1	Gram (1906)	3.747931	5,596.7
Spit, 1906	38 59 23.470	723.7	337 50 59.2	157 51 03.0	Hackett (1910)	2.582347	382.2
	76 25 39.936	961.1	39 09 23.2	219 07 52.8	Gram (1906)	3.738792	5,480.1
			53 44 07.6	233 43 04.9	Greenbury (1906)	3.474036	2,978.8
Bight, 1903	39 01 55.835	1,721.8	344 58 44.8	164 58 50.1	Point	2.894075	783.6
	76 31 32.471	781.0	7 45 29.6	187 45 25.2	Clem	3.092632	1,237.7
			57 02 04.4	237 01 47.3	Brewer	2.889899	776.1
Round, 1903	39 01 47.523	1,465.5	256 04 09.7	76 04 36.8	Bight	3.027333	1,065.0
	76 32 15.445	371.5	293 27 15.0	113 27 25.0	Brewer	2.620165	417.0
Arnold, 1903	39 02 10.367	319.7	300 51 45.8	120 52 05.4	Bight	2.941252	873.5
	76 32 03.644	87.6	353 31 47.3	173 31 49.9	Brewer	2.942506	876.0
			21 56 50.2	201 56 42.8	Round	2.880509	759.5
Bay, 1903	39 02 01.531	47.2	260 10 36.7	80 11 17.9	Arnold	3.203585	1,598.0
	76 33 09.113	219.2	288 29 48.7	108 30 22.5	Round	3.133925	1,361.2
Long, 1903	39 02 42.443	1,308.8	296 22 03.7	116 22 55.9	Arnold	3.347630	2,226.5
	76 33 26.588	639.4	314 41 58.7	134 42 43.5	Round	3.381556	2,407.4
			341 34 27.4	161 34 38.4	Bay	3.123774	1,329.8
Swan, 1903	39 02 58.421	1,801.5	359 06 06.3	179 06 07.2	Round	3.339758	2,186.5
	76 32 16.870	405.7	35 36 50.3	215 36 17.4	Bay	3.334915	2,157.8
			73 37 42.6	253 36 58.7	Long	3.242960	1,747.4
Island, 1903	39 02 24.300	749.3	223 00 56.5	43 01 10.2	Long	2.883789	765.2
	76 33 48.296	1,161.5	244 25 02.6	64 26 00.2	Swan	3.386933	2,437.4
			306 41 03.0	126 41 27.7	Bay	3.070104	1,175.2
High, 1903	39 03 33.948	1,046.9	326 41 07.3	146 41 26.1	Swan	3.117594	1,311.0
	76 32 46.813	1,125.6	10 39 30.5	190 39 16.4	Bay	3.462383	2,899.9
			31 03 29.5	211 03 04.4	Long	3.268113	1,854.0
Start (1910), 1910	38 57 50.793	1,566.3	232 30 52.9	52 31 33.8	Greenbury Point (1910)	3.295325	1,973.9
	76 28 23.920	575.9	254 47 55.3	74 48 37.8	Greenbury Point Lighthouse	3.227611	1,688.9
			321 50 10.9	141 51 01.7	Tolly (1906)	3.498529	3,151.6
Fort, 1903	38 58 57.648	1,777.7	320 35 30.5	140 35 49.0	Greenbury Point (1910)	3.046761	1,113.7
	76 27 48.223	1,160.7	334 32 56.8	154 33 16.9	Greenbury Point Lighthouse	3.253544	1,792.9
			22 37 50.1	202 37 27.7	Start (1910)	3.348988	2,233.5
Horn (1910), 1910	38 58 20.590	634.9	220 50 58.9	40 51 24.7	Fort	3.179210	1,510.8
	76 28 29.279	704.8	285 08 30.2	105 09 16.1	Greenbury Point Lighthouse	3.260572	1,822.1
			352 00 25.7	172 00 29.1	Start (1910)	2.967474	927.8
Greenbury Point (1906), 1906	38 58 26.319	811.6	54 40 51.4	234 40 11.0	Start (1910)	3.277525	1,894.6
	76 27 19.709	474.4	83 59 03.4	263 58 19.6	Horn (1910)	3.226345	1,684.0
			144 36 39.4	324 36 21.4	Fort	3.073748	1,185.1
Greenbury 2, 1898	38 58 31.146	960.4	210 08 03.4	30 08 37.8	Chase 2	3.418735	2,622.6
	76 27 09.103	219.1	242 26 09.8	62 27 10.0	Hackett 2	3.414574	2,597.6
			250 06 14.4	70 11 06.6	Ring	4.074745	11,878.0
			272 25 15.2	92 29 17.7	Broad	3.968609	9,289.9
			314 28 11.9	134 31 27.0	Price 2	4.020547	10,484.5
			336 03 02.4	156 05 46.9	Bloody 2	4.191915	15,556.6
			356 45 31.8	176 45 37.4	Tolly 2	3.576670	3,772.9
			26 04 45.7	206 04 12.0	Gram	3.467720	2,935.8
Horn, 1898	38 58 17.499	539.6	248 41 55.4	68 43 44.2	Hackett 2	3.650250	4,469.4
	76 28 26.436	636.4	269 50 29.2	89 55 20.3	Broad	4.047013	11,143.3
			306 31 37.3	126 35 41.1	Price 2	4.065563	11,629.6
			345 32 13.9	165 32 28.8	Gram	3.359577	2,288.6

Severn River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points	° ′ ″		° ′ ″	° ′ ″			
Flagstaff, Naval Academy boathouse, 1903	38 58 58.478	1,803.3	238 58 27.5	58 58 45.1	Bluff	2.894461	784.3
	76 28 56.448	1,358.6	270 53 10.9	90 53 53.8	Fort	3.215462	1,642.3
			330 45 31.4	150 45 48.5	Horn (1910)	3.126756	1,338.9
Bay Ridge Hotel, east chimney, 1910	38 56 22.163	683.4	147 07 48.1	327 07 02.0	Start (1910)	3.512453	3,254.3
	76 27 10.559	254.3	152 34 34.9	332 33 45.4	Horn (1910)	2.614317	411.4
			176 42 26.8	356 42 21.1	Greenbury (1906)	3.583754	3,834.9
Double signal, target grounds, center, 1910	38 59 03.553	109.6	22 55 27.1	202 55 12.5	Horn (1910)	3.157887	1,438.4
	76 28 06.004	144.5	114 33 38.1	294 33 24.0	Bluff	2.775211	596.0
			293 02 44.5	113 02 55.7	Fort	2.667547	465.1
Lighthouse depot, east chimney, 1910	38 59 00.885	27.3	296 56 44.7	116 56 49.8	Fort	2.342890	220.2
	76 27 56.380	1,357.0	17 03 16.8	197 02 59.5	Start (1910)	3.354258	2,260.8
			32 30 47.4	212 30 26.7	Horn (1910)	3.168338	1,473.5
Annapolis, Experiment Station, outer vent, 1910	38 59 01.516	46.7	13 15 53.5	193 15 45.7	Horn (1910)	3.112817	1,296.6
	76 28 16.920	407.2	134 58 28.0	314 57 56.3	Brice	3.234318	1,715.2
			138 01 32.7	318 01 25.4	Bluff	2.620790	417.6
Yellow house, south chimney, 1910	38 58 56.183	1,732.5	256 58 54.3	76 59 49.3	Hackett (1910)	3.335445	2,164.9
	76 27 01.587	38.2	25 20 51.0	205 20 39.6	Greenbury (1906)	3.008181	1,019.0
			62 32 03.6	242 31 08.4	Horn (1910)	3.376423	2,379.2
Bay Ridge stack, 1898	38 56 18.640	574.8	143 07 11.6	323 06 43.2	Gram	3.258083	1,811.7
	76 27 17.549	422.6	193 27 05.7	13 27 45.4	Chase 2	3.815146	6,533.5
			205 21 21.7	25 22 27.2	Hackett 2	3.767294	5,851.9
Ridout 2, 1898 [1]	39 00 25.09	773.9	341 17 29	161 17 49	Hackett 2	3.387581	2,441.1
	76 26 05.96	143.4	9 15 10	189 15 04	Chase 2	3.101115	1,262.2
Clock tower, 1910	38 59 02.016	62.2	152 45 52.1	332 45 40.7	Bridge	2.977784	950.1
	76 29 13.359	321.5	254 42 05.1	74 42 33.3	Bluff	3.018725	1,118.7
			273 45 09.6	93 46 03.1	Fort	3.312513	2,053.6
Colonial mansion, gable over columns, 1910 [1]	39 00 25.84	797.0	333 21 43	153 22 01	Brice	3.191179	1,553.0
	76 29 36.27	872.8	356 09 56	176 09 59	Bridge	3.241586	1,744.2
Gable, white, between chimneys, 1910 [1]	38 59 53.59	1,652.5	41 09 47	221 09 38	Brice	2.718277	522.7
	76 28 53.04	1,276.4	51 05 42	231 05 18	Bridge	3.074482	1,187.1

Power-house stack, 1910	38 59 06.692	206.4	180 35 12.4	0 35 12.7	Brice	3.022295	1,052.7
	76 29 07.788	187.4	260 55 26.0	80 55 50.7	Bluff	2.980898	957.0
			326 53 27.8	146 53 52.0	Horn (1910)	3.229716	1,697.1
Naval Hospital, cupola, 1906	38 59 20.083	619.3	174 30 04.6	354 30 03.9	Bridge	2.460878	289.0
	76 29 30.277	728.7	220 47 22.1	40 47 36.5	Brice	2.926825	844.9
			279 59 35.5	100 00 14.3	Bluff	3.178731	1,509.1
Naval signal, 1910 [1]	38 59 13.67	421.6	202 41 11	22 41 20	Brice	2.957898	907.6
	76 29 21.89	526.8	272 51 48	92 52 22	Bluff	3.109208	1,285.9
Annapolis, midshipmen's quarters, north cupola, 1910.	38 58 55.521	1,712.1	236 39 43.5	56 40 03.2	Bluff	2.954933	901.4
	76 28 59.815	1,439.7	267 48 49.5	87 49 34.5	Fort	3.236647	1,724.4
			325 41 16.3	145 41 35.5	Horn (1910)	3.115298	1,304.1
Annapolis, midshipmen's quarters, south cupola, 1910.	38 58 52.742	1,626.4	175 47 12.9	355 47 10.1	Brice	3.172255	1,486.8
	76 29 02.801	67.4	234 50 19.3	54 50 40.9	Bluff	3.003928	1,009.1
			320 51 20.2	140 51 41.3	Horn (1910)	3.106643	1,278.3
Signboard, center, 1910	38 59 26.097	804.8	319 12 53.5	139 13 03.6	Bluff	2.771572	591.0
	76 28 44.564	1,072.5	95 10 55.2	275 10 25.7	Bridge	3.054020	1,132.5
			129 39 05.9	309 38 51.6	Brice	2.852405	711.9
Windmill, 1910 [1]	38 59 29.90	922.1	330 23 04	150 23 12	Bluff	2.812773	649.8
	76 28 41.87	1,007.6	118 47 14	298 46 58	Brice	2.844768	699.5
Drawbridge, railroad, center north end draw, 1910. [1]	39 00 08.85	273.0	319 50 33	139 50 52	Brice	3.053347	1,130.7
	76 29 37.64	905.7	352 59 31	172 59 34	Bridge	3.088275	1,225.4
Lake, 1910	38 56 53.644	1,654.2	142 32 25.4	322 31 50.1	Start (1910)	3.346406	2,220.3
	76 27 27.831	670.2	151 06 54.2	331 06 15.5	Horn (1910)	3.486038	3,062.2
			183 54 49.7	3 54 54.8	Greenbury (1906)	3.457044	2,864.5
Blue house, north gable, 1910 [1]	38 58 00.53	16.4	210 26 01	30 26 28	Fort	3.310223	2,042.8
	76 28 31.21	751.5	245 11 59	65 12 44	Greenbury (1906)	3.277872	1,896.1
Seawall, south corner, 1910 [1]	38 58 39.92	1,231.0	279 55 14	99 56 17	Greenbury (1906)	3.386016	2,432.3
	76 28 59.24	1,426.0	309 34 15	129 34 34	Horn (1910)	2.971116	935.7
Seawall, east corner, 1910	38 58 53.691	1,655.7	214 37 55.3	34 38 05.3	Bluff	2.826479	670.6
	76 28 44.361	1,067.8	264 50 06.0	84 50 41.3	Fort	3.132481	1,356.7
			340 25 14.8	160 25 24.3	Horn (1910	3.034777	1,083.4
Meteorological pole, 1910	38 58 53.925	1,602.9	217 13 35.5	37 13 46.4	Bluff	2.835019	683.9
	76 28 45.716	1,100.4	265 15 09.1	85 15 45.3	Fort	3.142575	1,388.6
			338 56 46.1	158 56 56.5	Horn (1910)	3.041974	1,101.5
Far (chimney), 1910	38 59 29.536	910.8	23 12 16.1	203 11 14.3	Tolly (1906)	3.778789	6,008.8
	76 25 24.751	595.7	54 47 33.6	234 45 40.9	Start (1910)	3.722580	5,279.3
			54 50 38.5	234 49 26.3	Greenbury (1906)	3.529521	3,384.7

[1] No check on this position.

Severn River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
Pole, back on Greenbury Point, 1910	38 58 27.503	848.1	54 19 56.0	234 19 14.8	Start (1910)	3.288052	1,941.1
	76 27 18.419	443.4	82 52 59.2	262 52 14.6	Horn (1910)	3.235288	1,719.0
			142 20 36.5	322 20 17.7	Fort	3.069755	1,174.2
Breastworks, west, flag, 1910	38 59 03.645	112.4	327 27 06	147 27 09	Fort	2.341204	219.4
	76 27 53.127	1,278.7	3 58 48	183 58 41	Gram (1906)	3.562013	3,647.6
			18 15 49	198 15 30	Start (1910)	3.373949	2,365.6
Gymnasium, northeast corner, 1910	38 58 56.185	1,732.6	229 46 57	49 47 12	Bluff	2.866577	735.5
	76 28 51.860	1,248.2	268 18 28	88 19 08	Fort	3.185361	1,532.4
			333 39 14	153 39 28	Horn	3.088086	1,224.9
Powerhouse, northwest corner, 1910	38 59 07.137	220.1	181 40 22.9	1 40 23.7	Brice	3.016757	1,039.3
	76 29 08.601	207.0	261 54 08.7	81 54 33.9	Bluff	2.988678	974.3
			295 38 30.3	115 39 38.8	Greenbury (1906)	3.463539	2,907.6
Armory, southeast corner, 1910	38 58 46.505	1,434.1	226 21 50	46 22 11	Bluff	3.049520	1,120.8
	76 29 02.227	53.6	259 04 31	79 05 18	Fort	3.258664	1,814.1
			315 12 50	135 13 11	Horn	3.051505	1,125.9
White house, south gable, 1910 [1]	39 00 17.12	528.1	329 51 46	149 52 03	Brice	3.112006	1,294.2
	76 29 34.34	826.3	357 16 17	177 16 19	Bridge	3.168205	1,473.0
Chapel dome, Naval Academy, 1910	38 58 53.578	1,652.2	263 48 21.1	83 50 38.2	Hackett (1910)	3.722473	5,278.0
	76 29 11.965	288.0	285 05 48.8	105 06 59.9	Greenbury (1910)	3.450276	2,820.2
			324 52 41.3	144 54 02.4	Tolly (1906)	3.732080	5,396.1
Annapolis, statehouse dome, 1898	38 58 43.489	1,341.0	247 56 59.1	67 59 01.0	Chase 2	3.701675	5,031.2
	76 29 28.168	678.1	255 49 16.7	75 55 36.4	Ring	4.175249	14,970.9
			261 42 40.8	81 45 08.5	Hackett 2	3.756594	5,709.4
			273 28 54.0	93 34 23.9	Broad	4.102181	12,652.6
			293 22 50.9	113 27 39.3	Craney	4.080482	12,036.0
			305 28 53.0	125 33 35.6	Price 2	4.123945	13,302.9
			319 20 00.6	139 21 33.6	Tolly 2	3.737732	5,466.8
			326 28 35.9	146 32 47.8	Bloody 2	4.243200	17,506.6

St. Johns College, 1898	38 58 53.567	1,651.7	257 01 00.8	77 07 21.6	Ring	4.174337	14,939.5
	76 29 29.945	720.8	264 51 26.4	84 53 55.2	Hackett 2	3.757061	5,715.6
			274 52 02.7	94 57 33.7	Broad	4.104416	12,717.9
			283 01 49.9	103 07 01.0	Van	4.087379	12,228.7
			306 26 54.4	126 31 38.1	Price 2	4.130977	13,520.0
			321 02 00.3	141 03 34.4	Tolly 2	3.758376	5,732.9
Annapolis, St. Annes Church, spire, 1898	38 58 42.346	1,305.7	261 37 20.3	81 39 52.7	Hackett 2	3.770290	5,892.4
	76 29 35.633	857.8	273 16 27.4	93 22 02.1	Broad	4.108223	12,829.9
			281 18 48.3	101 24 03.0	Van	4.089537	12,289.6
			304 54 44.8	124 59 32.1	Price 2	4.128055	13,429.3
Annapolis, Catholic Church spire, 1898	38 58 30.353	935.9	242 26 48.7	62 28 43.6	Chase 2	3.695374	4,958.8
	76 29 17.078	411.1	257 08 56.5	77 11 17.2	Hackett 2	3.742035	5,521.2
			279 58 45.2	100 03 48.2	Van	4.071228	11,782.2
Annapolis, red tower circular window, spire 1898	38 58 52.391	1,615.5	263 57 48.2	84 00 03.7	Hackett 2	3.717135	5,213.6
	76 29 08.840	212.8	283 25 15.9	103 30 13.8	Van	4.069145	11,725.9
			324 59 23.5	145 00 44.4	Tolly 2	3.732242	5,398.1
Annapolis, wireless pole, 1917	38 58 59.141	1,823.7	195 40 48	15 40 50	Powerhouse stack	2.38355	241.9
	76 29 10.504	252.8	11 35 13	191 35 12	Naval Academy chapel dome	2.24332	175.1
Annapolis high power radio, tower No. 1, 1924	38 59 08.595	265.0	73 25 17	253 24 47	Fort	3.073180	1,183.5
	76 27 01.077	25.9	106 55 07	286 53 28	Field	3.596818	3,952.0
			114 04 04	294 01 55	Weems	3.733018	5,407.8
Annapolis high power radio, tower No. 2, 1924 [1]	38 59 08.32	256.6	108 03 28	288 01 55	Field	3.572492	3,736.7
	76 27 10.56	254.2	115 10 30	295 08 27	Weems	3.716309	5,203.7
Annapolis high power radio, tower No. 3, 1924	38 59 17.089	527.0	55 37 27	235 37 04	Fort	3.026124	1,062.0
	76 27 11.792	283.8	104 08 50	284 07 18	Field	3.560303	3,633.3
			112 33 02	292 31 00	Weems	3.704773	5,067.3
Annapolis high power radio, tower No. 4, 1924 [1]	38 59 16.81	518.4	103 15 45	283 14 05	Field	3.592085	3,909.2
	76 27 00.08	1.9	111 28 37	291 26 27	Weems	3.726873	5,331.8
Annapolis high power radio, tower No. 5, 1924 [1]	38 58 55.84	1,721.9	111 53 10	291 51 30	Field	3.617671	4,140.7
	76 26 58.53	1,408.8	117 28 07	297 25 57	Weems	3.750822	5,634.1
Greenbury Point Shoal Lighthouse, 1898	38 58 05.149	158.8	205 51 30.7	25 52 09.6	Chase 2	3.532938	3,411.4
	76 27 16.220	390.5	230 59 46.5	51 00 51.2	Hackett 2	3.502931	3,183.7
			352 36 27.1	172 36 37.1	Tolly 2	3.475672	2,990.0
			31 22 38.6	211 22 09.4	Gram	3.332355	2,149.6

[1] No check on this position.

Magothy River

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Revell, 1898	39 03 37.233	1,148.2	248 31 35.9	68 32 31.7	Welch	3.359107	2,286.2
	76 27 37.142	893.0	301 02 36.2	121 03 27.6	Persimmon 2	3.359810	2,289 9
Huddle, 1898	39 04 00.915	28.2	268 26 18.8	88 28 02.0	Welch	3.595279	3,939.0
	76 28 52.394	1,259.6	291 58 29.5	111 59 16.9	Revell	3.290263	1,951.0
Bluff, 1898	39 04 27.872	859.5	348 58 00.8	168 58 14.9	Persimmon 2	3.446275	2,794.3
	76 26 37.794	908.5	42 25 20.9	222 24 43.5	Revell	3.325360	2,115.2
			75 36 12.4	255 34 47.6	Huddle	3.523851	3,340.8
Dobbins flag, 1898	39 04 41.338	1,274.8	286 42 56.1	106 43 32.3	Bluff	3.159359	1,443.3
	76 27 35.299	848.5	328 43 51.7	148 44 42.0	Persimmon 2	3.567536	3,694.3
			1 17 04.6	181 17 03.4	Revell	3.296078	1,977.3
			56 04 53.6	236 04 05.0	Huddle	3.348987	2,233.5
Blackhole, 1898	39 04 43.314	1,335.7	271 12 28.3	91 13 43.5	Dobbins flag	3.457351	2,866.5
	76 29 34.526	829.9	276 22 49.1	96 24 40.5	Bluff	3.630917	4,274.8
			305 49 26.3	125 50 40.3	Revell	3.541672	3,480.7
			322 14 05.1	142 14 31.7	Huddle	3.218500	1,653.9
Ferry, 1898	39 04 19.301	595.2	227 56 35.2	47 56 56.7	Blackhole	3.043572	1,105.5
	76 30 08.675	208.5	259 32 34.3	79 34 11.0	Dobbins flag	3.573911	3,749.0
			287 10 26.3	107 11 14.4	Huddle	3.283172	1,919.4
Ham, 1898	39 04 40.782	1,257.6	265 27 56.4	85 28 22.2	Blackhole	2.995000	988.6
	76 30 15.524	373.1	301 35 34.8	121 36 27.2	Huddle	3.370370	2,346.2
			346 02 33.4	166 02 37.7	Ferry	2.834154	682.6
Cat, 1898	39 04 19.304	595.3	209 31 34.5	29 31 44.3	Ham	2.881497	761.2
	76 30 31.130	748.3	241 26 29.6	61 27 05.2	Blackhole	3.190070	1,549.1
			270 00 30.1	90 00 44.2	Ferry	2.732237	539.8
Horn, 1898	39 04 52.564	1,620.9	287 40 14.6	107 40 44.5	Ham	3.077957	1,196.6
	76 31 02.957	71.1	296 53 42.5	116 55 04.8	Huddle	3.546483	3,519.5
			308 10 01.1	128 10 35.3	Ferry	3.220035	1,659.7
			323 16 39.1	143 16 59.2	Cat	3.107055	1,279.5
Bank, 1898	39 05 01.169	36.0	318 29 03.7	138 29 18.3	Ham	2.924054	839.6
	76 30 38.675	929.6	352 00 11.5	172 00 16.3	Cat	3.115168	1,303.7
			65 33 11.7	245 32 56.4	Horn	2.806947	641.1
Hoof, 1898	39 05 05.701	175.8	279 59 30.3	99 59 51.1	Bank	2.905957	805.3
	76 31 11.672	280.6	299 39 06.6	119 39 42.0	Ham	3.191173	1,553.0
			332 39 33.6	152 39 39.1	Horn	2.659021	456.1
Tail, 1898	39 04 17.177	529.7	155 35 56.5	335 35 43.5	Horn	3.078564	1,198.3
	76 30 42.362	1,018.3	183 44 13.5	3 44 15.8	Bank	3.133376	1,359.5
			221 32 47.3	41 33 04.2	Ham	2.987964	972.7
Hickory 2, 1898	39 05 21.631	667.1	325 23 37.3	145 24 07.3	Bluff	3.304070	2,014.0
	76 27 25.378	609.9	339 06 53.1	159 07 37.2	Persimmon 2	3.672998	4,709.8
			5 01 15.7	185 01 08.4	Revell	3.500441	3,231.8
			10 51 49.6	190 51 43.4	Dobbins flag	3.102165	1,265.2
Sillery, 1898	39 05 10.391	320.4	23 54 58.4	203 54 25.1	Revell	3.497270	3,142.5
	76 26 44.156	1,061.2	53 55 06.9	233 54 34.7	Dobbins flag	3.182156	1,521.1
			109 17 13.0	289 16 47.0	Hickory 2	3.021029	1,049.6
Bay, 1898	39 05 44.531	1,373.3	354 10 54.8	174 10 57.6	Sillery	3.024595	1,058.3
	76 26 48.619	1,168.4	51 21 50.6	231 21 27.4	Hickory 2	3.053450	1,131.0
Phil, 1898	39 05 28.790	887.9	82 20 33.5	262 19 50.4	Hickory 2	3.218942	1,655.5
	76 26 17.106	411.1	122 39 42.6	302 39 22.7	Bay	2.954014	899.5
Welch 2, 1906	39 04 04.374	134.9	88 27 53.6	268 26 10.2	Huddle	3.596049	3,945.0
	76 26 08.356	200.9	221 15 44.0	41 16 09.1	Peach Hill	3.162890	1,455.1
Iron 2, 1906	39 04 46.021	1,419.1	290 12 51.7	110 14 23.1	Welch 2	3.569907	3,714.6
	76 28 33.352	801.6	18 13 02.8	198 12 50.8	Huddle	3.165040	1,464.3
			70 13 46.4	250 12 46.3	Ferry	3.386498	2,435.0
Revell 2, 1906	39 03 37.839	1,166.8	112 39 59.9	292 39 15.2	Huddle	3.266485	1,847.1
	76 27 41.497	997.7	149 20 29.9	329 19 57.2	Iron 2	3.388160	2,444.3
			249 55 05.0	69 56 03.7	Welch 2	3.377325	2,384.1
Purse, 1906	39 02 58.988	1,819.0	134 57 15.9	314 55 49.2	Iron 2	3.669544	4,672.4
	76 26 15.789	379.7	185 03 50.8	5 03 55.5	Welch 2	3.306258	2,024.2
Bluff 2, 1906	39 04 22.875	705.4	350 50 03.4	170 50 14.4	Purse	3.418352	2,620.3
	76 26 33.146	796.8	49 48 05.9	229 47 22.9	Revell 2	3.332745	2,151.5
			78 34 30.8	258 33 03.1	Huddle	3.533429	3,415.3
			103 53 07.8	283 51 52.1	Iron 2	3.473678	2,976.3
			145 17 12.2	325 16 39.3	Hickory 2	3.343275	2,204.3
Dobbins 2, 1906	39 04 43.378	1,337.6	187 51 00.7	7 51 05.0	Hickory 2	3.075834	1,190.8
	76 27 32.145	772.7	209 00 51.5	29 01 18.9	Bay	3.333756	2,156.5
			294 01 21.8	114 01 59.0	Bluff 2	3.191103	1,552.8
			330 17 55.6	150 18 43.8	Purse	3.568877	3,705.8
			6 20 53.3	186 20 47.5	Revell 2	3.308256	2,033.6
Sillery 2, 1906	39 05 10.335	318.7	54 18 27.0	234 17 56.6	Dobbins 2	3.153711	1,424.7
	76 26 44.009	1,057.7	109 18 42.6	289 18 16.5	Hickory 2	3.022640	1,053.5
			174 00 08.3	354 00 05.3	Bay	3.025145	1,060.3

Magothy River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points	° ′ ″		° ′ ″	° ′ ″			
Stony Point 2, 1898	39 03 36.361	1,121.4	324 27 38	144 28 27	Magothy	3.499713	3,160.2
	76 25 55.720	1,339.5	22 27 09	202 26 57	Persimmon 2	3.096519	1,248.9
			90 38 25	270 37 21	Revell	3.387151	2,438.7
Blake's house, chimney, 1898	39 03 30.983	955.5	122 14 48	302 14 40	Revell	2.557775	361.2
	76 27 24.436	587.5	212 34 54	32 35 24	Bluff	3.318493	2,082.1
			300 49 15	120 49 59	Persimmon 2	3.285273	1,928.7
Moccasin, 1898	39 04 52.460	1,617.7	322 22 00.2	142 23 10.9	Persimmon 2	3.645433	4,420.1
	76 28 07.792	187.3	342 22 35.0	162 22 54.3	Revell	3.386321	2,434.0
			34 00 14.7	213 59 46.6	Huddle	3.282692	1,917.3
Dobbins's house, east chimney, 1898	39 04 41.004	1,264.6	328 27 20	148 28 12	Persimmon 2	3.567381	3,693.0
	76 27 35.900	862.9	0 52 13	180 52 12	Revell	3.293735	1,966.7
			56 05 43	236 04 55	Huddle	3.348516	2,215.7
Welch's house, west chimney, 1898 [1]	39 04 05.21	160.7	4 31 05	184 31 01	Persimmon 2	3.311796	2,050.2
	76 26 08.84	212.5	67 53 31	247 52 35	Revell	3.360134	2,291.6
Iron, 1898 [1]	39 04 46.03	1,419.5	327 34 07	147 34 42	Revell	3.409257	2,513.4
	76 28 33.20	798.0	18 20 47	193 20 34	Huddle	3.166042	1,465.7

Patapsco River and Baltimore

Principal points							
Bodkin Point, 1915	39 08 04.808	148.3	127 44 24.9	307 42 24.8	Rock Point (1906)	3.761140	5,769.5
	76 25 29.677	712.7	203 34 05.0	23 35 13.6	Craighill Channel front range lighthouse	3.815123	6,533.2
			210 29 53.0	30 30 28.6	Seven Foot Knoll lighthouse	3.426487	2,669.9
Howard, 1915	39 11 39.217	1,209.4	278 39 29.8	98 41 17.5	Craighill Channel front range lighthouse	3.616908	4,139.1
	76 26 31.335	752.0	326 40 01.0	146 41 15.6	Seven Foot Knoll lighthouse	3.712645	5,159.9
			347 22 32.0	167 23 11.0	Bodkin Point	3.836948	6,775.6
			45 00 35.7	224 59 14.6	Rock Point (1906)	3.639315	4,358.3
White, 1915	39 10 25.126	774.9	240 05 59.6	60 07 44.3	Howard	3.661387	4,585.5
	76 29 16.983	407.7	311 42 10.9	131 42 34.5	Rock Point (1906)	3.078448	1,198.0
Sparrow, 1915	39 12 34.660	1,068.9	291 12 46.0	111 14 41.9	Howard	3.674112	4,721.8
	76 29 34.767	834.2	344 34 57.8	164 35 32.6	Rock Point (1906)	3.696386	4,970.3
			353 54 00.0	173 54 11.2	White	3.603935	4,017.3
Miller, 1915	39 10 25.463	785.3	208 56 35.0	28 57 33.0	Sparrow	3.658313	4,553.2
	76 31 06.607	158.6	250 58 47.0	71 01 41.0	Howard	3.844312	6,987.3
			270 13 01.1	90 14 10.3	White	3.420202	2,631.5
Armistead, 1915	39 12 35.618	1,098.4	270 28 25.6	90 29 57.3	Sparrow	3.541609	3,480.2
	76 31 59.819	1,435.2	342 20 47.6	162 21 21.3	Miller	3.624484	4,212.0
Sollers, 1915	39 13 40.286	1,242.4	318 53 55.8	138 54 42.3	Sparrow	3.429010	2,685.4
	76 30 48.347	1,159.7	4 10 21.7	184 10 10.2	Miller	3.779878	6,023.9
			40 41 36.3	220 40 51.1	Armistead	3.419946	2,629.9
Quarantine, 1915	39 13 02.437	75.2	250 16 44.3	70 18 10.2	Sollers	3.539201	3,461.0
	76 33 04.176	100.2	298 10 11.3	118 10 52.0	Armistead	3.243420	1,751.5
Rosanne, 1844	39 17 30.766	948.8	232 16 10.7	52 23 32.0	Finlay	4.323368	21,055.6
	76 43 04.567	109.4	318 11 18.6	138 20 06.7	Linstid	4.478979	30,128.6
Baltimore, Washington. Monument, head of statue, 1863.	39 17 51.076	1,575.1	334 00 44.0	154 05 40.0	Linstid	4.409908	25,698.5
	76 36 57.341	1,374.0	85 57 40.4	265 53 47.8	Rosanne	3.945579	8,822.2
Oak, 1863	39 16 18.994	585.7	119 28 45.0	299 27 01.5	Rosanne	3.653178	4,499.6
	76 40 21.112	506.0	239 48 22.5	59 50 31.5	Washington Monument, head of statue	3.751994	5,649.3
Riverview, 1915	39 15 26.706	823.6	322 47 46.6	142 48 52.3	Sollers	3.614881	4,119.8
	76 32 32.202	772.1	351 37 21.9	171 37 42.4	Armistead	3.726964	5,332.9
			9 46 55.6	189 46 35.4	Quarantine	3.654621	4,514.6
F. S. Royster, 1915	39 14 25.032	771.9	147 12 11.4	327 10 23.3	Washington Monument, head of statue	3.878541	7,560.3
	76 34 06.442	154.4	229 54 22.8	49 55 22.4	Riverview	3.470357	2,953.6
			286 10 39.7	106 12 45.0	Sollers	3.694380	4,947.4
			329 26 32.0	149 37 11.4	Quarantine	3.470214	2,952.7
Hanna, 1915	39 13 56.576	1,744.8	174 39 20.7	354 39 02.8	Washington Monument, head of statue	3.861129	7,263.2
	76 36 29.110	698.2	243 54 34.1	63 57 03.9	Riverview	3.801031	6,324.6
			255 36 12.8	75 37 43.0	F. S. Royster	3.548064	3,532.4
Bay View Asylum, 1863	39 17 23.332	719.5	287 17 44.0	107 31 26.0	Clough	4.513963	32,656.0
	76 33 06.750	161.8	345 35 09.9	165 37 40.2	Linstid	4.361230	22,973.7
			347 01 48.8	167 02 10.7	Riverview	3.567108	3,690.7
			14 35 35.6	194 34 57.9	F. S. Royster	3.754477	5,681.7
			37 17 07.3	217 14 59.3	Hanna	3.903737	8,011.9
			98 49 18.5	278 46 52.5	Washington Monument, head of statue	3.747541	5,591.7

[1] No check on this position.

Patapsco River and Baltimore—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Notre Dame tower, cross, 1894	39 21 05.127	158.1	293 57 01.0	114 13 22.3	Clough	4.609601	40,700.6
	76 37 17.503	419.0	318 41 20.0	138 43 58.9	Bay View Asylum	3.959184	9,103.0
			338 00 33.0	158 05 42.0	Linstid	4.496455	31,365.7
			355 23 03.4	175 23 16.2	Washington Monument, head of statue	3.778423	6,003.8
De Sales, cupola, 1894	39 17 06.583	203.0	229 41 11.3	49 45 00.8	Notre Dame tower, cross	4.056066	11,378.0
	76 43 19.843	475.7	261 27 11.6	81 31 13.8	Washington Monument, head of statue	3.967014	9,268.6
			300 43 02.7	120 47 22.7	Hanna	4.059148	11,459.0
Canton (U. S. E.), 1915	39 15 22.755	701.7	266 13 16.3	86 14 05.0	Riverview	3.267622	1,851.9
	76 33 49.274	1,181.4	13 01 22.6	193 01 11.7	F. S. Royster	3.261757	1,827.1
City, 1915	39 14 49.106	1,514.4	225 19 57.8	45 20 25.5	Canton (U. S. E.)	3.169146	1,476.2
	76 34 33.062	792.8	248 10 56.6	68 12 13.0	Riverview	3.494340	3,121.3
			319 18 24.4	139 18 41.2	F. S. Royster	2.990840	979.1
McHenry, 1915	39 15 47.232	1,456.6	298 12 01.7	118 12 38.8	Canton (U. S. E.)	3.203316	1,597.0
	76 34 47.976	1,150.2	338 32 51.2	158 33 17.4	F. S. Royster	3.435133	2,723.5
Furst, 1915	39 14 52.445	1,617.4	190 14 56.8	10 15 04.9	McHenry	3.234752	1,716.9
	76 35 00.719	17.2	241 22 32.8	61 23 18.0	Canton (U. S. E.)	3.290369	1,951.5
			302 59 57.0	123 00 31.3	F. S. Royster	3.190903	1,552.0
Lazaretto, 1915	39 15 48.403	1,492.7	352 53 14.0	172 53 22.4	F. S. Royster	3.413451	2,591.0
	76 34 19.819	475.1	29 36 42.7	209 36 16.8	Furst	3.297719	1,984.8
			86 56 23.6	266 56 05.8	McHenry	2.829947	676.0
Zell or McLean (H. B.), 1915	39 15 46.739	1,441.4	269 17 58.4	89 18 31.4	McHenry	3.097245	1,251.0
	76 35 40.152	962.6	330 32 36.2	150 33 01.1	Furst	3.283944	1,922.8
Arundel (H. B.), 1915	39 14 48.551	1,497.3	174 54 13.2	354 54 09.0	Zell or McLean (H. B.)	3.255643	1,801.5
	76 35 33.477	802.8	211 04 50.8	31 05 19.6	McHenry	3.324905	2,113.0
			261 18 21.3	81 18 42.0	Furst	2.900177	794.7
Elevator, 1915	39 15 39.416	1,215.6	258 35 18.2	78 35 47.8	Zell or McLean (H. B.)	3.057592	1,141.8
	76 36 26.837	643.4	320 47 32.9	140 48 06.7	Arundel (H. B.)	3.306253	2,024.2
Gravel (H. B.), 1915	39 14 36.050	1,111.8	174 31 26.5	354 31 21.5	Elevator	3.292939	1,963.1
	76 36 19.023	456.2	203 08 44.2	23 09 08.8	Zell or McLean (H. B.)	3.374902	2,370.8
			250 33 11.8	70 33 40.7	Arundel (H. B.)	3.063808	1,158.3
Han (U. S. E.), 1915	39 15 37.508	1,156.7	265 04 24.9	85 04 42.9	Elevator	2.835974	685.4
	76 36 55.322	1,326.3	307 33 53.6	127 34 45.4	Arundel (H. B.)	3.393745	2,476.0
Over (U. S. E.), 1915	39 15 19.543	602.7	195 42 21.4	15 42 25.5	Han (U. S. E.)	2.760046	575.5
	76 37 01.820	43.6	233 50 31.6	53 50 53.7	Elevator	3.016522	1,038.8
			294 16 34.2	114 17 30.1	Arundel (H. B.)	3.366222	2,323.9
Gas (U. S. E.), 1915	39 15 53.785	1,658.7	292 11 00.4	112 11 29.0	Elevator	3.069443	1,173.4
	76 37 12.157	291.4	321 11 46.2	141 11 56.8	Han (U. S. E.)	2.808950	644.1
			346 47 26.3	166 47 32.8	Over (U. S. E.)	3.035293	1,084.7
Electric (U. S. E.), 1915	39 15 54.134	1,669.5	270 52 19.1	90 52 37.7	Gas (U. S. E.)	2.847793	704.4
	76 37 41.534	995.7	294 49 44.2	114 50 13.5	Han (U. S. E.)	3.086641	1,220.8
			318 14 38.5	138 15 03.6	Over (U. S. E.)	3.155293	1,429.9
Hominy (U. S. E.) 1915	39 16 27.960	862.3	345 49 26.9	165 49 33.9	Gas (U. S. E.)	3.036224	1,087.0
	76 37 23.261	557.5	22 46 50.0	202 46 38.4	Electric (U. S. E.)	3.053609	1,131.4
Wabash (H. B.), 1915[1]	39 15 54.32	1,675.2	43 07 57	223 07 57	Electric (U. S. E.)	0.896195	7.874
	76 37 41.31	990.3					
Donaldson (H. B.), 1915	39 15 53.991	1,665.1	284 33 37	104 33 38	Gas (U. S. E.)	1.402674	25.274
	76 37 13.177	315.9	90 51 55	270 51 37	Wabash (H. B.)	2.828986	674.5
Fishing, 1915	39 13 34.470	1,063.0	171 30 24.3	351 30 18.1	F. S. Royster	3.197704	1,576.5
	76 33 56.733	1,360.8	267 42 37.5	87 44 36.6	Sollers	3.655354	4,522.2
			308 04 31.2	128 05 04.4	Quarantine	3.204572	1,601.7
Sledds (U. S. E.), 1915	39 13 06.644	204.9	189 21 53.4	9 22 03.9	F. S. Royster	3.389166	2,450.0
	76 34 23.066	553.3	216 21 20.3	36 21 37.0	Fishing	3.027561	1,065.5
			273 54 54.4	93 55 44.3	Quarantine	3.278061	1,897.0
Stone, 1915	39 13 32.521	1,002.9	292 42 26.2	112 43 24.6	Quarantine	3.380672	2,402.5
	76 34 36.562	877.0	337 54 58.0	157 55 06.5	Sledds (U. S. E.)	2.935091	861.2
Dome, 1915	39 12 28.953	892.9	172 30 58.6	352 30 51.6	Fishing	3.309157	2,037.8
	76 33 45.668	1,095.7	197 48 48.3	17 49 34.7	Riverview	3.760259	5,757.8
			242 38 22.9	62 40 15.0	Sollers	3.680241	4,789.0
Flood, 1915	39 12 56.604	1,745.6	224 17 20.4	44 17 50.4	Fishing	3.212563	1,631.4
	76 34 44.225	1,061.0	301 15 02.5	121 15 39.5	Dome	3.215742	1,643.4
Curtis, 1915	39 12 36.493	1,125.4	207 07 23.8	27 07 32.2	Flood	2.843125	696.8
	76 34 57.467	1,378.8	219 10 17.5	39 10 55.9	Fishing	3.362933	2,306.4
			277 40 49.4	97 41 34.8	Dome	3.240116	1,738.3
Creek, 1915	39 12 26.227	808.8	136 32 53.9	316 32 46.0	Curtis	2.639598	436.1
	76 34 44.966	1,078.8	181 05 14.2	1 05 14.7	Flood	2.971716	936.9

[1] No check on this position.

Patapsco River and Baltimore—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Yacht Club (H. B.), 1915 [1]	39 13 07.36	226.8	31 54 15	211 54 15	Sledds (U. S. E.)	1.41246	25.850
	76 34 22.50	539.7					
Base Monument, north (U. S. E.), 1915 [1]	39 12 34.591	1,066.8	248 19 30	68 19 32	Armistead	1.93344	85.790
	76 32 03.142	75.4					
Roland, 1915	39 20 28.329	873.7	226 10 22.2	46 10 53.5	Notre Dame tower, cross	3.214548	1,638.9
	76 38 06.882	164.8	341 02 07.9	161 02 52.0	Washington Monument, head of statue	3.709916	5,127.6
			50 20 29.2	230 17 11.0	De Sales	3.988684	9,742.8
Arlington, 1915	39 20 10.126	312.3	253 12 14.8	73 14 43.8	Notre Dame tower, cross	3.769149	5,876.9
	76 41 12.475	298.8	262 47 06.9	82 49 04.6	Roland	3.651275	4,480.0
			305 01 50.7	125 04 32.4	Washington Monument, head of statue	3.873099	7,466.2
			28 20 26.2	208 19 05.6	De Sales	3.808234	6,430.3
Marine (H. B.), 1915 [1]	39 14 48.16	1,485.4	121 47 23	301 47 22	City	1.74137	55.128
	76 34 31.11	746.0					
Smallwood (H. B.), 1915 [1]	39 10 00.60	18.4	296 24 34	116 24 36	Rock Point (1906)	1.95970	91.139
	76 28 43.13	1,035.3					
Brooks (H. B.), 1915 [1]	39 15 22.67	699.1	212 14	32 14	Canton (U S. E.)	0.5004	3.165
	76 33 49.34	1,183.1					
Tyson 2, 1896	39 14 04.040	124.6	133 17 35.0	313 17 16.9	F. S. Royster	2.975005	944.1
	76 33 37.789	906.3	211 40 00.8	31 40 42.3	Riverview	3.476456	2,995.4
			336 59 59.3	157 00 20.6	Quarantine	3.314658	2,063.8
Dundalk, 1915	39 14 58.552	1,805.7	7 49 41.6	187 49 25.6	Armistead	3.648288	4,449.3
	76 31 34.560	828.7	30 58 55.4	210 57 58.7	Quarantine	3.620796	4,176.3
			74 10 07.1	254 08 31.0	F. S. Royster	3.578184	3,786.0
Leading 2 (U. S. E.), 1896 [1]	39 13 00.80	24.8	119 21 18	299 21 16	Quarantine	2.011989	102.799
	76 33 00.44	10.6					
Key, 1915 [1]	39 15 47.28	1,458.0	88 19 20	268 19 19	McHenry	1.66089	45.803
	76 34 46.07	1,104.4					

Western Maryland, open pier, 1915	39 15 45.801	1,412.5	267 42 50.6	87 43 09.8	Zell or McLean (H. B.)	2.860757	725.7
	76 36 10.398	249.3	333 22 00.0	153 22 23.4	Arundel (H. B.)	3.295570	1,975.0
Basket (U. S. E.), 1915	39 15 30.772	949.0	238 03 35.5	58 04 05.6	Gas (U. S. E.)	3.127640	1,341.7
	76 37 59.648	1,430.1	262 19 21.6	82 20 02.3	Han (U. S. E.)	3.192058	1,556.2
Chemical (U. S. E.), 1916	39 12 53.811	1,659.4	148 28 26.7	328 28 07.8	Stone	3.146288	1,400.5
	76 34 05.033	120.7	177 00 52.8	357 00 50.3	Wagners church spire	3.254432	1,796.5
			190 05 15.4	10 05 21.3	Fishing	3.105018	1,273.6
			259 49 53.0	79 50 32.1	Quarantine	3.178289	1,507.6
Asphalt (U. S. E)., 1916	39 13 39.218	1,209.4	303 41 57.2	123 42 42.0	Quarantine	3.310476	2,044.0
	76 34 15.061	361.3	351 12 26.2	171 12 32.0	Chemical (U. S. E.)	3.151346	1,416.9
			10 49 22.1	190 49 17.0	Sledds (U. S. E.)	3.009743	1,022.7
Sugar (U. S. E.), 1916	39 13 15.667	483.1	179 02 59.1	359 02 58.9	Stone	2.715850	519.8
	76 34 36.203	868.4	209 21 30.7	29 21 47.3	Wagners church spire	3.108947	1,285.1
			214 55 30.2	34 55 43.6	Asphalt (U. S. E.)	2.947329	885.8
			280 27 46.6	100 28 44.8	Quarantine	3.351222	2,245.0
			311 26 30.4	131 26 38.7	Sledds (U. S. E.)	2.623670	420.4
House (U. S. E.), 1917	39 13 35.605	1,098.0	243 01 15.8	63 01 42.0	Wagners church spire	3.046794	1,113.8
	76 34 51.316	1,230.9	285 02 23.6	105 02 33.0	Stone	2.564017	366.5
			322 32 05.0	142 32 46.6	Dome	3.413199	2,589.4
Davidson (U. S. E.), 1916	39 12 38.640	1,191.6	85 59 57.3	265 59 32.4	Curtis	2.976974	948.4
	76 34 18.036	432.7	131 24 14.8	311 23 58.3	Flood	2.923061	837.6
Cabin (U. S. E.) 1916	39 12 50.264	1,550.0	208 44 10.5	28 44 38.1	Wagners Church spire	3.336641	2,170.9
	76 34 53.449	1,282.3	228 32 21.0	48 32 26.9	Flood	2.470247	295.3
			292 52 18.5	112 52 40.9	Davidson (U. S. E.)	2.964798	922.1
Smith (U. S. E.), 1916	39 12 30.368	936.5	212 21 43.9	32 21 47.1	Curtis	2.349530	223.6
	76 35 02.456	58.9	286 55 23.3	106 55 34.4	Creek	2.642116	438.6
St. Helena (U. S. E.), 1916	39 15 24.067	742.2	20 38 03.3	200 37 19.9	Quarantine	3.669023	4,666.8
	76 31 55.621	1,333.6	44 48 01.6	224 46 56.9	Tyson 2	3.541267	3,477.5
			59 52 57.4	239 51 34.6	F. S. Royster	3.559544	3,627.0
Iron Ore (U. S. E.) 1916	39 15 27.478	847.4	7 04 10.8	187 04 02.4	Tyson 2	3.413770	2,592.8
	76 33 24.484	587.0	27 35 18.9	207 34 52.4	F. S. Royster	3.337006	2,172.7
			76 13 59.7	256 13 44.1	Canton (U. S. E.)	2.786726	612.0
Fidelity (U. S. E.), 1916	39 15 41.833	1,290.0	353 09 37.1	173 09 44.6	F. S. Royster	3.377564	2,385.4
	76 34 18.288	438.5	10 31 21.9	190 31 13.8	Marine (H. B.)	3.226176	1,683.4
			104 08 50.5	284 08 33.0	Key	2.836823	686.8
Target (U. S. E.), 1916	39 15 40.967	1,263.3	259 29 08.2	79 29 28.8	Lazaretto Lighthouse	2.900592	795.4
	76 34 50.601	1,213.2	268 01 20.8	88 01 41.2	Fidelity (U. S. E.)	2.889389	775.2
			343 58 59.4	163 59 11.7	Marine (H. B.)	3.228937	1,694.1

[1] No check on this position.

47900°—25——7

Patapsco River and Baltimore—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Baughs (U. S. E.), 1916	39 15 33.521	1,033.7	358 30 17.5	178 38 18.9	F. S. Royster	3.324935	2,113.2
	76 34 08.741	209.6	20 58 49.1	200 58 34.9	Marine (H. B.)	3.175515	1,498.0
			102 53 28.8	282 53 02.3	Target (U. S. E.)	3.012640	1,029.5
			115 21 52.0	295 21 28.4	Key	2.995768	990.3
Ferry Bar (U. S. E.), 1916	39 15 26.027	802.6	71 19 16.5	251 19 00.9	Over (U. S. E.)	2.795397	624.3
	76 36 37.154	890.8	129 06 18.4	309 06 06.9	Han (U. S. E.)	2.749224	561.3
			210 55 20.6	30 55 27.1	Elevator	2.682412	481.3
Klein Eccentric (U. S. E.), 1916	39 15 16.499	503.8	182 18 26.6	2 18 27.3	Han (U. S. E.)	2.811851	648.4
	76 36 56.411	1,352.6	225 05 30.6	45 05 49.3	Elevator	3.000479	1,001.1
			237 31 34.2	57 31 46.4	Ferry Bar (U. S. E.)	2.738222	547.3
Lester 2 (U. S. E.), 1916	39 15 05.302	163.5	170 38 41.7	350 38 37.4	Han (U. S. E.)	3.002839	1,006.6
	76 36 48.498	1,162.9	203 03 09.6	23 03 16.8	Ferry Bar (U. S. E.)	2.841730	694.6
			206 16 18.7	26 16 32.4	Elevator	3.039975	1,173.2
Channel (U. S. E.), 1915	39 15 18.431	568.4	183 50 54.4	3 50 55.4	Han (U. S. E.)	2.770583	589.6
	76 36 56.973	1,366.0	228 08 51.0	48 09 10.0	Elevator	2.986754	970.0
			243 45 23.0	63 45 35.5	Ferry Bar (U. S. E.)	2.724111	529.8
			291 55 11.4	111 56 59.3	F. S. Royster	3.644275	4,408.3
Western Maryland Elevator Pier (U. S. E.), 1916.	39 15 35.483	1,094.2	321 41 21.1	141 41 51.3	Arundel (H. B.)	3.265848	1,844.4
	76 36 21.158	507.3	358 24 00.7	178 24 02.0	Gravel (H. B.)	3.263292	1,833.6
Baltimore & Ohio Pier 32 (U. S. E.), 1915	39 16 12.371	381.5	313 21 41.1	133 22 01.8	Lazaretto	3.031996	1,076.5
	76 34 52.464	1,257.7	352 05 55.9	172 05 58.8	McHenry	2.893383	782.7
Pennsy 6 (U. S. E.), 1915	39 16 12.174	375.4	357 07 46.0	177 07 47.0	Lazaretto	2.865068	734.0
	76 34 21.352	511.9	39 41 14.5	219 40 57.7	McHenry	2.999783	999.5
			90 28 07.7	270 27 48.0	Baltimore & Ohio Pier 32 (U. S. E.)	2.872634	745.8
Standard (U. S. E.), 1915	39 16 29.752	917.5	0 54 21.3	180 54 21.1	Pennsy 6 (U. S. E.)	2.734120	542.2
	76 34 20.995	503.3	54 36 22.0	234 36 02.1	Baltimore & Ohio Pier 32 (U. S. E.)	2.966324	925.4
Young (U. S. E.), 1915	39 16 35.718	1,101.5	285 47 23.0	105 47 40.2	Standard (U. S. E.)	2.829623	676.0
	76 34 48.131	1,153.7	318 31 03.3	138 31 20.3	Pennsy 6 (U. S. E.)	2.989374	969.1
			S 12 32.3	188 12 20.6	Baltimore & Ohio Pier 32 (U. S. E.)	2.861792	727.4
Fell Roof (U. S. E.), 1915	39 16 45.351	1,398.5	293 55 41.0	113 55 58.7	Young (U. S. E.)	2.864743	732.4
	76 35 16.060	384.9	330 55 07.1	150 55 22.1	Baltimore & Ohio Pier 32 (U. S. E.)	3.065860	1,163.8
Baltimore & Ohio Pier 9 (U. S. E.), 1915	39 16 20.653	914.4	181 55 24.6	1 55 25.0	Fell Roof (U. S. E.)	2.685190	484.4
	76 35 16.738	401.2	254 44 26.8	74 44 44.9	Young (U. S. E.)	2.851725	710.8
			312 29 03.9	132 29 19.3	Baltimore & Ohio Pier 32 (U. S. E.)	2.897111	789.1
Chesapeake (U. S. E.), 1915	39 16 34.149	1,053.1	220 25 07.6	40 25 15.4	Fell Roof (U. S. E.)	2.656827	453.8
	76 35 28.334	679.2	296 30 38.3	116 30 45.7	Baltimore & Ohio Pier 9 (U. S. E.)	2.492237	310.6
Consol (U. S. E.), 1915	39 16 34.862	1,075.1	232 32 12.5	52 32 23.7	Fell Roof (U. S. E.)	2.725759	531.8
	76 35 33.671	807.1	279 45 11.3	99 45 14.7	Chesapeake (U. S. E.)	2.113276	129.8
Terminal (U. S. E.), 1915	39 16 48.661	1,500.6	279 56 08.0	99 56 23.4	Fell Roof (U. S. E.)	2.771955	591.5
	76 35 40.368	967.5	315 58 56.4	135 59 11.4	Baltimore & Ohio Pier 9 (U. S. E.)	2.911218	815.1
			327 11 51.5	147 11 59.1	Chesapeake (U. S. E.)	2.726260	532.4
			339 20 01.1	159 20 05.3	Consol (U. S. E.)	2.657829	454.8
Merchants (U. S. E.), 1915	39 16 45.564	1,405.1	259 22 07.5	79 22 21.0	Terminal (U. S. E.)	2.714136	517.8
	76 35 01.599	38.3	296 14 32.1	116 14 49.8	Consol (U. S. E.)	2.872941	746.3
Cahill (U. S. E.), 1915	39 16 30.389	937.1	196 50 09.6	16 50 13.3	Merchants (U. S. E.)	2.689263	488.9
	76 36 07.597	179.9	229 05 51.9	49 06 09.1	Terminal (U. S. E.)	2.934822	860.6
			260 20 38.5	80 20 59.9	Consol (U. S. E.)	2.915242	822.7
Federal (U. S. E.), 1915	39 16 49.119	1,514.7	165 08 43.6	345 08 36.2	Maryland Casualty tower	3.038517	1,092.7
	76 36 30.220	724.3	279 04 33.8	99 04 51.9	Merchants (U. S. E.)	2.841804	694.7
			316 41 34.0	136 41 48.4	Cahill (U. S. E.)	2.899674	793.7
Pier 6 (U. S. E.), 1915	39 16 58.774	1,812.5	46 51 48.8	226 51 40.4	Federal (U. S. E.)	2.638944	435.5
	76 36 16.962	406.5	141 45 14.4	321 44 38.6	Maryland Casualty tower	2.984883	965.8
			317 53 11.7	137 53 21.4	Merchants (U. S. E.)	2.739673	549.1
			345 29 02.1	165 29 08.1	Cahill (U. S. E.)	2.956271	904.2
Pier 3 (U. S. E.), 1915	39 17 03.569	110.1	296 24 10.6	116 24 18.5	Pier 6 (U. S. E.)	2.521864	332.6
	76 36 29.360	704.4	2 33 18.7	182 33 18.2	Federal (U. S. E.)	2.649407	446.1
York (U. S. E.), 1915	39 16 56.679	1,747.9	220 18 33.2	40 18 37.9	Pier 3 (U. S. E.)	2.445047	278.6
	76 36 36.913	884.7	262 18 15.6	82 18 28.2	Pier 6 (U. S. E.)	2.683472	482.5
			325 28 34.9	145 28 39.1	Federal (U. S. E.)	2.451762	283.0
Supplementary points							
Randall, 1886	39 16 16.71	515.3	10 55 01	190 54 57	Moale	2.87262	745.8
	76 37 07.41	177.6	87 40 41	267 40 35	Randall's Wharf	2.35502	226.5
Harmon, 1886	39 16 06.33	195.2	212 30 00	32 30 09	Spring Gardens	2.82227	664.2
	76 37 53.09	1,272.7	293 21 23	113 21 48	Moale	3.01658	1,038.9
Ranstead, 1886	39 16 10.98	338.6	70 55 39	250 55 23	Harmon	2.64230	438.8
	76 37 35.79	858.0	172 05 46	352 05 44	Spring Gardens	2.62400	420.7
Cromwell, 1886	39 15 42.81	1,320.2	262 27 01	82 27 06	E. B	2.27897	190.1
	76 36 53.58	1,284.5	325 07 42	145 07 48	Ferry	2.56480	367.1

Patapsco River and Baltimore—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
Mitchell, 1886	39 16 19.31	595.5	214 39 50	34 39 53	Spring Gardens	2.28806	194.1
	76 37 42.81	1,026.2	326 47 33	146 47 37	Ranstead	2.48748	307.2
Kelsoe, 1886	39 15 38.89	1,199.3	264 56 12	84 56 26	Winans	2.73576	544.2
	76 36 41.68	999.3	22 43 09	202 43 07	Ferry	2.29158	195.7
Corner, 1886	39 16 32.82	1,012.1	269 47 20	89 47 30	Gas	2.55991	363.0
	76 34 27.13	650.2	17 45 56	197 45 44	Fort	3.16769	1,471.3
Boston, 1886	39 16 38.33	1,182.0	323 42 01	143 42 04	Gas	2.32062	209.2
	76 34 17.16	411.4	54 35 51	234 35 48	Corner	2.46742	293.4
Cigar, 1886	39 16 36.05	1,111.7	23 17 05	203 17 04	Gas	2.03011	107.2
	76 34 10.22	245.0	112 53 16	292 53 12	Boston	2.25632	180.4
B, 1886	39 16 39.36	1,214.4	285 35 09	105 35 12	Boston	2.07941	120.1
	76 34 21.98	526.8	31 24 36	211 24 33	Corner	2.37462	236.9
Phoenix, 1886	39 16 03.26	100.5	326 24 03	146 24 12	Oil	2.81255	649.5
	76 35 52.57	1,260.2	42 05 13	222 04 56	Winans	2.97656	947.5
Ninth Avenue stone, 1886	39 15 56.03	1,727.8	73 46 20	253 45 56	Fort	2.97968	954.3
	76 34 07.64	183.2	177 09 26	357 09 24	Cigar	3.09185	1,235.5
Canton elevator stone, 1886	39 16 09.82	302.8	52 18 24	232 18 00	Fort	3.05356	1,131.3
	76 34 08.53	204.5	177 09 25	357 09 24	Cigar	2.90848	810.0
Chesapeake, 1886	39 16 42.79	1,319.5	285 34 25	105 31 35	B	2.59317	391.9
	76 34 37.73	904.3	296 23 00	116 23 16	Gas	2.83808	688.8
Nicholson, 1886	39 16 24.24	747.5	246 12 42	66 12 47	Pratt & Callows Wharf	2.34152	219.5
	76 35 23.80	570.5	294 05 57	114 06 02	Green cupola	2.31147	204.9
Cross, 1886	39 16 39.08	1,205.1	161 23 26	341 23 23	Federal	2.50706	321.4
	76 36 25.89	620.5	177 55 44	357 55 44	Covington	2.03825	109.2
McMurray, 1886	39 16 39.87	1,229.5	82 32 45	262 32 40	Cross	2.27243	187.3
	76 36 18.14	434.8	114 06 22	294 06 17	Covington	2.31750	207.7

Alley, 1886	39 16 47.20	1,455.6	357 55 48	177 55 48	Covington	2.14997	141.2
	76 36 26.27	629.6	120 08 54	300 08 52	Federal	2.03402	108.1
Bixler, 1886	39 16 51.13	1,576.7	357 55 48	177 55 48	Covington	2.41931	262.6
	76 36 26.45	633.9	53 04 48	233 04 46	Federal	2.04724	111.5
Foot, 1886	39 16 51.30	1,582.0	34 33 23	214 33 21	Alley	2.18582	153.4
	76 36 22.64	542.6	86 50 22	266 50 20	Bixler	1.96157	91.5
Henry, 1886	39 16 50.92	1,570.3	266 50 18	86 50 21	Bixler	2.07244	118.2
	76 36 31.37	751.8	334 29 55	154 29 56	Federal	1.82596	67.0
Johnson, 1886	39 16 54.05	1,666.8	310 03 55	130 03 58	Henry	2.17655	150.2
	76 36 36.16	866.6	357 07 49	177 07 49	Mark	2.01219	102.8
William, 1886	39 16 53.82	1,659.7	267 13 50	87 13 54	Johnson	2.16684	146.8
	76 36 42.28	1,013.4	302 12 17	122 12 21	Mark	2.25388	179.4
Lee, 1886	39 16 56.33	1,737.1	284 40 18	104 40 25	Johnson	2.44297	277.3
	76 36 47.35	1,134.9	353 17 18	173 17 18	York	1.92075	83.3
Pratt, 1886	39 17 11.96	368.8	329 37 25	149 37 34	Johnson	2.80633	640.2
	76 36 49.66	1,190.2	353 26 09	173 26 10	Lee	2.68599	485.3
Cable, 1886	39 17 08.44	260.3	356 28 32	176 28 32	Patterson	2.14361	139.2
	76 36 35.01	839.1	54 13 23	234 13 13	Gail & Ax	2.68024	478.9
Warner, 1886	39 16 25.04	772.2	44 29 42	224 29 37	Mitchell	2.39358	247.5
	76 37 35.57	852.6	75 00 19	255 00 17	Spring Gardens	1.81475	65.3
Plum, 1886	39 16 31.74	978.8	19 44 34	199 44 32	Bank	2.24008	173.8
	76 37 15.56	373.0	67 35 47	247 35 46	Spring Gardens	2.76859	586.9
Gwynn, 1886	39 16 06.45	198.9	213 45 15	33 45 25	Spring Gardens	2.82557	669.2
	76 37 53.71	1,287.5	283 58 01	103 58 01	Harmon	1.18902	15.5
Leadenhall, 1886	39 16 20.59	634.9	357 05 51	177 05 51	Randall	2.07840	119.8
	76 37 07.66	183.6	59 40 38	239 40 32	Randall's Wharf	2.40676	255.1
Webster, 1886	39 16 26.32	811.6	177 18 39	357 18 39	Numsen's Wharf	2.32013	209.0
	76 36 12.35	296.1	327 35 24	147 35 28	Lawrence	2.40158	252.1
Dock, 1886	39 16 20.47	631.2	82 52 10	262 52 03	Lawrence	2.41866	262.2
	76 35 55.86	1,338.9	114 43 31	294 43 25	Zell	2.40690	255.2
Hamilton, 1886	39 16 27.01	832.9	269 33 29	89 33 39	Pratt & Callows Wharf	2.60002	398.1
	76 35 32.03	767.8	293 26 04	113 26 09	Nicholson	2.33235	215.0
Boyce, 1886	39 16 28.63	882.9	275 12 46	95 13 00	Pratt & Callows Wharf	2.71196	515.2
	76 35 36.82	882.6	293 28 44	113 28 47	Hamilton	2.09796	125.3

Patapsco River and Baltimore—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
Towson, 1886	39 15 56.64	1,746.6	17 57 38	197 57 35	Oil	2.56427	366.7
	76 35 33.66	806.9	114 15 55	294 15 37	Walker	2.88320	764.2
Harrison, 1886	39 16 49.95	1,540.3	308 21 07	128 21 14	Chesapeake	2.55122	355.8
	76 34 49.37	1,183.3	317 56 38	137 56 41	Mill, cupola	2.22238	166.9
Anchor, 1886	39 17 01.59	49.0	308 20 28	128 20 47	Chesapeake	2.97062	934.6
	76 35 08.31	199.2	310 28 53	130 29 08	Mill, cupola	2.87147	743.8
Wolf, 1886	39 17 00.96	29.6	267 07 49	87 07 59	Anchor	2.58797	387.2
	76 35 24.45	586.0	296 34 59	116 35 29	Chesapeake	3.09766	1,252.2
Mallory, 1886	39 16 54.81	1,690.2	177 07 33	357 07 33	Wolf	2.27886	190.0
	76 35 24.05	576.4	240 59 18	60 59 28	Anchor	2.63482	431.3
Fell, 1886	39 16 54.67	1,685.8	205 11 12	25 11 14	Wolf	2.33128	214.4
	76 35 28.26	677.3	267 35 48	87 35 51	Mallory	2.00377	100.7
Broadway, 1886	39 16 54.36	1,676.3	237 30 58	57 31 06	Wolf	2.57884	379.2
	76 35 37.80	905.9	267 35 43	87 35 52	Mallory	2.51809	329.7
Point, 1886	39 16 49.53	1,527.4	136 13 35	316 13 31	Fell	2.34168	219.6
	76 35 21.92	525.3	162 33 27	342 33 26	Mallory	2.23214	170.7
Philpot, 1886	39 16 47.00	1,449.4	221 11 24	41 11 25	Thames	1.72829	53.5
	76 35 48.19	1,155.0	247 23 36	67 23 51	Mallory	2.79764	626.7
Taylor, 1886	39 16 48.54	1,496.9	271 28 15	91 28 22	Thames	2.43657	273.3
	76 35 58.11	1,392.7	281 14 07	101 14 13	Philpot	2.38486	242.6
Aller, 1886	39 15 50.03	1,542.9	315 43 06	135 43 19	Ferry	2.86444	731.9
	76 37 06.14	147.2	353 56 20	173 56 29	Jephson	2.05740	114.1
Wagners Church, spire, cross, 1915	39 13 51.988	1,603.3	218 44 00.9	38 45 02.7	River View	3.573447	3,745.0
	76 34 09.934	238.3	274 15 01.8	94 17 09.3	Sollers	3.635617	4,348.6
			314 05 05.2	134 05 46.8	Quarantine	3.341660	2,196.1
Fort Carroll Light, 1915	39 12 52.312	1,613.3	65 35 19.2	245 34 49.3	Armistead	3.095332	1,245.5
	76 31 12.548	301.0	96 39 35.0	276 38 24.4	Quarantine	3.430738	2,696.1
			201 25 23.7	21 25 39.0	Sollers	3.201191	1,589.2
Lazaretto Lighthouse, 1843	39 15 45.673	1,408.5	93 49 37.9	273 49 18.9	McHenry	2.857775	720.7
	76 34 17.980	431.0	152 21 31.7	332 21 30.5	Lazaretto	1.977893	95.037
Fort McHenry Light, 1915	39 15 50.067	1,544.1	304 18 43.7	124 19 16.3	Canton	3.174342	1,494.0
	76 34 40.741	976.7	354 24 21.0	174 24 25.9	City	3.276215	1,888.9
			15 05 17.2	195 05 04.6	Furst	3.264908	1,840.4
Reinle Salmon Co., tank, 1915[1]	39 16 34.00	1,043.5	220 11 53	140 11 57	Hominy	2.384626	242.5
	76 37 29.74	712.8	341 13 52	161 14 03	Gas	3.117264	1,309.8
Electric plant chimney, 1915[1]	39 15 49.63	1,530.6	261 25 28	81 25 50	Gas	2.934520	860.0
	76 37 47.63	1,141.9	286 35 28	106 36 01	Han	3.116803	1,308.6
Fort McHenry, flagstaff, 1842	39 15 47.477	1,464.1	140 38 56.4	320 37 33.8	Washington Monument	3.692848	4,930.0
	76 34 46.888	1,124.1	219 04 26.0	39 05 29.4	Bay View	3.580706	3,808.1
Fort, most eastern salient of Fort McHenry, 1886.	39 15 47.382	1,461.2	140 27 00.0	320 25 36.7	Washington Monument	3.694425	4,947.9
	76 34 45.860	1,099.4	218 45 26.0	38 46 28.7	Bay View	3.579197	3,794.9
Mount Hope, cupola, 1915	39 20 58.982	1,819.0	268 31 24.7	88 34 43.1	Notre Dame	3.874768	7,494.9
	76 42 30.418	728.3	278 29 45.7	98 32 32.8	Roland	3.804592	6,381.0
			308 54 16.9	128 55 05.4	Arlington	3.379976	2,398.7
Pimlico flagstaff, 1915	39 21 12.114	373.6	272 37 19.9	92 39 23.7	Notre Dame	3.670126	4,678.7
	76 40 32.700	782.9	291 07 44.9	111 09 17.4	Roland	3.573297	3,743.7
			26 29 18.0	206 28 52.8	Arlington	3.329556	2,135.8
P. E. Church, spire, 1915	39 21 53.454	1,648.5	349 08 02.0	169 08 09.6	Notre Dame	3.181146	1,517.6
	76 37 29.451	705.0	18 51 12.1	198 50 48.4	Roland	3.443097	2,773.9
			59 11 41.0	239 09 19.6	Arlington	3.793696	6,218.6
Maryland Casualty tower, 1915	39 17 23.369	720.7	156 35 58.1	336 35 48.3	Washington Monument	2.968967	931.0
	76 36 41.910	1,604.4	269 59 37.6	90 01 53.8	Bay View	3.712339	5,156.3
			300 59 11.2	121 01 49.2	Riverview	3.844083	6,983.7
Sanford Brooks tank, 1915[1]	39 15 32.74	1,009.7	308 51 40	128 53 34	Sollers	3.742356	5,525.3
	76 33 47.72	1,144.1	347 18 01	167 18 29	Quarantine	3.676815	4,751.3
Disposal Plant, chimney, 1915[1]	39 07 47.25	1,457.1	184 46 13	4 46 29	Howard	3.856023	7,178.3
	76 26 56.21	1,350.4	255 23 22	75 24 17	Bodkin Point	3.331993	2,147.8
Bay Shore, cupola, 1915	39 12 13.569	418.5	48 59 06.6	228 57 01.3	Rock Point (1905)	3.799901	6,308.1
	76 25 21.462	515.0	57 43 14.6	237 42 30.4	Howard	3.297384	1,983.3
			59 24 37.8	239 22 08.9	White	3.817403	6,567.5
Livingstone stack, 1915[1]	39 13 41.86	1,291.0	281 37 24	101 37 53	Fishing	3.053522	1,131.2
	76 34 42.92	1,029.6	336 18 59	156 19 11	Sledds	3.074063	1,185.9
Baltimore & Ohio elevator, cupola, 1915	39 16 11.041	340.5	359 14 04.5	179 14 05.3	Furst	3.384529	2,424.0
	76 35 02.069	49.6	16 29 33.4	196 29 13.5	Arundel	3.423730	2,653.0
			64 22 14.4	244 21 20.7	Elevator	3.352969	2,254.1

[1] No check on this position.

Patapsco River and Baltimore—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
Brooklyn Church, spire, 1915	39 14 15.009	462.9	179 20 13.3	359 20 12.5	Elevator	3.415500	2,603.2
	76 36 25.581	613.5	201 03 23.5	21 03 52.3	Zell	3.481629	3,031.3
			240 25 36.3	60 26 30.0	Furst	3.369168	2,339.7
Yokels Park, flagstaff, 1915	39 14 35.946	1,108.6	179 32 24.4	359 32 24.0	Elevator	3.291675	1,957.4
	76 36 26.182	627.9	252 53 55.1	72 54 28.5	Arundel	3.121333	1,322.3
			268 55 59.3	88 56 03.8	Gravel	2.234757	171.7
Baltimore Yacht Club, flagstaff, 1915	39 15 40.574	1,251.3	350 32 28.4	170 32 34.9	Furst	3.177442	1,504.7
	76 35 11.031	264.4	18 32 49.8	198 32 35.6	Arundel	3.228444	1,692.2
			105 14 05.6	285 13 47.2	Zell	2.859493	723.6
Gas company stack, 1915	39 15 59.547	1,836.4	294 08 18.1	114 08 41.4	Zell	2.984857	965.7
	76 36 16.912	405.4	318 33 16.8	138 34 05.0	Furst	3.440958	2,760.3
			334 33 26.8	154 33 54.3	Arundel	3.384614	2,424.5
Our Lady of Conception Church, 1915	39 16 07.304	225.2	341 00 28.9	161 00 49.8	Furst	3.387640	2,441.4
	76 35 33.852	811.5	359 47 15.7	179 47 15.9	Arundel	3.385363	2,428.6
			55 54 13.4	235 53 39.8	Elevator	3.185827	1,534.0
Emerson Tower, 1915	39 17 15.581	480.5	323 50 40.8	143 52 05.9	Furst	3.737679	5,466.1
	76 37 15.204	364.4	331 43 04.0	151 44 08.4	Arundel	3.711672	5,148.4
			354 52 31.3	174 52 39.8	Over	3.555434	3,592.8
East Brooklyn Standpipe, 1915 [1]	39 13 28.83	889.1	162 17 05	342 16 31	Elevator	3.626111	4,227.8
	76 35 33.18	795.9	177 44 56	357 44 52	Zell	3.629032	4,256.3
Prudential Oil Co.'s stack, 1915 [1]	39 14 11.06	341.1	330 04 57	150 05 14	Fishing	3.114571	1,301.9
	76 34 23.80	570.8	359 29 24	179 29 24	Sledds (U. S. E.)	3.298110	1,986.6
Fort Howard, taller water tank, 1909	39 12 08.987	277.2	294 32 57.7	114 39 20.0	Swan Point 3	4.203546	15,978.9
	76 26 50.796	1,218.8	318 39 21.8	138 45 34.2	Love Point Light	4.332064	21,481.5
			345 15 44.2	165 16 36.2	Bodkin Point (old)	3.890628	7,773.7
Steelton, west chimney, 1896	39 12 46.61	1,437.4	349 10 25	169 10 51	Rock Point 4	3.71903	5,236.4
	76 29 20.54	492.8	84 34 26	264 32 46	Hawkins Point 4	3.57918	3,794.7
Steelton, east chimney, 1896	39 12 47.16	1,454.3	33 02 07	213 00 55	Stony Point	3.70039	5,016.4
	76 29 13.70	328.7	125 58 26	305 57 28	Sollers Point 4	3.43822	2,743.0
Large unpainted house, southwest chimney, 1866	39 13 08.88	273.8	346 12 18	166 12 34	North Point Upper Lighthouse	3.40231	2,525.3
	76 27 19.86	476.4	19 06 31	199 05 38	Rock Point 2	3.78518	6,097.9
Chair's house, east chimney, 1866	39 12 38.84	1,197.7	195 07 28	15 07 44	Fishing Point	3.36125	2,297.5
	76 34 14.12	338.8	203 19 34	23 20 34	Buchanan	3.75916	5,743.3
Hamilton, 1896	39 07 29.97	924.2	193 18 57	13 19 58	Steelton, west chimney	4.00151	10,034.9
	76 30 56.88	1,366.3	326 41 58	146 43 06	Linstid	3.67492	4,730.6
Tick Neck, 1897	39 08 26.12	805.5	206 08 25	26 10 09	Steelton, west chimney	3.95181	8,949.7
	76 32 04.89	117.4	316 39 38	136 40 21	Hamilton	3.37666	2,380.5
Johnnie, 1897	39 08 08.18	252.3	197 44 34	17 45 46	Steelton, west chimney	3.95500	9,015.8
	76 31 15.06	361.7	339 39 37	159 39 48	Hamilton	3.09922	1,256.7
Lester, 1886	39 15 05.31	163.8	157 58 08	337 57 52	Moale	3.20011	1,585.3
	76 36 48.49	1,162.7	185 52 02	5 52 04	Ferry	2.93437	859.7
Horner, 1886	39 15 50.54	1,558.5	279 18 04	99 18 30	Oil	2.99794	995.3
	76 36 19.34	463.6	358 44 32	178 44 32	Winans	2.49255	310.8
Spring Gardens, 1876	39 16 24.49	755.2	200 08 01	20 08 27	Washington Monument	3.45396	2,844.2
	76 37 38.20	915.6	249 17 30	69 18 11	Guano factory	3.22327	1,672.1
Federal, 1886	39 16 48.96	1,509.8	161 13 30	341 13 13	Washington Monument	3.30603	2,023.2
	76 36 30.17	723.1	272 06 38	92 07 45	Mill, cupola	3.40300	2,529.3
Gas, 1886	39 16 32.86	1,013.4	98 32 24	278 30 57	Federal	3.52491	3,349.0
	76 34 11.99	287.4	121 20 35	301 18 50	Washington Monument	3.66644	4,639.2
Foley, 1886	39 15 43.87	1,352.9	100 06 28	280 06 12	Fort	2.78982	616.3
	76 34 20.55	492.7	163 09 38	343 09 23	Mill, cupola	3.30092	1,999.5
Clinton, 1886	39 15 44.52	1,372.9	95 24 45	275 24 20	Fort	2.97224	938.1
	76 34 06.91	165.7	205 19 29	25 20 07	Bay View	3.52782	3,371.5
Fenhagen, 1886	39 16 59.71	1,841.3	299 57 42	119 58 01	Mill, cupola	2.92976	850.7
	76 35 15.46	370.6	347 55 25	167 55 33	Elevator B	3.18629	1,535.6
Canton Wharf, 1886	39 16 40.50	1,248.9	18 06 12	198 06 04	Elevator B	2.98072	956.6
	76 34 49.66	1,190.3	133 46 23	313 46 07	Fenhagen	2.93268	856.4
Thames, 1886	39 16 48.31	1,489.8	28 16 11	208 15 58	Lawrence	3.00509	1,011.8
	76 35 46.72	1,119.8	101 43 19	281 43 03	Block	2.80128	632.8
Walker, 1886	39 16 06.81	210.0	318 37 55	138 38 10	Oil	2.94604	883.2
	76 36 02.73	65.4	25 43 43	205 43 33	Winans	2.95528	902.2

[1] No check on this position.

Patapsco River and Baltimore—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
Pillar, 1886	39 15 51.86	1,599.3	315 40 02	135 40 11	Target	2.67220	470.1
	76 35 04.28	102.6	76 08 45	256 08 23	Oil	2.92518	841.7
McComas, 1886	39 15 59.40	1,831.8	241 09 04	61 09 15	Walker	2.67606	474.3
	76 36 20.06	480.8	293 28 30	113 28 56	Oil	3.03715	1,089.3
Clifton, cupola vane, 1863	39 19 14.986	462.2	43 27 07.8	223 26 03.0	Washington Monument	3.551936	3,564.0
	76 35 15.050	360.6	74 05 47.2	254 00 49.8	Rosanne	4.068166	11,699.5
Druid Hill Park house, 1863	39 19 24.480	754.9	273 13 43.6	93 16 00.1	Clifton cupola	3.713317	5,167.9
	76 38 50.448	1,208.4	316 44 17.8	136 45 29.5	Washington Monument	3.597119	3,954.7
Mill cupola, Chipman's chair factory, 1886	39 16 45.928	1,416.3	28 19 34.1	208 18 41.8	No. 1	3.620634	4,174.8
	76 34 44.714	1,071.7	122 18 29.0	302 17 05.0	Washington Monument	3.575209	3,760.2
Gail & Ax, tobacco manufactory, vane, 1876	39 16 59.36	1,830.5	174 44 45	354 44 41	Washington Monument	3.20454	1,601.5
	76 36 51.22	1,227.6	262 09 28	82 11 50	Bay View	3.73486	5,430.8
Guano factory cupola(a paper mill in 1886), 1876	39 16 43.66	1,346.4	164 17 30	344 17 15	Washington Monument	3.33441	2,159.8
	76 36 32.94	789.5	268 26 35	88 27 43	Mill cupola	3.41412	2,594.9
Chimney 1, Smith's Wharf, 1876	39 17 03.44	106.1	76 05 36	256 05 23	Gail & Ax	2.71844	522.9
	76 36 30.04	720.0	155 59 41	335 59 24	Washington Monument	3.20634	1,608.2
Chimney 2, Martin's planing mill, 1876	39 16 51.29	1,581.7	353 12 50	173 12 53	Woodall	3.04924	1,120.1
	76 35 58.77	1,408.5	142 43 36	322 42 59	Washington Monument	3.36500	2,317.4
Box cupola, flagstaff on chemical works, 1876	39 16 30.21	931.6	186 28 55	6 29 02	Washington Monument	3.39968	2,510.0
	76 37 09.16	289.6	237 20 48	57 21 12	Federal Hill	3.03407	1,081.6
Knabe's piano factory, cupola vane, 1876	39 16 38.69	1,193.1	194 20 49	14 21 04	Washington Monument	3.36253	2,304.3
	76 37 21.17	507.4	262 26 32	82 27 02	Guano factory	3.06676	1,166.2
Car-wheel factory, south gable, 1876	39 16 58.84	1,814.5	82 06 44	262 05 47	Federal Hill	3.33839	2,179.7
	76 35 01.09	26.1	120 03 02	300 01 48	Washington Monument	3.50761	3,218.2
Adams' sail loft, flagstaff, 1876	39 16 55.64	1,715.8	82 57 07	262 56 24	Federal Hill	3.21308	1,633.4
	76 35 23.54	564.2	127 15 58	307 14 59	Washington Monument	3.45092	2,824.4

United States bonded warehouse, flagstaff, 1876	39 16 47.45	1,463.3	85 58 48	265 58 04	Guano Factory	3.22117	1,664.1
	76 35 23.69	567.8	131 10 13	311 09 14	Washington Monument	3.47441	2,981.3
Green Cupola, Baltimore & Ohio piers 8 and 9, 1876	39 16 21.53	663.9	115 17 34	295 16 46	Federal Hill	3.29946	1,992.8
	76 35 16.00	383.5	253 50 02	73 50 41	Canton	3.19142	1,553.9
Central cupola flagstaff on Flack Bros. distillery, 1876.	39 16 14.69	453.0	46 50 59	226 50 35	Parapet	3.09029	1,231.1
	76 34 08.42	201.8	126 18 17	306 16 30	Washington Monument	3.70092	5,022.5
Elevator B, belfry, 1876	39 16 11.02	339.8	138 10 05	318 08 52	Washington Monument	3.61724	4,142.3
	76 35 02.05	49.1	231 05 27	51 06 40	Bay View	3.55042	3,551.6
Baltimore, Sacred Heart Catholic Church, spire, 1886.	39 17 04.89	150.8	248 56 59	68 57 38	Bay View	3.19952	1,583.1
	76 34 08.38	200.8	20 36 66	200 35 42	Fort	3.40716	2,553.6
Baltimore, Johns Hopkins Hospital, 1886	39 17 50.25	1,549.7	282 58 39	103 00 14	Bay View	3.56742	3,693.3
	76 35 36.91	884.4	327 45 35	147 46 08	Mill cupola	3.37017	2,345.1
Baltimore, St. James Church spire, 1886	39 18 04.54	140.0	286 19 39	106 21 34	Bay View	3.65480	4,516.5
	76 36 07.59	181.9	320 39 57	140 40 49	Mill cupola	3.49611	3,134.1
Baltimore, City Hall, cupola, 1886	39 17 27.12	836.3	271 17 33	91 19 48	Bay View	3.70795	5,104.5
	76 36 39.68	950.9	318 25 04	138 26 16	Fort	3.61398	4,111.3
Baltimore, Grace Methodist Church, 1886	39 17 52.00	1,603.6	276 48 43	96 51 58	Bay View	3.87077	7,426.3
	76 38 14.42	345.5	333 22 35	153 23 32	Ferry	3.68062	4,793.1
Baltimore, Holy Cross German Catholic Church, cross, 1886.	39 16 34.28	1,057.2	253 35 34	73 37 50	Bay View	3.72926	5,361.2
	76 36 41.33	990.7	2 32 28	182 32 26	Ferry	3.27651	1,890.2
Ober & Sons', guano factory, cupola, 1886	39 16 30.62	944.2	103 48 33	283 47 50	Gunno factory	3.22677	1,685.7
	76 35 24.64	590.6	243 44 06	63 44 31	Mill cupola	3.02827	1,067.3
Pratt & Callow's wharf, 1886	39 16 27.11	836.0	231 44 17	51 44 36	Mill cupola	2.97189	937.3
	76 35 15.42	369.7	327 09 37	147 09 45	Elevator B	2.77143	590.8
Dunmead's, city malt house, vane, 1876	39 16 52.75	1,626.7	61 04 51	241 04 38	Guano factory	2.76317	579.7
	76 36 11.77	282.1	148 44 26	328 43 57	Washington Monument	3.32312	2,104.4
Seawall, 1886	39 15 56.183	1,732.7	225 07 06.3	45 07 19.4	Pennsy 6 (U. S. E.)	2.844251	698.6
	76 34 42.003	1,006.9	294 17 41.3	114 17 55.4	Lazaretto	2.766018	583.5
			299 22 49.6	119 23 04.9	Lazaretto Lighthouse	2.820162	660.9
			27 24 15.8	207 24 12.1	McHenry	2.492030	311.1
Pennsy Con (U. S. E.), 1915	39 16 14.067	433.8	85 59 04.1	265 58 44.5	Baltimore & Ohio 32 (U. S. E.)	2.872840	746.2
	76 34 21.413	513.3	122 24 49.3	302 23 20.4	Maryland Casualty, tower	3.600800	3,988.4
			136 11 41.1	316 11 27.2	Young (U. S. E.)	2.966232	925.2
Atlantic (U. S. E.), 1915	39 16 40.181	1,239.1	3 54 23.6	183 54 22.1	Baltimore & Ohio 32 (U. S. E.)	2.934299	859.6
	76 34 50.021	1,198.9	63 07 08.9	243 06 52.0	Baltimore & Ohio 9 (U. S. E.)	2.856127	718.0
			116 25 16.5	296 24 05.7	Maryland Casualty, tower	3.476279	2,994.2

Patapsco River and Baltimore—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
Webster (U. S. E.), 1915	39 16 56.763	1,750.5	320 56 39.9	140 56 53.8	Young (U. S. E.)	2.922072	835.7
	76 35 10.099	242.0	10 46 36.4	190 46 32.2	Baltimore & Ohio 9 (U. S. E.)	2.929951	851.0
Fell (U. S. E.), 1915 [1]	39 16 45.09	1,390.5	0 50 04	180 50 04	Baltimore & Ohio 9 (U. S. E.)	2.67780	476.2
	76 35 16.45	394.3	40 10 07	220 10 00	Chesapeake (U. S. E.)	2.64510	441.7
Recreation (U. S. E.), 1915	39 16 49.238	1,518.4	31 13 35.4	211 13 00.9	Elevator	2.401032	251.8
	76 35 32.392	776.4	84 41 17.9	264 41 12.8	Terminal (U. S. E.)	2.283286	192.0
			246 31 15.1	66 31 29.2	Webster (U. S. E)	2.765315	582.5
			328 08 54.1	148 09 04.0	Baltimore & Ohio 9 (U. S. E.)	2.851884	711.0
			348 11 38.5	168 11 41.0	Chesapeake (U. S. E.)	2.677027	475.4
Chase (U. S. E.), 1915	39 16 43.801	1,350.7	210 13 19.1	30 13 21.4	Terminal (U. S. E.)	2.239194	173.5
	76 35 44.011	1,054.9	318 02 35.5	138 02 42.0	Consol (U. S. E)	2.569004	370.7
Baltimore & Ohio 9, flagstaff (U. S. E.), 1915	39 16 28.997	894.2	124 25 36.8	304 25 19.2	Chase (U. S. E.)	2.907211	807.6
	76 35 16.218	388.7	136 20 06.0	316 19 50.7	Terminal (U. S. E.)	2.923437	838.4
			180 25 43.9	0 25 44.0	Fell Roof (U. S. E.)	2.702760	504.4
			189 43 01.2	9 43 05.1	Webster (U. S. E.)	2.938897	868.8
			252 53 01.5	72 53 19.3	Young (U. S. E.)	2.847832	704.4
			268 59 07.8	88 59 42.8	Standard (U. S. E.)	3.121855	1,323.9
			291 31 17.1	111 31 51.9	Pennsy 6 (U. S. E.)	3.150382	1,413.8
Woodall (U. S. E.), 1915	39 16 26.841	827.7	145 11 41.0	325 11 09.0	Maryland Casualty, tower	3.326984	2,123.2
	76 35 51.340	1,230.6	156 56 00.2	336 55 53.7	Merchants (U. S. E.)	2.797665	627.6
			201 20 51.8	21 20 58.8	Terminal (U. S. E.)	2.858824	722.5
Gill (U. S. E.), 1915	39 16 42.953	1,324.6	33 58 08.1	213 58 01.2	Cahill (U. S. E.)	2.669481	467.2
	76 35 56.617	1,357.0	118 07 07.2	298 06 17.4	Emerson Building, tower	3.329486	2,135.4
			294 23 54.4	114 24 08.9	Consol (U. S. E.)	2.781005	604.0
Miners (U. S. E.), 1915	39 16 45.159	1,392.6	18 47 48.0	198 47 43.9	Cahill (U. S. E.)	2.682281	481.2
	76 36 01.039	24.9	99 54 23.1	279 54 04.6	Federal (U. S. E.)	2.851255	710.0
			117 49 52.7	297 49 05.7	Emerson Building, tower	3.303176	2,009.9
Hughes (U. S. E.), 1915	39 16 51.439	1,586.3	153 28 17.3	333 28 04.3	Maryland Casualty, tower	3.041607	1,100.5
	76 36 21.398	512.9	152 53 08.6	332 53 03.5	Pier 3 (U. S. E.)	2.623518	420.3
			205 10 36.0	25 10 38.8	Pier 6 (U. S. E.)	2.397814	249.9
			290 53 37.9	110 53 50.4	Merchants (U. S. E.)	2.705843	508.0
Fire (U. S. E.), 1915 [1]	39 16 51.79	1,597.1	87 57 52	267 57 44	Hughes (U. S. E.)	2.479244	301.5
	76 36 08.83	211.6	126 24 12	306 23 59	Pier 3 (U. S. E.)	2.786956	612.3
Consolidation (H. B.), 1916	39 16 28.575	881.2	121 27 39.3	301 26 36.7	Emerson Building, tower	3.443757	2,778.2
	76 35 36.323	870.7	137 04 27.9	317 03 46.4	Maryland Casualty, tower	3.363218	2,307.9
			228 05 05.6	48 05 10.7	Chesapeake (U. S. E.)	2.410506	257.3
			244 45 40.2	64 47 18.1	Bay View	3.598002	3,962.8
Baltimore & Ohio elevator, bell tower (U. S. E.), 1915. [1]	39 16 12.75	393.2	148 20 40	328 20 21	Recreation (U. S. E.)	3.121270	1,322.1
	76 35 03.44	82.5	173 17 47	353 17 43	Webster (U. S. E.)	3.135703	1,366.8
Sparrow eccentric (U. S. E.), 1916 [1]	39 12 42.98	1,325.3	316 33 16	136 33 22	Sparrow	2.548073	353.2
	76 29 44.89	1,077.0	97 48 11	277 47 16	Fort Carroll Lighthouse	3.326866	2,122.6
Bear (U. S. E.), 1916 [1]	39 13 54.87	1,692.1	342 52 06	162 52 24	Sparrow eccentric (U. S. E.)	3.365499	2,320.1
	76 30 13.38	320.8	36 20 51	216 20 14	Fort Carroll Lighthouse	3.379328	2,395.1
Sparrow Point, north chimney, 1896	39 13 01.76	54.3	213 08 04	33 16 01	Osborne's ruin	4.517438	32,918.4
	76 29 25.54	612.7	254 04 32	74 21 29	Still Pond	4.602325	40,024.4
Sparrow Point, south chimney, 1896	39 12 58.82	1,813.9	213 02 04	33 10 01	Osborne's ruin	4.518372	32,989.2
	76 29 25.15	603.3	253 56 48	74 13 45	Still Pond	4.602497	40,040.3
Bottomlys Hill, 1897	39 08 03.28	101.1	188 00 37	8 01 09	Steelton, west chimney	3.94566	8,823.9
	76 30 11.79	283.2	343 05 45	163 06 25	Linstid	3.71652	5,206.1
Canton, tank on Northern Central Elevator No. 3, 1897.	39 15 28.79	887.7	281 04 32	101 18 23	Clough	4.507064	32,141.4
	76 33 21.89	524.9	341 59 52	162 02 32	Linstid	4.294053	19,681.3
Tyson 2 (U. S. E.), 1896	39 14 31.693	977.3	288 56 06.2	108 58 10.0	Sollers Point 4	3.695916	4,965.0
	76 34 02.042	49.0	332 12 04.3	152 12 43.2	Leading 2	3.500838	3,168.4
Sollers Shore 2 (U. S. E.), 1896	39 13 54.272	1,673.6	59 47 02.4	239 45 47.8	Leading 2	3.515260	3,275.4
	76 31 02.466	59.1	105 00 56.5	284 59 02.9	Tyson 2 (U. S. E.)	3.649208	4,458.7
Cut Off Channel Front (North Point) Lighthouse, 1842.	39 11 49.37	1,522.5	36 40 50	216 39 44	Rock Point 4	3.62446	4,211.7
	76 26 54.76	1,314.0	113 34 07	293 32 33	Sparrow Point 4	3.59067	3,896.5
Cut Off Channel, Rear Lighthouse, 1896	39 12 58.18	1,794.1	339 47 56	159 49 23	Bodkin Lighthouse	3.98347	9,626.5
	76 27 46.87	1,124.4	12 57 17	192 56 44	Rock Point 4	3.75156	5,643.6
Hawkins Point (Brewerton Channel), Front Lighthouse, 1869.	39 12 28.44	877.0	218 19 59	38 20 45	Sollers Point 4	3.44559	2,789.9
	76 31 58.39	1,400.9	264 33 58	84 35 36	Sparrow Point 4	3.57171	3,730.0
Leading Point (Brewerton Channel). Rear Lighthouse, 1869.	39 12 49.34	1,521.6	157 36 04	337 35 30	Tyson 2 (U. S. E.)	3.53325	3,413.9
	76 33 07.80	187.1	245 32 24	65 33 54	Sollers Point 4	3.57170	3,729.9

[1] No check on this position.

Eastern Bay

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Kent Point, 1898	38 50 06.109	188.4	4 29 33.5	184 29 21.0	Poplar North	3.793815	6,220.4
	76 22 03.739	90.2	13 36 46.9	193 35 59.4	Sinker	3.890959	7,779.6
			34 50 51.6	214 44 51.3	Ill	4.386736	24,363.3
			62 31 52.7	242 24 27.5	Fairhaven 2	4.286472	19,340.7
Wade Point 2, 1898	38 49 34.496	1,063.7	49 49 11.0	229 46 30.4	Poplar North	3.908311	8,096.8
	76 18 07.648	184.5	70 51 54.5	250 42 01.3	Fairhaven 2	4.383780	24,198.0
			96 02 08.0	275 58 44.9	Bloody Point Bar Lighthouse	3.894532	7,843.9
			99 44 05.5	279 41 37.5	Kent Point	3.761744	5,777.6
Low, 1898	38 46 35.055	1,080.9	57 06 02.2	237 01 25.9	Poplar 2	3.645257	4,418.3
	76 20 11.258	271.8	50 59 19.0	230 52 08.4	Ill	4.330744	21,416.3
			95 29 06.1	275 27 43.0	Poplar North	3.507460	3,217.1
			157 22 19.7	337 21 09.2	Kent Point	3.848273	7,051.4
			208 19 00.9	28 20 18.4	Wade Point 2	3.798375	6,286.0
Long 2, 1898	38 51 20.490	631.8	316 32 02.4	136 33 22.9	Wade Point 2	3.653460	4,502.6
	76 20 16.053	388.1	19 58 11.3	199 56 51.2	Poplar North	3.956058	9,037.7
			24 12 42.1	204 10 47.0	Sinker	4.033585	10,804.0
			48 33 30.7	223 32 23.2	Kent Point	3.539676	3,464.8
Boz, 1898	38 51 42.592	1,313.3	44 37 13.2	224 35 31.9	Wade Point 2	3.744148	5,548.1
	76 15 26.094	629.2	47 43 21.5	227 38 59.6	Poplar North	4.134533	13,631.2
			72 47 51.4	252 43 42.1	Kent Point	4.001737	10,040.1
			84 27 27.4	264 21 25.6	Long 2	3.846612	7,024.4
Legg, 1899	38 52 05.376	165.8	276 17 06.8	96 19 52.2	Boz	3.805783	6,394.2
	76 19 49.705	1,198.2	332 06 47.2	152 07 51.2	Wade Point 2	3.721267	5,263.4
Dixon, 1899	38 51 20.061	618.6	47 13 59.2	227 12 27.7	Wade Point 2	3.680594	4,792.9
	76 15 41.786	1,007.6	90 08 20.4	270 05 28.4	Long 2	3.820415	6,613.3
			103 10 46.5	283 08 10.9	Legg	3.788066	6,138.6
Bodkin, 1899	38 53 43.704	1,347.6	331 35 28.0	151 36 20.6	Boz	3.627948	4,245.7
	76 16 49.873	1,201.9	339 39 44.8	159 40 27.6	Dixon	3.674288	4,723.8
			13 43 12.3	193 42 23.5	Wade Point 2	3.898184	7,910.1
			55 02 32.8	235 00 39.9	Legg	3.723440	5,289.8

Bennett, 1899	38 51 07.037	217.0	94 47 47.8	274 45 42.8	Dixon	3.683038	4,820.5
	76 12 22.570	544.3	126 53 00.9	306 50 13.2	Bodkin	3.905990	8,053.6
Parsons, 1899	38 54 26.292	810.6	328 46 24.0	148 48 01.0	Bennett	3.856380	7,184.2
	76 14 57.026	1,374.1	10 38 38.2	190 38 10.1	Dixon	3.766646	5,843.1
			64 13 56.3	244 12 45.4	Bodkin	3.479971	3,019.8
Greenwood, 1899	38 53 24.118	743.7	0 14 51.7	180 11 51.2	Bennett	3.626043	4,227.1
	76 12 21.812	525.7	117 09 08.8	297 07 31.3	Parsons	3.623565	4,203.1
Brian, 1899	38 55 52.305	1,612.9	352 28 56.0	172 29 11.7	Greenwood	3.663625	4,609.2
	76 12 46.834	1,128.0	356 11 41.0	176 11 56.1	Bennett	3.945276	8,816.1
			49 47 28.3	229 46 06.5	Parsons	3.613588	4,107.6
Hood, 1899	38 56 37.446	1,154.7	304 43 18.1	124 44 10.5	Brian	3.387997	2,443.4
	76 14 10.212	245.9	336 20 03.5	156 21 11.7	Greenwood	3.813482	6,508.5
			15 35 02.6	195 34 33.2	Parsons	3.623111	4,198.7
Sharp, 1899	38 56 17.818	549.4	243 45 35.6	63 46 07.6	Hood	3.136483	1,369.3
	76 15 01.209	29.1	283 39 01.1	103 40 25.5	Brian	3.522541	3,330.7
			324 20 49.0	144 22 29.1	Greenwood	3.818935	6,590.8
			358 19 16.1	178 19 18.7	Parsons	3.536630	3,440.6
Corn, 1899	38 54 52.676	1,624.4	280 03 42.7	100 05 42.0	Parsons	3.667404	4,649.5
	76 18 07.024	169.2	318 50 16.8	138 51 05.2	Bodkin	3.450986	2,824.8
Coxes Creek, 1899	38 54 41.285	1,273.1	255 53 35.8	75 54 12.3	Corn	3.158876	1,441.7
	76 19 05.060	121.9	298 34 56.2	118 36 21.1	Bodkin	3.569372	3,710.0
Ted, 1899	38 55 26.981	832.0	322 16 03.2	142 17 07.4	Bodkin	3.604910	4,026.3
	76 18 32.119	773.8	330 14 59.4	150 15 15.2	Corn	3.085799	1,218.4
			29 23 24.4	209 23 03.7	Coxes Creek	3.208768	1,617.2
Red, 1899 [1]	38 55 21.45	601.5	332 45 55	152 46 35	Bodkin	3.530183	3,389.9
	76 17 54.25	1,306.8	54 01 31	234 00 46	Coxes Creek	3.323916	2,108.2
Hambleton, 1899	38 49 13.957	430.4	142 04 24.8	322 03 06.0	Dixon	3.692888	4,930.5
	76 13 36.103	871.0	206 57 09.2	26 57 55.3	Bennett	3.592406	3,912.1
Woodland, 1899	38 50 07.180	221.4	58 17 02.8	238 15 53.8	Hambleton	3.494300	3,121.0
	76 11 46.049	1,110.7	111 35 25.2	291 32 57.4	Dixon	3.786259	6,113.1
			154 29 37.3	334 29 14.4	Bennett	3.310718	2,045.1
Oliver, 1899	38 48 43.763	1,349.5	111 46 48.7	291 45 48.1	Hambleton	3.399717	2,510.3
	76 11 59.476	1,435.0	187 10 32.0	7 10 40.4	Woodland	3.413733	2,592.6
Deepwater Point, 1899	38 48 17.533	540.6	141 47 52.9	321 47 17.3	Hambleton	3.345224	2,214.2
	76 12 39.340	949.2	184 25 26.6	4 25 37.1	Bennett	3.719537	5,242.5
			200 48 49.8	20 49 23.2	Woodland	3.558381	3,617.3
			229 56 09.2	49 56 34.2	Oliver	3.099241	1,256.7

[1] No check on this position.

Eastern Bay—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Second Point, 1899	38 48 10.535	324.8	103 23 49.7	283 23 26.2	Deepwater Point	2.969193	931.5
	76 12 01.786	43.1	130 41 03.6	310 40 04.5	Hambleton	3.477197	3,000.5
			183 06 46.8	3 06 48.3	Oliver	3.011200	1,026.1
Fairview, 1899	38 48 04.294	132.4	113 30 14.0	293 29 49.6	Deepwater Point	3.010209	1,023.8
	76 12 00.432	10.4	170 21 54.9	350 21 54.0	Second Point	2.290510	195.2
Windmill Point, 1899	38 47 42.553	1,312.2	192 22 22.3	12 22 28.4	Deepwater Point	3.043088	1,104.3
	76 12 49.147	1,186.0	232 56 36.5	52 57 06.1	Second Point	3.155955	1,432.0
			240 18 01.7	60 18 32.2	Fairview	3.131395	1,353.3
Marengo, 1899	38 47 04.439	136.9	116 48 57.1	296 47 56.7	Windwill Point	3.415974	2,606.0
	76 11 12.774	308.4	148 04 28.9	328 03 59.0	Fairview	3.337406	2,174.7
Spencer, 1899	38 46 33.503	1,033.1	148 51 27.3	328 50 53.9	Windmill Point	3.395829	2,487.9
	76 11 55.832	1,347.7	177 43 45.3	357 43 42.4	Fairview	3.447444	2,801.8
			227 26 55.3	47 27 22.3	Marengo	3.149447	1,410.7
Gibson, 1899	38 46 31.597	974.3	92 04 29.7	272 03 47.5	Spencer	3.211689	1,628.1
	76 10 48.428	1,169.1	149 52 37.2	329 52 22.0	Marengo	3.068511	1,170.9
Miles River, 1899	38 46 03.616	111.5	132 03 34.4	312 03 07.9	Spencer	3.138558	1,375.8
	76 11 13.516	326.3	180 32 49.2	0 32 49.7	Marengo	3.273146	1,875.6
			215 03 50.0	35 04 05.7	Gibson	3.022902	1,054.1
Royal, 1899	38 45 41.355	1,275.1	110 09 51.6	290 09 03.1	Miles River	3.299291	1,992.0
	76 09 56.060	1,353.5	140 47 21.5	320 46 48.7	Gibson	3.300950	1,999.6
Oak, 1899	38 45 14.761	455.1	145 39 19.1	325 38 52.4	Miles River	3.261185	1,824.7
	76 10 30.875	745.5	169 51 38.2	349 51 27.2	Gibson	3.381459	2,406.9
			225 42 23.3	45 42 45.1	Royal	3.059793	1,174.3
Needle, 1909	38 53 45.569	1,405.2	245 32 49.4	65 34 01.4	Parsons	3.482124	3,034.8
	76 16 51.679	1,245.4	339 24 47.1	159 25 31.0	Dixon	3.630591	4,792.8
Straight, 1909	38 51 22.725	700.7	228 14 55.1	48 17 03.7	Needle	3.820667	6,617.1
	76 20 16.529	398.5	270 41 11.6	90 44 04.0	Dixon	3.821198	6,625.2
Kemp, 1909	38 49 34.194	1,054.4	136 26 32.0	316 25 09.2	Straight	3.664553	4,619.1
	76 18 04.524	109.1	192 45 36.5	12 46 22.2	Needle	3.900255	7,947.9
			226 30 25.5	46 31 55.0	Dixon	3.676166	4,744.2
Tenk, 1909	38 50 05.118	157.8	86 33 21.5	266 32 28.3	Bloody Point Bar Lighthouse	3.311713	2,049.8
	76 22 06.221	150.0	227 51 21.4	47 52 30.2	Straight	3.552323	3,567.2
			279 16 06.2	99 18 37.7	Kemp	3.771397	5,907.4
Haddaway, 1909	38 46 33.365	1,028.8	142 31 00.9	322 28 53.2	Bloody Point Bar Lighthouse	3.907139	8,074.9
	76 20 07.326	176.7	156 17 29.8	336 16 15.3	Tenk	3.853214	7,132.0
			178 34 31.6	358 34 25.9	Straight	3.950632	8,925.5
			207 58 37.9	27 59 54.9	Kemp	3.800342	6,314.5
Valliant, 1909	38 46 14.019	432.3	175 01 18.9	355 01 03.0	Bloody Point Bar Lighthouse	3.846912	7,029.3
	76 23 05.763	139.1	191 23 37.9	11 24 15.2	Tenk	3.861508	7,269.6
			262 05 58.6	82 07 50.3	Haddaway	3.638349	4,348.6
Benn, 1909	38 51 10.060	310.2	93 40 06.4	273 38 00.7	Dixon	3.685156	4,843.5
	76 12 21.327	514.3	126 22 10.4	306 19 20.8	Needle	3.908015	8,091.2
			148 12 20.4	328 10 42.7	Parsons	3.852507	7,120.4
Pearson, 1909	38 51 29.047	895.7	181 40 13.9	1 40 18.1	Parsons	3.737823	5,467.9
	76 15 03.642	87.8	278 29 38.5	98 31 20.3	Benn	3.597405	3,957.4
Green, 1909	38 53 34.374	1,060.0	0 45 19.5	180 45 17.9	Benn	3.648411	4,450.5
	76 12 18.893	455.3	45 47 40.9	225 45 57.5	Pearson	3.743620	5,541.4
			112 48 10.3	292 46 31.0	Parsons	3.616290	4,133.2
Brian, Reference Station	38 55 53.083	1,636.9	351 04 54.2	171 05 11.7	Green	3.636449	4,329.6
	76 12 46.744	1,125.9	49 33 23.8	229 32 02.0	Parsons	3.615398	4,124.8
Alley, 1909	38 55 31.885	983.2	258 29 57.8	78 31 21.7	Brian Reference Station	3.516124	3,281.9
	76 15 00.261	6.3	312 58 11.3	132 59 52.6	Green	3.725490	5,314.8
			357 47 34.4	177 47 36.4	Parsons	3.306243	2,024.2
Herr, 1909	38 50 07.018	216.4	128 27 41.5	308 26 18.6	Pearson	3.609354	4,067.7
	76 12 51.541	1,243.1	200 32 41.2	20 33 00.1	Benn	3.317234	2,076.0
Seth, 1909	38 49 47.815	1,474.4	178 06 21.1	358 06 18.4	Pearson	3.494617	3,123.3
	76 14 59.360	1,431.8	236 20 44.3	56 22 23.4	Benn	3.600675	4,578.0
			259 06 58.5	79 08 18.7	Herr	3.496843	3,139.4
Sara, 1909	38 49 13.691	422.2	153 28 27.3	333 27 33.1	Pearson	3.668874	4,665.2
	76 13 37.231	898.2	207 01 22.7	27 02 10.3	Benn	3.605133	4,028.4
Wood, 1909	38 50 19.350	596.7	52 14 47.2	232 13 39.3	Sara	3.519325	3,306.2
	76 11 48.874	1,178.7	114 36 18.8	294 34 16.6	Pearson	3.713083	5,165.2
			153 24 54.0	333 24 33.6	Benn	3.242695	1,748.6
Mouth, 1909	38 52 19.201	592.1	239 10 20.6	59 12 16.9	Needle	3.715966	5,199.6
	76 19 56.955	1,373.0	286 29 20.8	106 32 00.9	Dixon	3.807307	6,416.6

42300°—25†——8

Eastern Bay—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Turkey, 1909	38 54 07.021	216.5	292 09 15.2	112 09 57.5	Needle	3.243959	1,753.7
	76 17 59.078	1,423.6	327 15 19.3	147 16 45.5	Dixon	3.786774	6,120.3
			40 31 27.6	220 30 13.6	Mouth	3.640808	4,373.3
Matta, 1909	38 54 19.909	613.9	277 01 28.0	97 02 51.9	Turkey	3.511123	3,244.3
	76 20 12.705	306.1	354 10 32.3	174 10 42.2	Mouth	3.573045	3,741.5
Batts, 1909	38 54 40.418	1,246.4	301 36 04.8	121 36 43.4	Turkey	3.293357	1,965.0
	76 19 08.532	205.6	15 00 24.0	194 59 53.6	Mouth	3.654010	4,508.3
			67 45 38.1	247 44 57.8	Matta	3.222863	1,670.6
Some, 1909	38 55 04.827	148.9	310 58 34.0	130 58 56.6	Batts	3.059848	1,147.8
	76 19 44.497	1,072.0	26 08 18.0	206 08 00.3	Matta	3.188325	1,542.9
Then, 1909	38 54 56.615	1,745.8	248 50 25.9	68 50 43.0	Some	2.846095	701.6
	76 20 11.656	280.8	288 10 29.0	108 11 06.7	Batts	3.204327	1,600.8
			1 16 43.8	181 16 43.2	Matta	3.053905	1,132.2
Supplementary points							
Kemp tower, 1909	38 49 40.916	1,262.6	29 26 04.1	209 21 39.4	Haddaway	3.822218	6,640.8
	76 17 52.133	1,237.6	96 57 23.2	276 54 43.9	Tenk	3.790559	6,173.9
			132 02 21.9	312 00 51.4	Straight	3.670985	4,688.0
Rich Neck water tank, 1909	38 50 42.043	1,296.4	102 04 21.9	282 01 49.0	Straight	3.778749	6,008.3
	76 16 12.850	210.1	119 01 36.4	298 59 15.8	Mouth	3.790866	6,178.3
			170 36 49.9	350 36 25.5	Needle	3.758817	5,736.1
			261 11 03.6	81 13 28.7	Benn	3.752031	5,649.8
Parsons Island water tank, 1909	38 54 32.855	1,613.1	21 51 52.3	201 51 50.1	Parsons	2.338577	218.1
	76 14 53.655	1,292.8	92 06 33.9	272 04 49.7	Cox	3.601887	3,998.4
			135 02 05.4	315 01 33.5	Norman	3.237562	1,728.1
New barn, cupola, 1909	38 56 17.900	552.0	259 27 40.5	79 28 32.8	Bonnet	3.309236	2,038.1
	76 15 30.142	725.9	280 59 22.0	101 01 01.7	Brian Reference Station	3.603053	4,009.2
			333 06 07.6	153 06 25.4	Alley	3.201679	1,591.0
St. Michaels water tank, 1909	38 47 12.678	390.9	213 07 42.5	33 08 16.4	Deewat	3.378184	2,390.5
	76 13 33.857	817.1	229 19 12.9	49 19 40.3	Millwind	3.144569	1,395.0
			273 57 07.7	93 58 36.7	Margo	3.536396	3,438.7
St. Michaels, P. E. Church, spire	38 47 04.704	145.1	205 48 27.6	25 48 57.1	Deewat	3.401144	2,518.5
	76 13 26.786	646.5	217 31 35.7	37 31 59.7	Millwind	3.163335	1,456.6
			228 35 20.9	48 36 15.0	Fairview	3.443796	2,778.4
			259 50 42.0	89 52 06.6	Margo	3.513200	3,259.9
			270 07 59.8	90 09 23.8	Marengo	3.509815	3,234.6
			293 39 25.9	113 40 22.9	Spencer	3.379666	2,397.0
Barn cupola, 1899	38 56 50.998	1,572.6	282 13 36.0	102 14 26.3	Hood	3.394923	1,972.1
	76 15 30.242	728.2	294 40 57.2	114 42 39.8	Brian	3.636664	4,331.8
			325 39 00.9	145 39 19.2	Sharp	3.093163	1,239.3

Cox, Thompsons, and Warehouse Creeks

Principal points							
Dell, 1909	38 55 28.087	866.1	342 38 19.4	162 38 39.8	Turkey	3.418148	2,619.1
	76 18 31.511	759.1	31 14 59.8	211 14 36.6	Batts	3.235369	1,719.4
Top, 1909	38 55 16.758	516.8	247 03 35.7	67 03 57.2	Dell	2.952511	896.4
	76 19 05.781	139.3	323 13 20.5	143 14 02.4	Turkey	3.428881	2,684.6
			3 23 06.3	183 23 04.6	Batts	3.050212	1,122.6
Ware, 1909	38 56 01.642	50.6	326 52 12.6	146 52 30.2	Dell	3.091861	1,235.6
	76 18 59.543	1,434.2	6 11 44.7	186 11 40.8	Top	3.143703	1,392.2
Tom, 1909	38 55 53.786	1,658.6	354 22 17.1	174 22 19.1	Dell	2.901074	796.3
	76 18 34.753	837.1	33 12 36.1	213 12 18.6	Top	3.135029	1,364.7
			112 05 09.9	292 04 54.3	Ware	2.809144	644.4
Greek, 1909	38 56 25.254	778.8	18 32 05.4	198 31 57.9	Tom	3.010074	1,023.5
	76 18 21.245	511.7	51 42 58.9	231 42 34.8	Ware	3.070091	1,175.1
Tuxon, 1909	38 56 41.157	1,269.2	308 09 16.8	128 09 33.1	Greek	2.899689	793.8
	76 18 47.162	1,135.8	348 26 09.3	168 26 17.1	Tom	3.173491	1,491.0
			13 45 06.2	193 44 58.4	Ware	3.098461	1,254.5
Ville, 1909	38 56 43.838	1,351.8	356 02 36.8	176 02 37.8	Greek	2.759235	574.4
	76 18 22.891	551.3	34 09 22.6	214 08 59.5	Ware	3.196547	1,572.3
			81 57 09.8	261 56 54.5	Tuxon	2.771081	590.3
Steve, 1909	38 56 58.184	1,794.2	305 45 27.3	125 45 43.3	Ville	2.879101	757.0
	76 18 48.400	1,165.5	356 44 58.3	176 44 59.1	Tuxon	2.720898	525.9
Timber, 1909	38 56 59.841	1,845.3	350 28 00.3	170 28 02.4	Ville	2.699312	500.4
	76 18 26.332	634.1	41 02 43.6	221 02 30.5	Tuxon	2.883038	763.9
			84 30 35.0	264 30 21.1	Steve	2.727423	533.9
Landing, 1909	38 57 17.162	529.2	321 26 30.0	141 26 41.1	Timber	2.834441	683.0
	76 18 44.012	1,059.8	10 14 04.2	190 14 01.4	Steve	2.774284	594.7

Cox, Thompsons, and Warehouse Creeks—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Thompson, 1909	38 57 11.596	357.6	247 45 23.5	67 45 34.5	Landing	2.656546	453.5
	76 19 01.443	34.7	293 12 11.4	113 12 33.5	Timber	2.963740	919.9
			322 47 04.2	142 47 12.4	Steve	2.715434	519.3
Hope, 1909	38 57 31.681	976.9	326 40 55.8	146 41 03.5	Landing	2.728969	535.8
	76 18 56.234	1,353.9	11 26 58.9	191 26 65.6	Thompson	2.800665	631.9
Knock, 1909	38 57 29.249	902.0	356 53 51.8	176 53 52.3	Landing	2.572026	373.3
	76 18 44.851	1,079.9	36 16 35.6	216 16 25.1	Thompson	2.829460	675.2
			105 18 05.6	285 17 58.4	Hope	2.453531	284.1
Coffee, 1909	38 56 28.073	865.7	244 11 18.9	64 11 40.7	Tuxon	2.966978	926.8
	76 19 21.807	525.2	326 39 25.0	146 39 39.0	Ware	2.989273	975.6
Liver, 1909	38 56 38.913	1,200.0	263 37 10.7	83 37 26.9	Tuxon	2.794502	623.0
	76 19 12.873	310.0	344 23 33.5	164 23 41.9	Ware	3.076750	1,193.3
			32 46 08.7	212 46 03.1	Coffee	2.599378	397.5
Here, 1909	38 56 40.065	1,235.5	272 49 25.1	92 49 43.9	Liver	2.857715	720.6
	76 19 42.760	1,029.7	306 14 04.0	126 14 17.2	Coffee	2.796303	625.6
Samuel, 1909	38 56 50.245	1,549.4	303 28 29.7	123 28 43.5	Liver	2.801739	633.5
	76 19 34.815	838.4	335 22 59.9	155 23 08.1	Coffee	2.876248	752.1
			31 21 56.7	211 21 51.7	Here	2.565401	367.6

Crab Alley Bay

Principal points							
Norman, 1909	38 55 12.502	385.5	321 19 58.0	141 20 27.7	Parsons	3.261243	1,824.9
	76 15 44.347	1,068.3	31 11 15.7	211 10 33.4	Needle	3.496014	3,133.4
Cox, 1909	38 54 37.594	1,159.3	248 46 58.4	68 48 10.7	Norman	3.473585	2,975.7
	76 17 39.495	951.6	275 04 25.7	95 06 07.7	Parsons	3.594400	3,930.1
			324 18 36.3	144 19 06.3	Needle	3.295602	1,975.2
Tull, 1909	38 56 03.620	111.6	305 50 16.5	125 51 13.4	Norman	3.430040	2,691.8
	76 17 14.929	359.6	12 34 40.5	192 34 25.1	Cox	3.434242	2,718.0
Over, 1909	38 56 05.282	162.9	338 31 58.0	158 32 14.7	Norman	3.242756	1,748.9
	76 16 10.915	262.9	38 17 11.9	218 16 16.3	Cox	3.537132	3,444.5
			88 06 07.6	268 05 27.4	Tull	3.188275	1,542.7

Prospect Bay

Principal points							
Bonnet, 1909	38 56 29.980	924.5	300 29 36.6	120 30 27.0	Brian Reference Station	3.350583	2,241.7
	76 14 06.940	167.1	35 38 28.2	215 37 54.7	Alley	3.343262	2,204.3
Dull, 1909	38 56 18.732	577.6	255 34 47.6	75 35 22.8	Bonnet	3.144020	1,393.2
	76 15 02.968	71.5	283 32 29.6	103 33 55.2	Brian Reference Station	3.528276	3,375.0
			357 24 56.9	177 24 58.6	Alley	3.160197	1,446.1
Kirwan, 1909	38 57 16.751	516.6	314 59 09.7	134 59 47.4	Bonnet	3.309629	2,040.0
	76 15 06.851	165.0	357 00 27.9	177 00 30.4	Dull	3.253230	1,791.6
Marshy, 1909	38 57 22.365	689.7	348 30 11.4	168 30 20.0	Bonnet	3.217074	1,648.4
	76 14 20.583	495.6	27 29 09.4	207 28 42.8	Dull	3.344747	2,211.8
			81 10 19.7	261 09 50.6	Kirwan	3.052094	1,127.4
Railroad, 1909	38 58 01.154	35.6	211 57 38.0	31 58 01.4	Muddy	3.228220	1,691.3
	76 14 22.868	550.5	357 21 56.0	177 21 57.4	Marshy	3.078231	1,197.4
			37 43 20.5	217 42 52.8	Kirwan	3.238281	1,730.9
Bridge, 1909	38 58 13.370	412.3	237 54 10.1	57 54 54.2	Muddy	3.299236	1,991.8
	76 14 55.773	1,342.6	295 25 49.5	115 26 10.2	Railroad	2.943090	877.2
			331 41 10.2	151 41 32.3	Marshy	3.252007	1,786.5
			8 41 08.8	188 41 01.8	Kirwan	3.247035	1,766.2
Thin, 1909	38 58 40.090	1,513.8	271 55 01.9	91 55 35.7	Muddy	3.111343	1,292.2
	76 14 39.330	946.7	344 59 28.3	164 59 38.7	Railroad	3.184806	1,530.4
			19 46 02.1	199 45 51.8	Bridge	3.068353	1,170.5

Wye River

Principal points							
Frank, 1909	38 50 33.894	1,045.2	59 32 07.4	239 31 30.8	Herr	3.213345	1,634.3
	76 11 53.135	1,281.5	148 38 05.8	328 37 48.1	Benn	3.115977	1,306.1
James, 1909	38 50 46.697	1,439.9	3 17 45.0	183 17 44.4	Frank	2.597061	395.4
	76 11 52.192	1,258.7	49 28 52.2	229 28 15.0	Herr	3.274853	1,883.0
			135 43 18.9	315 43 00.6	Benn	3.002728	1,006.3

Wye River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Hough, 1909	38 51 20.185	622.4	348 33 26.4	168 33 31.8	James	3.022673	1,053.6
	76 12 00.859	20.7	57 41 01.7	237 40 48.8	Benn	2.766409	584.0
Law, 1909	38 51 04.918	151.7	36 40 59.0	216 40 48.1	James	2.845483	700.6
	76 11 34.836	840.0	98 03 16.8	278 02 47.6	Benn	3.053929	1,132.2
			126 52 52.1	306 52 35.8	Hough	2.894574	784.5
Bruffs, 1909	38 51 31.979	986.1	2 06 49.0	182 06 48.2	Law	2.921698	835.0
	76 11 33.559	809.1	61 04 57.2	241 04 40.1	Hough	2.876242	752.6
Won, 1909	38 51 42.183	1,300.8	300 00 13.5	120 00 27.7	Bruffs	2.798785	629.2
	76 11 56.157	1,353.9	335 53 41.0	155 53 54.4	Law	3.099980	1,258.9
			9 29 18.2	189 29 15.3	Hough	2.837422	687.7
Nose, 1909	38 52 08.263	254.8	354 05 44.1	174 05 47.1	Bruffs	3.051091	1,124.8
	76 11 38.358	924.7	28 05 08.2	208 04 57.0	Won	2.959781	911.6
South, 1909	38 51 50.500	1,557.2	45 18 10.2	225 17 55.2	Bruffs	2.909543	812.0
	76 11 09.621	232.0	77 07 40.4	257 07 11.2	Won	3.061051	1,150.9
			128 19 57.0	308 19 39.0	Nose	2.946052	883.2
Snout, 1909	38 52 14.933	460.5	339 26 10.1	159 26 17.4	South	2.905628	804.7
	76 11 21.344	514.5	12 32 08.6	192 32 00.9	Bruffs	3.132546	1,356.9
			63 22 11.2	243 22 00.5	Nose	2.661660	458.8
Stop, 1909	38 52 30.139	929.4	330 31 58.4	150 32 05.3	Snout	2.731240	538.6
	76 11 32.334	779.4	12 08 57.2	192 08 53.4	Nose	2.838869	690.0
Leaven, 1909	38 52 31.645	975.8	27 53 19.0	207 53 11.9	Snout	2.765699	583.0
	76 11 10.031	241.8	43 26 45.5	223 26 27.7	Nose	2.996971	993.0
			85 03 58.2	265 03 44.2	Stop	2.732089	539.6
Orb, 1909	38 52 43.267	1,334.2	297 16 19.0	117 16 37.1	Leaven	2.893264	782.1
	76 11 38.870	937.0	338 44 07.5	158 44 11.6	Stop	2.637894	434.4
Star, 1909	38 52 54.310	1,674.7	344 51 29.2	164 51 34.1	Leaven	2.859769	724.1
	76 11 17.877	430.9	25 03 32.5	205 03 23.4	Stop	2.915285	822.8
			56 03 47.8	236 03 34.6	Orb	2.785264	609.9
Piney, 1909	38 53 07.372	227.3	313 21 02.4	133 21 13.5	Star	2.768440	586.7
	76 11 35.578	857.5	6 05 34.6	186 05 32.5	Orb	2.873620	747.5
Twixt, 1909	38 53 01.149	35.4	9 37 21.7	189 37 20.8	Star	2.330191	213.9
	76 11 16.394	395.1	44 29 47.1	224 29 33.0	Orb	2.888179	773.0
			112 32 27.8	292 32 15.8	Piney	2.699515	500.6
Darce, 1909	38 53 06.845	211.1	39 52 01.0	219 51 57.2	Twixt	2.359539	228.8
	76 11 10.308	248.4	91 31 50.7	271 31 34.9	Piney	2.784822	609.3
Ferry, 1909	38 53 19.301	595.2	354 05 26.1	174 05 27.1	Darce	2.586754	386.1
	76 11 11.957	288.2	10 48 55.7	190 48 52.9	Twixt	2.755772	569.9
			57 08 03.2	237 07 48.4	Piney	2.831101	677.8
Wide, 1909	38 53 12.343	380.6	81 55 18.3	261 54 47.2	Darce	3.081289	1,205.8
	76 10 20.774	500.7	99 52 16.0	279 51 43.9	Ferry	3.097641	1,252.1
Owe, 1909	38 53 33.841	1,043.5	343 50 47.9	163 50 52.9	Wide	2.838947	690.2
	76 10 28.741	692.7	50 16 43.5	230 16 17.4	Darce	3.114789	1,302.5
			66 42 47.1	246 42 20.0	Ferry	3.054591	1,133.9
Twist, 1909	38 53 17.542	540.9	63 59 54.5	243 59 45.9	Wide	2.563119	365.7
	76 10 07.137	172.0	133 59 23.5	313 59 09.9	Owe	2.859533	723.7
Aller, 1909	38 53 39.539	1,219.2	0 21 02.7	180 21 02.6	Twist	2.831424	678.3
	76 10 06.965	167.8	21 38 50.9	201 38 42.2	Wide	2.955324	902.2
			71 29 27.1	251 29 13.4	Owe	2.743057	553.4
Chin, 1909	38 53 46.421	1,431.4	316 57 21.3	136 57 26.5	Aller	2.462956	290.4
	76 10 15.189	366.0	40 05 41.7	220 05 33.2	Owe	2.705085	507.1
Hook, 1909	38 53 48.721	1,502.4	280 21 57.7	100 22 07.8	Chin	2.595702	394.2
	76 10 31.279	753.8	295 47 22.0	115 47 37.3	Aller	2.813433	650.8
			352 24 20.7	172 24 22.3	Owe	2.665504	462.9
Knee, 1909	38 54 11.252	347.0	345 18 52.1	165 18 57.3	Chin	2.898486	791.6
	76 10 23.516	566.6	15 04 15.3	195 04 10.4	Hook	2.857034	719.5
June, 1909	38 54 04.509	139.0	24 00 00.2	203 59 53.7	Chin	2.785728	610.6
	76 10 04.884	117.7	52 34 19.6	232 34 03.0	Hook	2.963630	801.0
			114 51 02.4	294 50 50.7	Knee	2.694410	494.8
Close, 1909	38 54 12.919	398.4	56 21 22.1	236 21 11.9	June	2.670307	468.1
	76 09 48.713	1,173.8	86 29 41.6	266 29 19.7	Knee	2.924377	840.2
Bee, 1909	38 54 27.627	851.9	2 44 18.9	182 44 18.3	Close	2.657108	454.1
	76 09 47.813	1,152.3	29 59 14.5	209 59 03.8	June	2.915416	823.0
			59 35 31.7	239 35 09.3	Knee	2.998925	997.5
No, 1909	38 54 32.761	1,010.3	314 53 16.7	134 53 32.7	Close	2.937989	866.9
	76 10 14.203	342.2	345 32 41.5	165 32 47.3	June	2.954074	899.7

Wye River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Oysters, 1909	38 54 38.078	1,174.2	340 52 44.5	160 52 51.5	Close	2.914397	821.1
	76 09 59.875	1,442.6	6 39 01.4	186 38 58.2	June	3.017929	1,042.1
			64 35 45.9	244 35 36.9	No	2.582269	382.2
Shaw, 1909	38 51 33.518	1,033.6	110 17 03.1	290 16 44.3	Won	2.886970	770.9
	76 11 26.168	630.9	164 39 44.6	344 39 37.0	Nose	3.045714	1,111.0
			217 18 01.9	37 18 12.3	South	2.818454	658.3
Colonel, 1909	38 51 18.232	562.2	111 47 56.2	291 47 25.5	Shaw	3.103606	1,269.6
	76 10 37.277	898.9	141 55 01.5	321 54 41.2	South	3.101826	1,264.2
Edward, 1909	38 51 43.173	1,331.3	0 10 32.2	180 10 32.1	Colonel	2.885984	769.1
	76 10 37.179	896.4	75 51 25.1	255 50 54.3	Shaw	3.085679	1,218.1
			106 07 00.8	286 06 40.4	South	2.910695	814.1
Flat, 1909	38 52 06.781	209.1	355 51 08.1	175 51 09.5	Edward	2.863256	729.9
	76 10 39.369	949.1	55 27 42.6	235 27 23.6	South	2.947138	885.4
Albert, 1909	38 52 08.930	275.4	38 44 30.0	218 44 13.4	Edward	3.007854	1,018.2
	76 10 10.749	259.1	68 11 04.0	248 10 27.0	South	3.184361	1,528.8
			84 31 01.1	264 30 43.1	Flat	2.840815	693.1
Lloyd, 1909	38 51 41.078	1,266.7	95 57 51.3	275 57 35.2	Edward	2.793787	622.0
	76 10 11.521	277.8	181 14 26.5	1 14 27.0	Albert	2.934015	859.0
Cousin, 1909	38 52 04.086	126.0	36 06 58.0	216 06 44.5	Lloyd	2.943611	878.2
	76 09 50.051	1,206.6	60 25 36.9	240 25 07.3	Edward	3.116101	1,306.5
			106 39 56.4	286 39 43.4	Albert	2.716734	520.9
Baldwins, 1909	38 52 16.283	502.1	334 47 28.1	154 47 32.7	Cousin	2.618779	415.7
	76 09 57.395	1,383.6	54 50 37.3	234 50 28.9	Albert	2.595249	393.8
Le Seur, 1909	38 52 17.027	525.0	274 07 59.9	94 08 08.2	Baldwins	2.502632	318.2
	76 10 10.558	254.5	308 54 27.4	128 54 40.3	Cousin	2.803003	635.3
			1 03 30.3	181 03 30.2	Albert	2.397465	249.7
Attila, 1909	38 52 27.589	850.7	340 54 40.5	160 54 43.6	Baldwins	2.566953	368.9
	76 10 02.400	57.9	31 07 26.1	211 07 21.0	Le Seur	2.580333	380.5
Sylvia, 1909	38 52 26.146	806.2	27 13 31.0	207 13 26.9	Baldwins	2.534072	342.0
	76 09 50.904	1,227.1	59 18 41.2	239 18 28.8	Le Seur	2.741119	551.0
			99 07 30.0	279 07 22.8	Attila	2.448200	280.7
Tobine, 1909	38 52 39.023	1,203.3	335 32 21.1	155 32 25.8	Sylvia	2.639727	436.2
	76 09 58.397	1,407.7	15 18 17.2	195 18 14.7	Attila	2.562941	365.5
Gusta, 1909	38 52 37.384	1,152.8	22 57 30.5	202 57 26.7	Sylvia	2.575592	376.4
	76 09 44.814	1,080.2	54 31 55.4	234 31 44.4	Attila	2.716425	520.5
			98 46 39.0	278 46 30.5	Tobine	2.520220	331.3
Nodim, 1909	38 52 45.631	1,407.1	21 08 02.6	201 08 00.0	Gusta	2.435586	272.6
	76 09 40.736	981.9	64 25 30.4	244 25 19.3	Tobine	2.673905	472.0
Sang, 1909	38 52 52.533	1,619.9	294 16 09.0	114 16 21.3	Nodim	2.714144	517.8
	76 10 00.318	7.7	321 20 15.5	141 20 25.2	Gusta	2.776871	598.2
			353 39 22.6	173 39 23.8	Tobine	2.622371	419.2
Turn, 1909	38 52 59.510	1,835.1	331 32 38.3	151 32 44.3	Nodim	2.687351	486.8
	76 09 50.359	1,213.8	48 07 54.8	228 07 48.5	Sang	2.508349	322.4
Go, 1909	38 52 58.651	1,808.6	9 21 40.2	189 21 38.5	Nodim	2.609483	406.9
	76 09 37.990	915.7	70 41 07.3	250 40 53.3	Sang	2.756094	570.3
			95 04 59.3	275 04 51.6	Turn	2.476104	299.3
Divide, 1909	38 52 58.862	1,815.1	59 27 00.2	239 26 42.2	Nodim	2.904517	802.6
	76 09 12.060	290.7	89 24 15.6	269 23 59.3	Go	2.795904	625.0
Quarter, 1909	38 52 44.615	1,375.7	92 15 37.1	272 15 16.4	Nodim	2.900721	795.6
	76 09 07.753	186.9	120 42 24.3	300 42 05.3	Go	2.928220	847.7
			166 42 21.1	346 42 18.4	Divide	2.654598	451.4
Deck, 1909	38 52 53.310	1,659.3	38 13 41.6	218 13 35.8	Quarter	2.557441	360.9
	76 08 58.487	1,409.8	115 27 57.6	295 27 49.1	Divide	2.559131	362.4
Princess, 1909	38 53 04.317	133.1	342 18 06.2	162 18 08.9	Deck	2.531610	340.1
	76 09 02.777	66.9	11 10 07.7	191 10 04.6	Quarter	2.791886	619.3
			53 03 58.2	233 03 52.4	Divide	2.447048	279.9
Philip, 1909	38 53 02.238	69.0	58 32 08.3	238 31 57.3	Deck	2.697155	497.9
	76 08 40.867	985.0	96 55 21.9	276 55 08.2	Princess	2.725873	532.0
Matter, 1909	38 52 52.806	1,628.3	101 55 34.3	281 55 30.5	Deck	2.175330	149.7
	76 08 52.409	1,263.3	144 51 15.7	324 51 09.2	Princess	2.637580	434.1
			223 43 30.3	43 43 37.5	Philip	2.604738	402.5
Whale, 1909	38 52 47.510	1,465.0	102 56 50.4	282 56 31.9	Matter	2.862728	729.0
	76 08 22.933	552.8	136 24 58.4	316 24 47.1	Philip	2.797255	627.0
Granary, 1909	38 52 55.142	1,700.4	3 54 47.4	183 54 47.0	Whale	2.372690	235.9
	76 08 22.265	536.7	84 20 28.7	264 20 09.8	Matter	2.863395	730.1
			116 01 00.6	296 00 48.9	Philip	2.698016	498.9

Wye River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Morn, 1909	38 52 55.193	1,701.9	40 19 49.3	220 19 44.1	Whale	2.492429	310.8
	76 08 14.589	351.6	89 30 45.9	269 30 41.1	Granary	2.267237	185.0
Chew, 1909	38 52 45.829	1,413.2	102 27 47.9	282 27 41.8	Whale	2.380575	240.2
	76 08 13.203	318.2	142 44 28.6	322 44 22.9	Granary	2.557272	360.8
			173 23 55.0	353 23 54.1	Morn	2.463397	290.7
Bush, 1909	38 52 56.660	1,747.2	46 42 41.1	226 42 31.9	Chew	2.687607	487.1
	76 07 58.493	1,409.9	83 20 55.2	263 20 45.1	Morn	2.591718	390.6
Right, 1909	38 52 43.073	1,328.2	108 15 23.0	288 15 16.3	Chew	2.433553	271.4
	76 08 02.511	60.5	142 05 07.4	322 04 59.8	Morn	2.675546	473.7
			193 00 53.0	13 00 55.5	Bush	2.633513	430.0
Wheel, 1909	38 52 45.030	1,388.5	81 07 36.7	261 07 26.6	Right	2.592445	391.2
	76 07 46.474	1,120.2	141 04 14.4	321 04 06.8	Bush	2.663728	461.0
Nub, 1909	38 52 55.740	1,718.8	355 50 10.6	175 50 11.2	Wheel	2.520014	331.1
	76 07 47.472	1,144.2	42 51 47.3	222 51 37.9	Right	2.726659	532.9
			96 05 48.7	276 05 41.8	Bush	2.426774	267.2
Corner, 1909	38 52 31.172	961.2	159 14 55.2	339 14 51.6	Right	2.593768	392.4
	76 07 56.742	1,367.8	210 04 45.6	30 04 52.1	Wheel	2.693587	493.8
Pick, 1909	38 52 28.619	882.5	102 20 42.4	282 20 33.0	Corner	2.566168	368.3
	76 07 41.818	1,008.1	131 47 03.6	311 46 50.6	Right	2.825373	668.9
			167 29 47.1	347 29 44.2	Wheel	2.714628	518.4

Miles River

Principal points							
Ollie, 1909	38 48 43.383	1,337.8	111 31 32.0	291 30 30.4	Sara	3.406210	2,548.1
	76 11 58.975	1,422.9	184 42 22.3	4 42 28.6	Wood	3.472650	2,969.3
Spar, 1909	38 48 34.671	1,069.1	140 40 54.7	320 40 29.1	Sara	3.191823	1,555.3
	76 12 56.380	1,360.3	206 45 52.9	26 46 35.2	Wood	3.558156	3,615.4
			259 01 06.7	79 01 42.7	Ollie	3.149480	1,410.8
Deewat, 1909	38 48 17.596	542.6	142 37 54.0	322 37 43.5	Spar	2.821198	662.5
	76 12 39.714	958.3	231 01 32.9	51 01 58.4	Ollie	3.101858	1,264.3
Swing, 1909	38 48 04.277	131.9	113 16 38.8	293 16 14.0	Deewat	3.016778	1,039.4
	76 12 00.145	3.5	124 38 16.1	304 37 40.9	Spar	2.217250	1,649.1
			181 20 28.4	1 20 29.1	Ollie	3.081413	1,206.2
Millwind, 1909	38 47 42.164	1,300.2	192 49 20.6	12 49 27.1	Deewat	3.049416	1,120.5
	76 12 50.020	1,207.1	240 27 44.5	60 28 15.8	Swing	3.140919	1,383.3
Fair, 1909	38 47 52.706	1,625.2	77 24 31.7	257 23 53.9	Millwing	3.173348	1,490.6
	76 11 49.741	1,200.3	122 28 46.1	302 28 14.8	Deewat	3.155159	1,429.4
			144 52 08.5	324 52 02.0	Swing	2.639773	436.3
Stony, 1909	38 46 32.792	1,011.2	148 43 50.7	328 43 17.0	Millwind	3.398427	2,502.8
	76 11 56.188	1,356.3	183 36 46.7	3 36 50.8	Fair	3.392540	2,469.1
Margo, 1909	38 47 04.968	153.2	47 15 06.8	227 14 38.9	Stony	3.164826	1,461.6
	76 11 11.725	283.0	115 48 41.6	295 47 40.0	Millwind	3.420785	2,635.0
			148 04 09.6	328 03 45.8	Fair	3.239184	1,734.5
Gibbs, 1909	38 46 31.680	976.9	91 11 27.3	271 10 44.3	Stony	3.219852	1,659.0
	76 10 47.476	1,146.0	150 18 34.1	330 18 18.9	Margo	3.072481	1,181.6
Maiden, 1909	38 46 04.439	136.9	131 06 43.3	311 06 17.3	Stony	3.123768	1,329.7
	76 11 14.685	354.5	182 11 31.2	2 11 33.0	Margo	3.271335	1,867.8
			218 01 19.0	38 01 36.0	Gibbs	3.027881	1,066.3
Long, 1909	38 46 12.532	386.4	78 35 44.2	258 35 12.1	Maiden	3.100890	1,261.5
	76 10 23.463	566.4	135 31 43.3	315 31 28.2	Gibbs	2.917737	827.4
Barnett, 1909	38 45 43.252	1,333.7	153 34 16.9	333 34 08.5	Maiden	2.863072	729.6
	76 11 01.234	29.8	192 32 18.9	12 32 27.5	Gibbs	3.184634	1,529.8
			225 16 55.5	45 17 19.2	Long	3.106310	1,283.2
Comb, 1909	38 45 42.069	1,297.2	91 20 33.5	271 19 53.0	Barnett	3.194112	1,563.6
	76 09 56.492	1,363.9	145 16 24.3	325 16 07.4	Long	3.058028	1,143.0
Hall, 1909	38 45 13.161	405.8	140 46 16.5	320 45 56.9	Barnett	3.078416	1,197.9
	76 10 29.857	721.0	184 49 11.2	4 49 15.2	Long	3.264166	1,837.2
			222 06 10.4	42 06 31.3	Comb	3.079722	1,201.5
Ham, 1909	38 45 59.812	1,844.4	29 52 13.4	209 52 05.3	Comb	2.799964	630.9
	76 09 43.478	1,049.6	112 07 03.5	292 06 38.5	Long	3.017846	1,041.9
Hunting, 1909	38 46 27.881	859.7	343 41 16.2	163 41 22.8	Ham	2.955129	901.8
	76 09 53.970	1,302.8	2 28 06.4	182 28 04.9	Comb	3.150434	1,413.9
			56 23 15.6	236 22 57.1	Long	2.931930	854.9
Spree, 1909	38 46 30.783	949.2	12 36 17.9	192 36 12.4	Ham	2.990609	978.6
	76 09 34.632	836.0	79 08 59.8	259 08 47.7	Hunting	2.676973	475.3

Miles River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Kirk, 1909	38 46 20.266	625.8	42 26 52.5	222 28 37.5	Ham	2.932700	856.4
	76 09 19.520	471.2	105 42 41.4	285 42 19.8	Hunting	2.936456	863.9
			131 33 23.0	311 33 13.5	Spree	2.687973	487.5
Whit, 1909	38 46 43.883	1,353.2	26 12 51.5	206 12 42.2	Kirk	2.908862	810.7
	76 09 04.686	113.1	60 48 20.1	240 48 01.3	Spree	2.918075	828.1
McConnell, 1909	38 46 39.045	1,204.0	51 55 37.2	231 55 18.1	Kirk	2.971970	937.5
	76 08 48.948	1,181.6	76 59 41.5	256 59 12.9	Spree	3.053777	1,131.8
			111 26 26.2	291 26 16.4	Whit	2.610786	408.1
Dorrance, 1909	38 46 59.989	1,849.8	347 26 33.5	167 26 37.2	McConnell	2.820632	661.7
	76 08 54.908	1,325.3	25 25 06.1	205 25 00.0	Whit	2.740270	549.9
Doctor, 1909	38 46 51.941	1,601.7	31 16 57.1	211 16 50.8	McConnell	2.667733	465.3
	76 08 38.939	939.9	68 12 33.0	248 12 16.9	Whit	2.825625	669.3
			122 46 38.8	302 46 28.8	Dorrance	2.661269	458.4
Tang, 1909	38 47 12.068	372.1	353 38 52.2	173 38 54.0	Doctor	2.795502	624.5
	76 08 41.801	1,008.9	40 20 38.1	220 20 29.9	Dorrance	2.689009	488.7
Fig, 1909	38 46 59.877	1,846.4	51 34 55.3	231 34 47.3	Doctor	2.595281	393.8
	76 08 26.156	631.3	90 17 16.8	270 16 58.8	Dorrance	2.841347	694.0
			134 52 18.1	314 52 08.3	Tang	2.726583	532.8
Bethel, 1909	38 47 14.642	451.5	38 40 45.4	218 40 35.9	Fig	2.765819	583.2
	76 08 11.055	266.8	83 53 48.8	263 53 29.5	Tang	2.872911	746.3
Johnson, 1909	38 47 24.655	760.3	307 09 29.2	127 09 39.8	Bethel	2.708554	511.2
	76 08 27.934	674.2	356 47 04.4	176 47 05.5	Fig	2.883804	765.3
			40 46 16.3	220 46 07.6	Tang	2.709696	512.5
Lowndes, 1910	38 47 33.776	1,041.5	37 57 46.2	217 57 34.3	Bethel	2.874094	748.3
	76 07 51.982	1,254.5	72 02 36.1	252 02 13.6	Johnson	2.960047	912.1
Henderson, 1910	38 47 24.705	761.8	65 49 35.7	245 49 17.8	Bethel	2.879471	757.7
	76 07 42.416	1,023.7	89 55 26.7	269 54 58.2	Johnson	3.040821	1,098.6
			140 27 57.9	320 27 51.9	Lowndes	2.559530	362.7
Easton, 1910	38 47 36.239	1,117.5	36 53 14.2	216 53 07.3	Henderson	2.648028	444.7
	76 07 31.357	756.7	81 19 40.8	261 19 27.9	Lowndes	2.702010	503.5
Draw, 1910	38 47 43.461	1,340.2	308 24 44.7	128 24 52.0	Easton	2.554416	358.4
	76 07 42.995	1,037.6	358 36 59.6	178 37 00.0	Henderson	2.762326	578.5
			35 59 23.4	215 59 17.8	Lowndes	2.567136	369.1
Chap, 1910	38 47 51.358	1,583.7	15 05 32.4	195 05 29.1	Easton	2.683824	482.9
	76 07 26.147	631.0	59 05 00.0	239 04 49.4	Draw	2.675694	473.9
Villa, 1910	38 47 42.970	1,325.0	70 45 30.5	250 45 15.0	Easton	2.799149	629.7
	76 07 06.721	162.2	90 59 43.6	270 59 20.8	Draw	2.942262	875.5
			118 53 22.7	298 53 10.5	Chap	2.728697	535.4

Leeds Creek

Principal points							
Leeds, 1909	38 47 44.384	1,368.6	13 40 33.5	193 40 19.5	Stony	3.356404	2,272.0
	76 11 33.936	818.9	87 52 18.0	267 51 30.3	Millwind	3.264203	1,837.4
			123 56 03.4	303 55 53.5	Fair	2.662475	459.7
Rieman, 1909	38 47 58.040	1,789.7	11 28 19.0	191 28 16.8	Leeds	2.633135	429.7
	76 11 30.395	733.5	70 35 39.8	250 35 27.7	Fair	2.694585	495.0
Second, 1909	38 48 02.231	68.8	297 27 57.6	117 28 04.0	Rieman	2.447434	280.2
	76 11 40.697	982.1	343 29 10.3	163 29 14.5	Leeds	2.758904	574.0
			36 37 01.8	216 36 56.1	Fair	2.563378	365.9
Beak, 1909	38 48 08.524	262.8	35 51 33.4	215 51 27.3	Rieman	2.600818	398.9
	76 11 20.713	499.8	68 05 01.4	248 04 48.9	Second	2.715841	519.8
But, 1909	38 48 21.278	655.5	321 10 55.7	141 11 03.9	Beak	2.702410	504.0
	76 11 33.805	815.7	353 26 38.4	173 26 40.5	Rieman	2.857724	720.6
			15 49 35.8	195 49 31.5	Second	2.785205	609.8
Mais, 1909	38 48 19.575	603.6	40 55 22.6	220 55 14.9	Beak	2.654173	451.0
	76 11 08.470	204.4	94 51 18.3	274 51 02.4	But	2.787821	613.5
Aber, 1909	38 48 28.996	894.1	316 07 36.4	136 07 43.7	Mais	2.605294	403.0
	76 11 20.045	483.6	1 27 43.4	181 27 43.0	Beak	2.800367	631.5
			54 17 48.9	234 17 40.3	But	2.611570	408.9
Two, 1909	38 48 36.735	1,132.8	3 57 29.4	183 57 28.5	Mais	2.724624	530.4
	76 11 06.952	167.7	52 55 52.4	232 55 44.2	Aber	2.597595	395.9
Face, 1909	38 48 30.725	947.4	38 30 03.6	218 29 56.5	Mais	2.642800	439.3
	76 10 57.135	1,378.6	84 29 32.5	264 29 18.1	Aber	2.744563	555.3
			128 02 25.1	308 02 18.9	Two	2.478219	300.8

Hunting Creek

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Beg, 1909	38 46 22.584	696.4	253 57 49.0	73 58 03.7	Hunting	2.771822	591.3
	76 10 17.512	422.8	310 30 57.3	130 31 18.6	Ham	3.033755	1,080.8
			337 53 27.9	157 53 41.1	Comb	3.129833	1,348.4
Search, 1909	38 46 38.947	1,201.0	294 07 55.7	114 08 15.5	Hunting	2.921458	834.6
	76 10 25.520	616.0	339 02 10.6	159 02 15.6	Beg	2.732663	540.3
Tug, 1909	38 46 48.120	1,483.8	326 19 52.4	146 20 03.2	Hunting	2.874984	749.9
	76 10 11.191	270.1	10 58 02.3	190 57 58.3	Beg	2.904212	802.1
			50 43 34.3	230 43 25.3	Search	2.650124	446.8

Chesapeake Bay, Kent Island to Patuxent River

Principal points							
Barren Island 2, 1897	38 19 45.463	1,401.8	317 29 07.0	137 23 01.4	Toms Point 2	4.004110	10,095.1
	76 15 50.194	1,219.2	13 59 20.5	193 57 08.9	Point No Point	4.330917	21,424.8
			106 35 56.3	286 31 07.9	Calvert	4.070915	11,773.8
Cedar Point Lighthouse, 1897	38 17 57.762	1,781.0	161 49 53.3	341 48 57.3	Calvert	3.846768	7,027.0
	76 22 04.676	113.6	219 54 53.5	69 58 45.7	Barren Island 2	3.986090	9,684.8
Meekins Neck 2, 1897	38 23 13.163	405.9	345 22 52.4	165 23 35.1	Barren Island 2	3.820742	6,618.2
	76 16 58.964	1,431.1	37 23 04.3	217 19 54.6	Cedar Point Lighthouse	4.087596	12,234.8
			72 26 10.5	252 22 04.7	Calvert	4.003612	10,083.5
Cove Point Lighthouse, 1848	38 23 10.379	320.0	269 24 01.6	89 27 42.9	Meekins Neck 2	3.936961	8,648.9
	76 22 55.310	1,342.4	301 26 09.1	121 30 32.9	Barren Island 2	4.082854	12,101.9
			308 37 44.3	128 45 02.5	Toms Point 2	4.342173	21,987.4
			352 43 33.0	172 44 04.4	Cedar Point Lighthouse	3.987540	9,717.2
Barnes, 1898	38 27 01.421	43.9	338 38 10.2	153 39 20.7	Meekins Neck 2	3.878348	7,557.0
	76 18 52.393	1,270.4	34 13 31.0	214 10 35.5	Calvert	4.086209	12,195.8
Point of Rocks, 1898	38 24 51.977	602.7	245 42 21.9	65 46 08.9	Barnes	3.987366	9,713.3
	76 24 57.493	1,394.8	284 39 41.0	104 44 38.2	Meekins Neck 2	4.079351	12,004.7
			305 22 47.0	125 28 26.6	Barren Island 2	4.212300	16,305.2
			316 33 59.2	136 35 15.0	Cove Point Lighthouse	3.634802	4,313.2
Travers 2, 1897	38 28 10.886	335.7	336 01 43.5	156 03 28.0	Meekins Neck 2	4.001965	10,045.3
	76 19 47.124	1,142.4	21 20 22.2	201 18 00.6	Calvert	4.127732	13,419.4
			26 14 33.3	206 12 36.3	Cove Point Lighthouse	4.014065	10,329.2
			50 51 09.0	230 47 56.1	Point of Rocks	3.987185	9,709.2
Flag Pond, 1897	38 27 14.162	436.7	261 10 00.6	81 14 50.7	Travers 2	4.058508	11,442.2
	76 27 33.524	812.9	271 44 06.3	91 49 30.4	Barnes	4.101829	12,642.4
			295 42 47.6	115 49 22.0	Meekins Neck 2	4.232823	17,093.2
			318 03 22.8	138 06 15.7	Cove Point Lighthouse	4.004409	10,102.0
Parker, 1898	38 31 39.668	1,223.1	291 35 21.1	111 42 17.8	Travers 2	4.241830	17,451.4
	76 30 56.504	1,368.6	323 20 50.2	143 25 49.4	Cove Point Lighthouse	4.291441	19,563.2
			325 16 24.6	145 20 08.0	Point of Rocks	4.184390	15,289.4
			328 58 53.7	149 01 00.0	Flag Pond	3.980048	9,551.0
Hog 2, 1898	38 18 35.882	1,106.4	172 37 00.1	352 36 48.5	Up	3.548585	3,536.6
	76 23 59.752	1,451.7	186 15 14.6	6 15 30.0	Calvert	3.743033	5,533.9
			230 02 37.0	50 06 58.1	Meekins Neck 2	4.124598	13,322.9
			259 43 53.7	79 48 57.3	Barren Island 2	4.082227	12,084.5
			292 47 25.2	112 48 36.6	Cedar Point Lighthouse	3.481881	3,033.1
Carroll 2, 1898	38 18 16.335	503.7	193 48 13.9	13 48 39.7	Up	3.626571	4,232.2
	76 25 00.048	1.2	231 52 57.7	51 57 56.2	Meekins Neck 2	4.171450	14,840.5
			247 37 56.6	67 38 34.0	Hog 2	3.199785	1,584.1
Drum Point Lighthouse, 1898	38 19 09.569	295.1	238 03 53.2	58 09 01.5	Meekins Neck 2	4.152788	14,216.3
	76 25 16.070	390.4	265 20 52.6	85 26 43.6	Barren Island 2	4.139565	13,790.0
			295 26 38.4	115 28 37.1	Cedar Point Lighthouse	3.711831	5,150.3
			299 15 05.2	119 15 52.5	Hog 2	3.327400	2,125.2
			346 39 25.6	166 39 35.5	Carroll 2	3.227087	1,686.9
Hard, 1898	38 35 53.756	1,657.5	311 23 17.1	131 30 12.8	Travers 2	4.333696	21,562.3
	76 30 54.440	1,316.4	333 42 04.5	153 47 02.8	Cove Point Lighthouse	4.419070	26,246.4
			336 59 59.2	157 03 41.6	Point of Rocks	4.345623	22,162.7
			343 05 07.0	163 07 12.2	Flag Pond	4.223869	16,744.4
			0 21 55.3	180 21 54.0	Parker	3.894033	7,834.9
James Point 2, 1897	38 31 50.557	1,558.9	25 33 25.1	205 30 47.1	Point of Rocks	4.155448	14,303.7
	76 20 43.142	1,045.0	49 26 29.2	229 22 13.8	Flag Pond	4.117188	13,097.5
			88 45 30.2	268 39 08.1	Parker	4.172041	14,860.8
			116 55 26.5	296 49 05.4	Hard	4.219877	16,591.2
Hill Point 2, 1898	38 33 57.548	1,774.5	34 53 37.1	214 52 26.8	James Point 2	3.678831	4,773.4
	76 18 50.405	1,220.3	76 28 12.8	256 20 40.3	Parker	4.257439	18,090.0
			101 37 06.8	281 29 35.3	Hard	4.252548	17,887.4
Sharp South, 1898	38 36 55.510	1,711.6	319 49 41.7	139 51 41.0	Hill Point 2	3.856105	7,179.7
	76 22 01.711	41.4	348 33 30.1	168 34 19.1	James Point 2	3.981980	9,593.6
			10 49 20.6	190 47 31.3	Point of Rocks	4.356265	22,712.5
			53 05 37.6	233 00 04.1	Parker	4.209524	16,200.3
			81 38 34.7	261 33 02.2	Hard	4.114941	13,029.9

Chesapeake Bay, Kent Island to Patuxent River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Sharp North, 1898	38 37 32.002	986.8	326 04 06.2	146 06 00.8	Hill Point 2	3.901370	7,968.4
	76 21 54.131	1,309.3	350 43 27.2	170 44 11.5	James Point 2	4.028068	10,667.6
			9 15 23.0	189 15 18.3	Sharp South	3.056920	1,140.0
			10 44 55.7	190 43 01.7	Point of Rocks	4.377527	23,852.1
			76 59 58.7	256 54 21.5	Hard	4.127717	13,418.9
Cooks Point 2, 1898	38 37 52.765	1,627.0	13 58 30.6	193 57 44.1	Hill Point 2	3.873547	7,473.9
	76 17 35.850	867.1	22 06 30.7	202 04 34.0	James Point 2	4.081115	12,053.6
			74 40 23.3	254 37 37.3	Sharp South	3.824075	6,669.2
			84 10 16.5	264 07 35.3	Sharp North	3.797975	6,280.2
Ill, 1898	38 39 17.301	533.5	282 52 02.3	102 58 07.8	Sharp North	4.162082	14,523.9
	76 31 39.467	954.3	287 19 24.8	107 25 25.5	Sharp South	4.165600	14,642.0
			297 51 04.4	117 59 04.3	Hill Point 2	4.323420	21,058.1
			310 52 37.1	130 59 26.5	James Point 2	4.322734	21,024.9
			336 53 09.2	156 58 35.7	Cove Point Lighthouse	4.510622	32,405.7
			339 55 07.2	159 59 17.8	Point of Rocks	4.453357	28,402.5
Poplar 2, 1898	38 45 17.198	530.3	355 06 25.6	175 06 57.3	Sharp North	4.158269	14,396.9
	76 22 44.895	1,084.0	34 18 07.2	214 13 01.2	Hard	4.322656	21,021.1
			49 22 44.1	229 17 09.8	Ill	4.231202	17,029.5
Sinker, 1898	38 46 00.899	27.7	328 08 04.6	148 08 26.4	Poplar 2	3.200475	1,586.6
	76 23 19.584	472.8	352 29 44.3	172 30 37.7	Sharp North	4.199409	15,827.4
			30 27 47.5	210 23 03.2	Hard	4.336679	21,711.0
			44 11 06.1	224 05 53.5	Ill	4.239105	17,342.2
Poplar North, 1898	38 46 45.006	1,387.8	10 35 31.2	190 35 17.9	Poplar 2	3.440046	2,754.5
	76 22 23.926	577.4	101 42 52.3	281 37 44.1	Nut	4.083607	12,122.9
			110 17 18.4	290 12 37.7	Franklin 2	4.061259	11,514.9
			122 10 04.9	302 05 41.1	Horseshoe 2	4.078906	11,992.4
			130 16 19.1	310 11 10.7	Dutchman 2	4.191300	15,534.6
			140 00 39.3	319 56 17.4	Gowan 2	4.194635	15,654.3
			154 13 01.1	334 10 01.0	Thomas 2	4.201291	15,896.1
			175 44 39.0	355 44 24.4	Bloody 2	3.879440	7,576.0
Fairhaven 2, 1898	38 45 16.197	499.4	264 48 21.9	84 54 59.3	Sinker	4.187223	15,389.4
	76 33 54.415	1,313.9	269 49 57.0	89 56 56.0	Poplar 2	4.208617	16,166.5
			309 21 58.5	129 29 28.7	Sharp North	4.352896	22,537.0
			313 40 29.9	133 49 54.5	Hill Point 2	4.480865	30,259.7

Gov., 1898	38 30 10.158	313.2	162 35 02.5	342 34 40.2	Parker	3.461293	2,892.6
	76 30 20.760	503.0	175 36 04.0	355 35 43.0	Hard	4.026374	10,626.1
			247 11 26.9	67 18 36.9	Hill Point 2	4.258428	18,131.3
			257 28 33.0	77 34 32.6	James Point 2	4.156305	14,331.9
			330 36 40.4	150 37 23.0	Saint	3.529510	3,384.6
Punch, 1898	38 24 59.231	1,826.4	54 55 24.0	234 51 34.0	Calvert	4.040887	10,987.2
	76 17 24.569	596.0	88 52 23.0	268 47 41.6	Point of Rocks	4.041010	10,990.3
			99 54 49.7	279 49 04.8	Wilson 2	4.135598	13,664.6
			149 41 04.0	329 39 35.4	Travers 2	3.835464	6,846.4
			150 31 31.8	330 30 37.2	Barnes	3.636302	4,328.1
Tar, 1898	38 21 49.541	1,527.6	87 25 01.8	267 20 39.0	Calvert	4.012395	10,289.5
	76 16 31.548	765.9	114 39 25.8	294 34 11.7	Point of Rocks	4.130527	13,506.0
			165 31 48.7	345 31 31.7	Meekins Neck 2	3.425349	2,662.9
			324 50 34.6	144 52 27.6	Pons	3.885748	7,686.8
			345 17 20.0	165 17 45.6	Barren Island 2	3.597187	3,955.4
Mint, 1898	38 20 49.944	1,540.0	95 48 46.8	275 43 00.6	Calvert	4.133949	13,612.8
	76 14 17.119	415.7	115 42 09.4	295 35 31.8	Point of Rocks	4.236582	17,241.8
			119 23 27.4	299 22 04.0	Tar	3.573533	3,745.7
			138 21 13.2	318 19 32.8	Meekins Neck 2	3.771648	5,910.8
South, 1900	38 19 31.160	960.8	72 39 51.4	252 35 56.4	Cedar Point Lighthouse	3.984393	9,647.0
	76 15 45.697	1,109.9	122 58 48.4	302 54 21.8	Cove Point Lighthouse	4.094458	12,429.3
North, 1900	38 20 31.044	957.2	62 03 48.5	242 00 01.3	Cedar Point Lighthouse	4.003357	10,077.6
	76 15 58.273	1,415.2	170 36 21.8	350 36 21.8	Sub North	0.702430	5.04
			350 36 21.8	170 36 29.6	South	3.272193	1,871.5
North Secondary, 1900	38 20 31.527	972.1	352 06 59.4	172 07 06.0	South	3.273945	1,879.1
	76 15 56.308	1,367.4	62 06 57.0	242 03 08.6	Cedar Point Lighthouse	4.005470	10,126.7
			72 39 43.0	252 39 41.8	North	1.698970	50.0
South Secondary, 1900	38 19 32.190	992.6	72 39 54.0	252 39 51.4	South	2.027757	106.6
	76 15 41.508	1,008.2	167 21 16.5	347 21 06.1	North	3.269461	1,859.8
Wilson 2, 1897	38 26 15.165	467.6	144 17 05.6	324 16 32.0	Flag Pond	3.350358	2,240.6
	76 26 39.581	959.9	148 07 32.3	328 04 52.4	Parker	4.071341	11,785.3
			160 55 56.8	340 53 18.0	Hard	4.275973	18,878.7
			218 31 42.7	38 36 34.7	Hill Point 2	4.260911	18,235.2
			219 50 38.6	39 54 20.3	James Point 2	4.129538	13,475.3
			250 19 44.4	70 24 00.9	Travers 2	4.026062	10,618.5
			262 47 02.7	82 51 53.1	Barnes	4.057629	11,419.0
Wilson 3, 1898	38 26 22.150	683.0	151 24 06.8	331 23 44.3	Flag Pond	3.261645	1,826.6
	76 26 57.463	1,393.9	252 08 58.8	72 13 26.4	Travers 2	4.039807	10,959.9
			264 04 49.2	84 09 50.7	Barnes	4.072811	11,825.2
			291 48 53.1	111 55 05.0	Meekins Neck 2	4.194398	15,645.8
			296 24 21.6	116 24 32.7	Wilson 2	2.685055	484.2

42900°—25†——9

Chesapeake Bay, Kent Island to Patuxent River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
***Principal points*—Continued**	° ′ ″		° ′ ″	° ′ ″			
Pat, 1898	38 21 40.080	1,235.8	202 38 50.0	22 40 58.9	Travers 2	4.115895	13,058.6
	76 23 14.543	353.1	212 40 33.3	32 43 16.3	Barnes	4.070932	11,774.2
			252 29 34.2	72 33 27.4	Meekins Neck 2	3.980365	9,558.0
			288 05 46.0	108 10 21.7	Barren Island 2	4.055165	11,354.4
			10 56 45.7	190 56 17.6	Hog 2	3.762274	5,784.6
Paca 2, 1898	38 46 35.486	1,094.2	220 40 50.4	40 41 51.7	Nut	3.558688	3,621.5
	76 32 13.676	330.1	240 04 55.6	60 10 50.6	Bloody 2	4.197552	15,759.8
			274 40 56.3	94 46 30.8	Sinker	4.111145	12,937.3
			279 55 16.8	100 01 12.2	Poplar 2	4.144340	13,942.5
			44 51 30.4	224 50 27.4	Fairhaven 2	3.537646	3,448.6
Holland North 2, 1898	38 43 41.178	1,269.7	131 25 00.9	311 23 34.8	Fairhaven 2	3.646413	4,430.1
	76 31 36.831	889.6	170 36 15.3	350 35 52.2	Paca 2	3.736240	5,448.0
			190 16 14.3	10 16 52.5	Nut	3.916629	8,253.3
			194 44 03.1	14 45 09.0	Franklin 2	3.999238	9,982.5
Holland 2, 1898	38 42 41.253	1,272.0	221 03 48.3	41 08 55.3	Bloody Point Bar Lighthouse	4.255295	18,000.9
	76 31 41.300	997.9	243 01 23.9	63 06 37.9	Sinker	4.133265	13,591.4
			249 35 27.4	69 41 03.0	Poplar 2	4.140500	13,819.8
			303 50 28.2	123 56 35.0	Sharp North	4.233012	17,100.6
Rail, 1898	38 41 07.668	236.4	188 44 23.0	8 44 34.4	Holland 2	3.465332	2,919.7
	76 31 59.663	1,442.0	234 12 39.8	54 18 05.2	Sinker	4.189730	15,478.5
			240 05 26.6	60 11 13.6	Poplar 2	4.189035	15,453.8
			294 22 28.8	114 28 46.9	Sharp North	4.206314	16,081.0
			298 12 59.9	118 19 13.1	Sharp South	4.215301	16,417.3
			304 43 06.2	124 51 18.7	Hill Point 2	4.366358	23,086.5
			316 19 25.4	136 26 27.5	James Point 2	4.375269	23,246.5
Blake 2, 1898	38 39 45.412	1,400.3	188 17 50.2	8 18 10.6	Holland 2	3.738740	5,479.5
	76 32 14.028	339.2	285 17 27.5	105 23 54.6	Sharp North	4.191605	15,545.5
			289 25 44.2	109 32 06.3	Sharp South	4.196133	15,708.4
			298 48 56.6	118 57 18.0	Hill Point 2	4.346453	22,205.1
			311 09 03.6	131 16 14.5	James Point 2	4.346828	22,224.3
Up, 1898	38 20 29.631	913.6	244 40 05.2	64 44 38.0	Meekins Neck 2	4.071933	11,801.4
	76 24 18.466	448.5	276 15 06.0	96 20 21.3	Barren Island 2	4.094097	12,419.3
			294 32 22.5	114 40 32.0	Tom's Point 2	4.324377	21,104.6
			341 59 50.0	162 02 53.1	Point No Point	4.367168	23,289.9

Mill, 1900	38 35 06.373	196.5	123 47 55.3	303 45 02.2	Sharp North	3.907273	8,077.4
	76 17 16.645	402.8	174 49 35.7	354 49 23.7	Cooks Point 2	3.711950	5,151.7
Paw, 1898	38 42 18.187	560.8	9 35 36.3	189 34 57.8	Sharp North	3.951806	8,949.6
	76 20 52.473	1,268.0	82 22 37.1	262 15 40.1	Rail	4.211375	16,269.5
			106 16 21.5	286 08 12.5	Fairhaven 2	4.293784	19,669.1
			153 48 53.7	333 47 43.4	Poplar 2	3.788995	6,151.7
Force, 1898	38 44 00.953	29.4	6 05 56.6	186 05 47.8	Paw	3.503362	3,186.9
	76 20 38.460	928.9	8 40 40.3	188 39 53.0	Sharp North	4.083936	12,132.1
			14 50 31.1	194 49 19.2	Sharp Island Lighthouse	4.035656	10,855.7
			96 57 06.4	276 48 48.4	Fairhaven 2	4.286946	19,361.8
			127 36 25.1	307 35 06.0	Poplar 2	3.585874	3,853.7
			169 38 52.7	349 37 54.8	Kent Point	4.058674	11,446.5
Franklin 2, 1898	38 48 54.249	1,672.7	195 06 10.5	15 06 27.3	Horseshoe 2	3.394197	2,478.5
	76 29 51.595	1,244.8	209 47 57.9	29 50 16.6	Thomas Point Shoal Lighthouse	4.030724	10,733.1
			227 29 01.6	47 33 58.4	Price 2	4.189274	15,462.3
			250 44 12.9	70 48 39.0	Bloody 2	4.035042	10,840.3
			257 18 26.8	77 22 25.3	Bloody Point Bar Lighthouse	3.973522	9,408.5
			299 25 57.3	119 30 02.9	Sinker	4.036092	10,866.6
Nut, 1898	38 48 04.539	140.0	214 51 19.4	34 51 47.1	Franklin 2	3.271400	1,868.1
	76 30 35.848	865.0	226 07 24.1	46 12 48.5	Price 2	4.237796	17,290.0
			245 39 55.4	65 44 49.2	Bloody 2	4.093508	12,402.5
			250 38 01.3	70 42 27.5	Bloody Point Bar Lighthouse	4.035850	10,860.5
			289 51 57.2	109 56 30.5	Sinker	4.049172	11,198.8
			42 44 07.7	222 42 03.5	Fairhaven 2	3.849139	7,065.4
Dare 2, 1907	38 33 44.629	1,376.1	180 55 07.7	0 55 09.3	Hard	3.600114	3,982.1
	76 30 57.080	1,382.0	235 01 46.5	55 07 00.7	Sharps Island Lighthouse	4.172154	14,864.6
			329 06 52.5	149 11 52.3	Cove Point Lighthouse	4.357518	22,778.1
Wharf, 1907	38 41 31.012	956.2	165 57 48.9	345 57 34.2	Holland 3	3.555818	3,596.0
	76 31 20.241	489.1	294 42 01.3	114 47 30.4	Sharps Island Lighthouse	4.146873	14,024.0
			355 11 17.8	175 11 34.5	Plum 3	3.886137	7,693.7
			6 20 02.4	186 19 50.1	Ill 2	3.617929	4,148.9
			20 23 33.0	200 23 12.6	Beach	3.343120	2,203.5
Pen, 1907	38 34 00.006	0.2	172 29 03.9	352 28 52.0	Hard	3.548744	3,537.9
	76 30 35.319	855.1	235 23 01.0	55 28 01.7	Sharps Island Lighthouse	4.151107	14,161.4
			48 00 59.3	228 00 45.9	Dare 2	2.850501	708.8
Patch, 1907	38 32 53.619	1,653.3	181 59 12.1	1 59 17.1	Hard	3.744907	5,557.9
	76 31 02.403	58.2	197 45 40.4	17 45 57.4	Pen	3.332336	2,149.5
			230 39 03.8	50 44 21.3	Sharps Island Lighthouse	4.201894	15,918.2
			326 40 05.0	146 45 08.1	Cove Point Lighthouse	4.332722	21,514.0
Rob, 1907	38 33 00.043	1.3	196 29 39.0	16 29 49.5	Dare 2	3.156500	1,433.8
	76 31 13.894	336.5	206 47 50.3	26 48 14.3	Pen	3.316275	2,071.5
			305 26 41.0	125 26 48.2	Patch	2.533448	341.6

Chesapeake Bay, Kent Island to Patuxent River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Sharps Island Lighthouse, 1898	38 38 20.631	636.2	327 37 17.7	147 37 42.3	Sharp North	3.249307	1,775.4
	76 22 33.436	808.7	343 41 58.2	163 42 18.0	Sharp South	3.436887	2,734.6
			44 36 22.5	224 31 08.8	Parker	4.239369	17,352.8
			69 33 18.0	249 28 05.3	Hard	4.111897	12,938.9
			81 35 48.9	261 30 36.9	Plum Point 2	4.087158	12,222.4
			97 35 09.3	277 29 28.4	Ill	4.124491	13,319.6
			110 40 01.6	290 34 08.1	Rail	4.165149	14,626.8
Holland 3, 1907	38 42 42.394	1,307.1	301 14 01.3	121 19 44.7	Sharps Island Lighthouse	4.191587	15,544.9
	76 31 43.017	1,039.7	7 49 22.2	187 49 02.8	Blake 2	3.741032	5,508.5
Ill 2, 1907	38 39 17.282	532.8	135 49 36.5	315 49 14.7	Blake 2	3.082590	1,209.5
	76 31 39.170	947.2	179 09 28.6	359 09 26.2	Holland 3	3.801086	6,325.4
			277 29 33.7	97 35 14.5	Sharps Island Lighthouse	4.124256	13,312.4
Plum 3, 1907	38 37 22.379	689.8	173 05 45.3	353 05 14.4	Holland 3	3.997383	9,939.9
	76 30 53.563	1,305.8	261 30 39.2	81 35 51.5	Sharps Island Lighthouse	4.087416	12,229.7
Beach, 1907	38 40 24.026	740.8	24 05 48.6	204 05 34.8	Blake 2	3.115372	1,304.3
	76 31 52.003	1,257.1	182 54 46.4	2 54 52.0	Holland 3	3.630646	4,272.1
			285 41 06.9	105 46 55.8	Sharps Island Lighthouse	4.147108	14,031.6
Basford, 1907	38 36 10.964	338.1	181 59 05.5	1 59 07.5	Plum 3	3.343094	2,203.4
	76 30 56.718	1,372.5	251 46 34.3	71 51 48.4	Sharps Island Lighthouse	4.107711	12,814.8
			354 04 31.9	174 04 33.3	Hard	2.727060	533.4
Pier, 1907	38 36 27.426	845.7	31 55 21.9	211 55 05.2	Hard	3.087466	1,223.1
	76 30 27.716	670.6	54 07 22.7	234 07 04.6	Basford	2.937558	866.1
			159 44 46.8	339 44 30.7	Plum 3	3.256763	1,806.2
			253 02 11.5	73 07 07.4	Sharps Island, Lighthouse	4.078905	11,992.4
Franklin, 1906	38 48 56.096	1,729.8	195 15 19.5	15 15 36.2	Horseshoe 2	3.384045	2,421.3
	76 29 51.234	1,236.0	209 54 39.3	29 56 57.8	Thomas Point Shoal Lighthouse	4.028544	10,679.3
			257 38 06.1	77 42 04.5	Bloody Point Bar Lighthouse	3.972558	9,388.3
Nut, 1906	38 48 02.776	85.6	213 36 26.3	33 36 54.5	Franklin	3.295404	1,974.3
	76 30 36.527	881.4	250 23 33.3	70 27 59.9	Bloody Point Bar Lighthouse	4.037191	10,894.1
			42 56 17.7	222 54 13.8	Fairhaven 2	3.845991	7,014.4
Holland, 1906	38 43 40.619	1,252.5	131 47 07.6	311 45 42.1	Fairhaven 2	3.645813	4,424.0
	76 31 37.802	913.1	190 21 54.8	10 22 33.1	Nut	3.914769	8,218.1
			194 48 13.8	14 49 20.2	Franklin	4.002702	10,062.4
			224 59 48.8	45 04 53.4	Bloody Point Bar Lighthouse	4.220219	16,604.2
Broad, 1906	38 47 21.339	658.0	223 13 34.5	43 14 05.6	Nut	3.243950	1,753.7
	76 31 26.300	634.8	246 42 23.7	66 47 21.3	Bloody Point Bar Lighthouse	4.096220	12,480.2
			2 20 15.3	182 20 08.1	Holland	3.833258	6,811.7
			42 49 50.6	222 48 17.8	Fairhaven 2	3.721049	5,260.8
Parker, 1906	38 46 22.188	684.2	217 06 11.3	37 06 47.1	Broad	3.359288	2,287.1
	76 32 23.467	566.5	242 13 59.0	62 19 32.4	Bloody Point Bar Lighthouse	4.161755	14,512.9
			347 30 56.6	167 31 25.2	Holland	3.707798	5,102.7
			47 11 08.8	227 10 11.9	Fairhaven 2	3.476210	2,993.7
Hopkins, 1906	38 46 11.398	351.5	255 45 05.7	75 45 39.7	Parker	3.131052	1,352.2
	76 33 17.759	428.7	332 33 16.2	152 34 18.8	Holland	3.719218	5,238.6
			27 28 26.9	207 28 04.0	Fairhaven 2	3.282965	1,918.5
Wap, 1909	38 42 22.355	689.3	18 04 16.2	198 03 13.4	Sharps Island Lighthouse	3.894315	7,840.0
	76 20 52.880	1,277.7	77 09 22.4	257 02 30.4	Beach	4.213315	16,342.4
Poplar South, 1909	38 45 17.482	539.1	333 38 09.5	153 39 18.8	Wap	3.780065	6,026.5
	76 22 43.638	1,053.7	358 54 00.8	178 54 07.2	Sharps Island Lighthouse	4.109110	12,856.1
			55 42 51.3	235 37 08.3	Beach	4.205308	16,043.8
Great, 1909	38 44 56.054	1,728.5	5 25 35.5	185 25 23.8	Wap	3.677671	4,760.7
	76 20 34.249	827.0	62 56 08.0	242 49 04.1	Beach	4.264786	18,398.7
Front, 1909	38 44 01.127	34.8	7 21 48.3	187 21 38.1	Wap	3.487281	3,071.0
	76 20 36.591	883.8	67 45 21.3	247 38 19.0	Beach	4.246499	17,640.0
			127 30 46.8	307 29 27.3	Poplar South	3.587424	3,867.4
			181 54 49.7	1 54 51.2	Great	3.229076	1,694.6
Dunnock, 1910	38 23 18.545	571.8	36 47 18.2	216 44 09.4	Cedar Point Lighthouse	4.091532	12,346.2
	76 17 00.399	9.7	71 32 52.5	251 29 00.2	Pat	3.981181	9,575.9
			88 21 22.9	268 17 42.5	Cove Point Lighthouse	3.935369	8,617.3
			104 00 56.3	283 56 00.0	Point of Rocks	4.076632	11,929.8
Poplar, 1908	38 28 30.689	946.3	155 44 46.4	335 43 38.9	Parker	3.805611	6,391.6
	76 29 08.110	196.6	272 31 20.6	92 37 09.6	Travers 2	4.133943	13,612.7
Run, 1908	38 30 05.449	168.0	154 39 20.2	334 38 44.8	Parker	3.507141	3,214.7
	76 29 59.692	1,446.4	283 19 49.8	103 26 11.0	Travers 2	4.183586	15,261.1
			336 49 53.3	156 50 25.4	Poplar	3.502162	3,178.1
Supplementary points							
Bareda House, cupola, 1898	38 19 25.311	780.4	287 44 24.3	107 53 24.3	Toms Point 2	4.347167	22,241.6
	76 25 40.146	975.2	297 15 35.6	117 17 49.3	Cedar Point Lighthouse	3.770107	5,889.9
			301 59 32.8	122 00 35.1	Hog 2	3.458779	2,875.9
			335 23 11.7	155 23 36.6	Carroll 2	3.369075	2,339.2

Chesapeake Bay, Kent Island to Patuxent River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
Wilson, north chimney, 1907	38 35 55.903	1,723.7	194 22 43.5	14 23 01.2	Plum 3	3.439759	2,752.7
	76 31 21.820	527.5	232 36 06.5	52 36 22.2	Basford	2.883440	764.6
			275 42 12.2	95 42 29.3	Hard	2.823360	665.8
Hance house chimney, 1907	38 36 00.280	8.6	209 10 00.8	29 10 05.5	Basford	2.576664	377.3
	76 31 04.316	104.4	226 36 44.8	46 37 07.8	Pier	3.085857	1,218.6
			310 05 14.8	130 05 21.0	Hard	2.494592	312.3
White house, northeast chimney, 1898	38 22 33.559	1,034.8	219 54 14.0	39 54 38.3	Cove Point Lighthouse	3.170260	1,480.0
	76 23 34.430	835.7	262 42 56.1	82 47 01.7	Meekins Neck 2	3.985093	9,675.9
			294 39 11.3	114 43 59.4	Barren Island 2	4.093656	12,406.7
Wise's white chimney, 1898	38 16 39.771	1,226.3	257 37 16.1	77 43 37.2	Pons	4.184604	15,296.9
	76 23 44.332	1,077.5	275 13 30.5	95 21 18.5	Toms Point 2	4.265879	18,445.0
			356 04 52.4	176 05 00.3	Tarleton 2	3.662442	4,596.7
Hooper Island, north end, church spire, 1898	38 18 32.321	996.6	329 20 21.3	149 21 39.4	Toms Point 2	3.778918	6,010.6
	76 13 14.861	361.1	59 50 54.9	239 50 45.9	Pons	2.610412	407.8
			85 18 49.4	265 13 21.0	Cedar Point Lighthouse	4.111166	12,917.1
Cooks Point, windmill, 1898	38 37 01.506	46.4	11 15 54.7	191 15 36.5	Mill	3.558688	3,619.8
	76 16 47.429	1,147.4	30 46 40.2	210 44 13.2	James Point 2	4.047562	11,157.4
			97 14 59.3	277 11 47.9	Sharp North	3.873835	7,478.9

Patuxent River

Principal points							
Sand, 1907	38 18 59.157	1,824.0	251 45 37.9	71 46 40.3	Bareda House, cupola	3.411229	2,577.7
	76 27 20.932	508.5	263 56 51.8	83 58 09.3	Drum Point Lighthouse	3.484325	3,050.2
			291 04 54.6	111 06 21.9	Carroll 2	3.564505	3,668.6
Craddock, 1908	38 17 31.125	959.7	165 03 32.1	345 03 13.6	Sand	3.448601	2,809.3
	76 26 51.117	1,242.2	217 15 22.2	37 16 21.2	Drum Point Lighthouse	3.581375	3,814.0
			242 40 27.2	62 41 36.0	Carroll 2	3.482533	3,037.6
Ben, 1907	38 18 16.525	509.5	218 20 56.8	38 21 23.3	Sand	3.224324	1,676.2
	76 28 03.742	90.9	270 03 33.9	90 05 27.7	Carroll 2	3.649651	4,463.2
			308 24 56.7	128 25 41.7	Craddock	3.352669	2,252.5
Crane, 1908	38 19 12.930	398.7	281 30 59.5	101 31 52.7	Sand	3.327492	2,125.7
	76 28 46.670	1,133.7	329 02 46.4	149 03 13.1	Ben	3.307041	2,027.9
New, 1908	38 19 53.166	1,639.3	325 18 31.5	145 19 00.9	Sand	3.306471	2,025.2
	76 28 08.380	203.5	357 50 03.8	177 50 06.7	Ben	3.474491	2,981.9
			36 51 42.3	216 51 18.5	Crane	3.190483	1,550.5
Bur, 1907	38 19 51.153	1,577.2	267 03 21.7	87 03 52.6	New	3.082983	1,210.6
	76 28 58.155	1,412.5	304 09 44.2	124 10 44.5	Sand	3.455512	2,854.4
			346 40 54.5	166 41 01.6	Crane	3.083181	1,211.1
Mill 1907	38 20 04.682	144.4	279 50 09.0	99 51 01.3	New	3.317438	2,077.0
	76 29 32.638	792.7	296 28 26.7	116 28 48.1	Bur	2.971112	935.6
			325 00 53.3	145 01 21.8	Crane	3.289483	1,947.5
Ton, 1907	38 20 32.315	996.4	349 41 53.9	169 41 59.5	New	3.088798	1,226.9
	76 28 17.413	422.9	37 56 39.7	217 56 14.4	Bur	3.206640	1,609.3
			65 00 11.2	244 59 24.5	Mill	3.304451	2,015.8
Nat, 1907	38 20 51.798	1,597.1	284 22 18.5	104 23 18.4	Ton	3.383612	2,418.9
	76 29 53.901	1,308.9	340 25 50.4	160 26 03.6	Mill	3.188030	1,541.8
Hellen, 1907	38 21 12.967	399.8	334 29 21.1	154 29 36.4	Ton	3.142649	1,388.8
	76 28 42.043	1,020.8	30 16 10.7	210 15 39.3	Mill	3.386987	2,437.7
			69 29 46.4	249 29 01.8	Nat	3.270194	1,862.9
Briscoe, 1908	38 21 38.404	1,184.1	288 22 38.7	108 23 39.0	Hellen	3.395613	2,486.6
	76 30 19.232	466.9	336 49 35.8	156 49 51.5	Nat	3.193994	1,563.1
Stump, 1907	38 21 54.432	1,678.4	334 17 41.1	154 17 56.8	Hellen	3.151955	1,418.9
	76 29 07.390	179.5	30 19 15.0	210 18 46.1	Nat	3.349698	2,237.2
			74 11 11.7	254 10 27.1	Briscoe	3.258355	1,812.8
Stock, 1908	38 22 13.218	407.6	280 47 09.5	100 48 27.2	Stump	3.490264	3,092.2
	76 31 12.510	303.7	309 41 06.4	129 41 39.5	Briscoe	3.225528	1,680.8
Lend, 1908	38 22 47.018	1,449.8	339 33 58.2	159 34 13.6	Stump	3.238117	1,730.3
	76 29 32.273	783.3	28 19 14.9	208 18 45.7	Briscoe	3.380788	2,403.2
			66 49 18.3	246 48 16.0	Stock	3.422743	2,646.9
Bars, 1908	38 23 00.666	20.5	276 07 37.0	96 09 17.1	Lend	3.594830	3,934.0
	76 32 13.424	325.8	314 41 29.3	134 42 07.1	Stock	3.318073	2,080.0
Wheat, 1907	38 23 26.115	805.2	309 09 06.4	129 09 44.3	Lend	3.280828	1,909.1
	76 30 33.267	807.3	22 58 09.1	202 57 44.7	Stock	3.387598	2,441.2
			72 07 06.0	252 06 03.8	Bars	3.407271	2,554.3
Mackall, 1908	38 23 27.018	833.1	34 37 34.4	214 36 54.2	Stock	3.441720	2,765.2
	76 30 07.785	188.9	75 05 23.7	255 04 05.7	Bars	3.499086	3,155.6

Patuxent River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Sollers, 1908	38 23 15.067	464.6	44 23 45.1	224 22 57.3	Stock	3.426295	2,668.7
	76 29 55.599	1,349.3	82 27 01.7	262 25 36.1	Bars	3.528195	3,374.4
			141 15 08.9	321 15 01.3	Mackall	2.674394	472.5
Hutchins, 1908	38 23 17.735	546.8	266 02 09.6	86 03 45.3	Wheat	3.574013	3,749.8
	76 33 07.412	179.9	291 52 45.8	111 53 19.3	Bars	3.149848	1,412.0
Island, 1908	38 24 25.075	773.2	306 45 06.2	126 46 08.5	Wheat	3.482549	3,037.7
	76 32 13.559	329.0	359 55 40.5	179 55 40.6	Bars	3.415417	2,602.7
			32 11 24.1	212 10 50.7	Hutchins	3.389761	2,453.4
Sweep, 1908	38 24 41.030	1,265.1	300 30 18.7	120 30 40.1	Island	2.986346	969.0
	76 32 47.970	1,163.8	344 50 23.7	164 50 45.2	Bars	3.505982	3,206.1
			10 24 36.9	190 24 24.9	Hutchins	3.416852	2,611.3
Cole, 1908	38 23 59.977	1,849.3	260 01 08.3	80 03 01.1	Island	3.650489	4,471.9
	76 35 15.077	365.8	292 47 29.3	112 48 48.7	Hutchins	3.526436	3,360.8
Slim, 1908	38 25 28.565	880.8	300 29 26.9	120 30 52.0	Island	3.586232	3,856.8
	76 34 30.536	740.7	333 25 45.8	153 26 37.5	Hutchins	3.654184	4,510.1
			21 35 18.0	201 34 50.3	Cole	3.467979	2,937.5
Forr, 1908	38 24 47.558	1,466.4	245 57 39.4	65 58 52.0	Slim	3.492083	3,105.2
	76 36 27.442	665.8	309 52 29.0	129 53 13.9	Cole	3.359471	2,288.1
Photo, 1908	38 26 06.192	190.9	307 56 35.1	127 57 13.2	Slim	3.275690	1,886.6
	76 35 31.872	773.2	354 01 18.2	174 01 28.6	Cole	3.592508	3,913.0
			29 04 38.1	209 04 03.6	Forr	3.443126	2,774.1
Fight, 1908	38 25 55.384	1,707.7	264 42 00.4	84 43 32.7	Photo	3.558314	3,616.7
	76 38 00.354	8.6	312 51 00.0	132 51 57.8	Forr	3.487797	3,074.7
Battle, 1908	38 26 49.369	1,522.2	310 24 40.0	130 25 20.1	Photo	3.312479	2,053.4
	76 36 36.336	881.1	356 42 42.8	176 42 48.4	Forr	3.575432	3,762.1
			50 45 39.6	230 44 47.4	Fight	3.420139	2,631.1
Oppkitt, 1908	38 26 52.940	1,632.4	272 01 33.6	92 02 53.0	Battle	3.491025	3,097.6
	76 38 43.994	1,066.8	329 11 09.8	149 11 37.0	Fight	3.315196	2,066.3
Kitt, 1908	38 27 34.913	1,076.5	320 58 17.3	140 58 46.5	Battle	3.257110	1,807.6
	76 37 23.276	564.3	16 19 59.1	196 19 36.1	Fight	3.504865	3,197.9
			56 31 56.1	236 31 05.9	Oppkitt	3.370402	2,346.4
Cremona, 1908	38 27 24.913	768.2	264 13 43.8	84 15 02.2	Kitt	3.487430	3,072.1
	76 39 29.341	711.4	311 52 32.3	131 53 00.5	Oppkitt	3.169324	1,476.8
Sheridan, 1908	38 28 03.747	115.5	293 55 01.3	113 55 52.7	Kitt	3.340914	2,192.4
	76 38 45.936	1,113.6	358 45 52.3	178 45 53.5	Oppkitt	3.339208	2,183.8
			41 18 51.7	221 18 24.7	Cremona	3.202517	1,594.1
Collins, 1908	38 28 09.726	299.9	279 01 20.7	99 01 50.5	Sheridan	3.070024	1,175.0
	76 39 33.803	819.5	332 58 15.2	152 58 46.2	Oppkitt	3.424525	2,657.8
			355 31 22.7	175 31 25.5	Cremona	3.141754	1,386.0
Trent, 1908	38 28 34.799	1,073.0	302 29 05.4	122 29 44.0	Sheridan	3.251015	1,782.4
	76 39 47.957	1,162.5	336 04 02.6	156 04 11.4	Collins	2.927277	845.8
Morsel, 1908	38 28 52.220	1,610.2	354 33 12.7	174 33 16.4	Sheridan	3.176492	1,501.4
	76 38 51.815	1,255.9	37 50 37.1	217 50 11.0	Collins	3.219882	1,659.1
			68 27 51.5	248 27 16.6	Trent	3.165249	1,463.0
Billiard, 1908	38 28 51.165	1,577.6	268 53 22.5	88 54 05.8	Morsel	3.227229	1,687.4
	76 40 01.421	34.4	327 06 28.8	147 06 37.2	Trent	2.778850	601.0
Buzz, 1908	38 29 27.076	834.9	334 36 35.1	154 36 48.2	Morsel	3.075444	1,189.7
	76 39 12.860	311.7	27 49 29.2	207 49 07.4	Trent	3.260695	1,822.6
			46 45 02.8	226 44 32.6	Billiard	3.208428	1,616.0
Sothoron, 1908	38 29 30.812	950.1	274 20 37.5	94 21 16.4	Buzz	3.181509	1,518.8
	76 40 15.351	372.0	344 33 34.7	164 33 43.4	Billiard	3.103200	1,268.2
Dwarf, 1908	38 29 55.231	1,703.0	316 07 19.0	136 07 40.4	Buzz	3.080732	1,204.3
	76 39 47.303	1,146.3	9 49 38.7	189 49 29.9	Billiard	3.302075	2,004.8
			42 04 33.2	222 04 15.7	Sothoron	3.006188	1,014.4
Indian, 1908	38 30 22.600	696.8	301 45 01.6	121 45 36.6	Dwarf	3.205072	1,603.5
	76 40 43.573	1,055.8	336 48 50.4	156 49 07.9	Sothoron	3.239833	1,737.1
Hallowing, 1908	38 30 32.346	997.4	349 30 14.6	169 30 20.1	Dwarf	3.065911	1,163.9
	76 39 56.053	1,358.1	13 50 50.1	193 50 38.1	Sothoron	3.290954	1,954.1
			75 22 36.1	255 22 06.6	Indian	3.075528	1,189.9
City, 1908	38 30 50.967	1,571.5	308 38 48.7	128 39 07.1	Hallowing	2.963475	919.3
	76 40 25.687	622.3	354 12 46.1	174 12 52.5	Sothoron	3.395184	2,484.2
			26 21 23.9	206 21 12.8	Indian	2.989510	976.1
Teague, 1908	38 31 35.533	1,095.6	340 14 12.9	160 14 30.9	Hallowing	3.316025	2,070.3
	76 40 24.945	604.2	0 45 00.1	180 44 59.7	City	3.138079	1,374.3
Buena, 1908	38 31 40.180	1,238.9	27 21 55.0	207 21 27.2	Hallowing	3.372012	2,355.1
	76 39 11.373	275.5	49 52 43.1	229 51 56.9	City	3.371898	2,354.5
			85 24 34.7	265 23 48.9	Teague	3.252338	1,787.9

Patuxent River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Leitch, 1908	38 32 20.348	627.4	312 39 24.0	132 39 58.5	Buena	3.261903	1,827.7
	76 40 06.864	166.2	17 35 11.3	197 35 00.0	Teague	3.161244	1,449.6
Prince, 1908	38 32 25.103	774.1	276 59 15.5	96 59 46.3	Leitch	3.080830	1,204.6
	76 40 56.231	1,361.8	298 35 58.3	118 37 03.6	Buena	3.461335	2,892.9
			333 37 36.1	153 37 55.6	Teague	3.231980	1,706.0
Fodder, 1908	38 32 02.621	80.8	205 00 53.8	25 01 02.1	Prince	2.883661	765.0
	76 41 09.588	232.2	250 12 19.8	70 12 58.9	Leitch	3.208038	1,614.5
			307 40 46.3	127 41 14.1	Teague	3.135560	1,366.3
Bon, 1907	38 19 27.904	860.4	286 16 48.9	106 17 38.4	Drum Point Lighthouse	3.304470	2,015.9
	76 26 35.729	867.9	313 30 12.8	133 31 12.1	Carroll 2	3.505842	3,205.1
			5 55 45.4	185 55 35.9	Craddock	3.558715	3,620.1
			51 05 34.2	231 05 06.2	Sand	3.149588	1,411.2
Back, 1907	38 19 35.288	1,088.1	320 55 32.4	140 55 55.4	Sand	3.156846	1,435.0
	76 27 58.171	1,413.2	354 14 06.3	174 14 14.9	How	3.524829	3,348.3
			3 11 35.1	183 11 31.6	Bon	3.386029	2,432.4
How, 1907	38 17 47.242	1,456.7	194 22 28.2	14 22 42.7	Sand	3.359650	2,289.0
	76 27 44.330	1,077.2	208 13 40.7	28 14 23.2	Bon	3.546890	3,522.8
			257 19 15.5	77 20 57.3	Carroll 2	3.611869	4,091.4
Point, 1907	38 24 25.530	787.2	307 02 49.8	127 03 52.0	Wheat	3.483371	3,043.5
	76 32 13.286	322.4	0 00 49.8	180 00 49.8	Bars	3.418000	2,618.2
Town, 1907	38 19 18.987	585.4	62 42 10.9	242 42 01.6	Crane	2.609785	407.2
	76 28 31.775	771.9	147 08 13.0	327 07 56.6	Bur	3.072170	1,180.8
			208 19 55.3	28 20 09.8	New	3.078211	1,197.3
Cable, 1908	38 19 20.117	620.3	173 20 49.6	353 20 45.5	Mill	3.140953	1,383.4
	76 29 26.039	632.5	215 17 12.4	35 17 29.7	Bur	3.069068	1,172.4
			283 02 31.8	103 02 56.2	Crane	2.991960	981.7
Supplementary points							
Peak, 1908	38 24 31.112	959.3	332 45 04.8	152 45 31.2	Wheat	3.352994	2,254.2
	76 31 15.795	383.2	26 38 12.5	206 37 36.7	Bars	3.494124	3,119.8
			50 08 11.7	230 07 02.4	Hutchins	3.547666	3,529.1
			82 26 24.0	262 25 48.1	Island	3.150393	1,413.8

Benedict, Catholic Church, cross, 1908	38 30 51.396	1,584.7	271 37 22.5	91 37 34.5	City	2.668690	466.3
	76 40 44.928	1,088.5	296 22 46.5	116 23 16.9	Hallowing	3.121175	1,321.8
			357 52 57.3	177 52 58.2	Indian	2.948660	888.5
K. of P. flagstaff, 1908	38 19 09.467	291.9	269 55 42.7	89 56 57.9	Drum Point Lighthouse	3.468724	2,942.6
	76 27 17.202	417.9	348 11 31.1	168 11 47.3	Craddock	3.491043	3,097.7
			15 54 45.0	195 54 42.7	Sand	2.519251	330.6
Fishstack, 1908	38 19 24.233	747.2	279 45 09.3	99 46 16.5	Drum Point Lighthouse	3.425964	2,666.6
	76 27 04.257	103.4	304 44 28.9	124 45 45.9	Carroll 2	3.564979	3,672.6
			354 46 05.7	174 46 13.9	Craddock	3.544323	3,502.1
Avondale Catholic Church, cross, 1908	38 19 35.855	1,105.5	302 09 55.8	122 11 35.2	Carroll 2	3.663121	4,603.9
	76 27 40.446	982.4	13 01 45.6	193 01 31.2	Ben	3.399783	2,510.6
			66 17 01.4	246 16 20.3	Crane	3.244795	1,757.1
Solomons Methodist Episcopal Church, 1908	38 19 23.449	723.0	17 21 18.6	197 21 02.2	Ben	3.334832	2,161.9
	76 27 37.201	903.7	79 07 33.5	259 06 50.4	Crane	3.235124	1,718.4
			113 29 13.5	293 28 23.3	Bur	3.331198	2,143.9
Barn, east gable, 1907	38 19 36.012	1,110.4	246 09 49.3	66 10 16.3	Bur	3.062746	1,155.4
	76 29 41.660	1,011.9	270 29 58.1	90 31 02.3	Back	3.400337	2,513.8
			287 10 22.8	107 11 06.2	Town	3.249628	1,776.8
Grove, 1907	38 21 43.705	1,347.6	260 29 59.9	80 30 50.4	Stump	3.301108	2,000.4
	76 30 28.631	695.2	290 06 49.0	110 07 55.2	Hellen	3.440353	2,756.5
			332 11 49.5	152 12 11.1	Nat	3.257575	1,809.6
Brooms, 1907	38 24 25.320	780.7	269 42 56.3	89 43 30.2	Point	3.121973	1,324.3
	76 33 07.865	190.8	295 56 55.9	115 58 32.0	Wheat	3.620607	4,174.5
			333 06 56.8	153 07 30.7	Bars	3.466581	2,928.1

Choptank River

Principal points							
Tilghman 3, 1900	38 40 09.112	281.0	315 14 23.0	135 16 10.6	Cooks Point 2	3.772284	5,919.5
	76 20 28.175	681.1	23 13 48.6	203 12 54.9	Sharp North	3.721943	5,271.6
Nelson 3, 1900	38 42 04.769	147.0	14 01 42.9	194 00 52.7	Cooks Point 2	3.903591	8,009.2
	76 16 15.583	376.6	59 43 49.1	239 41 11.2	Tilghman 3	3.849443	7,070.4
Benoni 2, 1900	38 40 13.595	419.2	61 48 21.6	241 44 52.6	Cooks Point 2	3.962965	9,182.6
	76 12 01.258	30.4	89 23 51.9	269 18 35.2	Tilghman 3	4.088330	12,255.5
			119 10 12.3	299 07 33.3	Nelson 3	3.847464	7,038.2
Todd 2, 1900	38 37 49.376	1,522.5	91 12 31.6	271 10 21.8	Cooks Point 2	3.701430	5,028.4
	76 14 08.007	193.7	115 08 43.1	295 04 45.7	Tilghman 3	4.006583	10,152.7
			158 37 23.1	338 36 03.4	Nelson 3	3.927244	8,457.5
			214 33 53.4	34 35 12.6	Benoni 2	3.732469	5,400.9

Choptank River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Roystone 2, 1900	38 41 33.353	1,028.4	311 47 38.6	131 48 49.7	Benoni 2	3.566973	3,689.5
	76 13 55.042	1,330.2	2 35 59.8	182 35 51.6	Todd 2	3.839698	6,913.5
			38 08 47.4	218 06 29.4	Cooks Point 2	3.936853	8,646.8
			105 55 54.0	285 54 26.0	Nelson 3	3.547989	3,531.7
Bar, 1900	38 41 21.459	661.7	253 13 14.0	73 15 08.7	Nelson 3	3.665605	4,630.3
	76 19 19.040	460.2	310 59 00.1	131 02 14.4	Todd 2	3.998520	9,966.0
			338 47 57.8	158 49 02.2	Cooks Point 2	3.838966	6,901.9
Haven, 1900	38 37 45.600	1,406.1	91 11 14.1	271 08 46.6	Todd 2	3.757218	5,717.7
	76 10 11.678	282.5	149 52 01.7	329 50 53.3	Benoni 2	3.722386	5,277.0
Bachelor, 1900	38 40 31.782	980.0	352 40 06.2	172 40 23.2	Haven	3.713192	5,166.4
	76 10 38.934	941.2	45 17 23.8	225 15 13.3	Todd 2	3.852233	7,116.0
			74 16 09.5	254 15 18.1	Benoni 2	3.315466	2,067.6
Chlora, 1900	38 38 14.959	461.3	64 08 38.6	244 07 50.4	Haven	3.317085	2,075.3
	76 08 54.469	1,317.4	84 05 18.6	264 02 02.9	Todd 2	3.882212	7,624.5
			129 01 16.4	308 59 19.8	Benoni 2	3.764342	5,812.2
			149 05 59.6	329 04 54.3	Bachelor	3.691726	4,917.3
Horn, 1900	38 36 20.950	646.0	136 14 38.3	316 13 33.8	Haven	3.558026	3,614.3
	76 08 28.339	685.7	169 48 32.0	349 48 15.7	Chlora	3.552895	3,571.9
Howells, 1900	38 36 37.649	1,160.9	78 40 12.1	258 39 05.9	Horn	3.418117	2,618.9
	76 06 42.215	1,021.4	112 28 58.0	292 26 47.4	Haven	3.739050	5,483.4
			133 10 31.8	313 09 09.2	Chlora	3.642090	4,386.2
Jenkins, 1900	38 35 09.050	279.0	140 32 19.0	320 31 31.9	Horn	3.458164	2,871.9
	76 07 12.906	312.3	195 12 21.5	15 12 40.6	Howells	3.451954	2,831.1
Hambrook, 1900	39 35 33.791	1,041.9	73 50 28.4	253 49 20.6	Jenkins	3.437706	2,739.7
	76 05 24.181	585.1	108 05 15.0	288 03 20.1	Horn	3.670955	4,687.6
			136 12 23.9	316 11 35.2	Howells	3.435863	2,728.1
Kirby, 1900	38 36 54.413	1,677.8	14 12 34.9	194 12 18.7	Hambrook	3.408985	2,564.4
	76 04 58.170	1,407.3	45 06 46.7	225 05 22.6	Jenkins	3.663015	4,602.7
			78 24 17.1	258 23 12.2	Howells	3.409899	2,569.8
Pine, 1900	38 35 39.770	1,226.3	86 42 41.3	266 41 18.9	Hambrook	3.505482	3,202.4
	76 03 12.071	292.1	131 53 10.7	311 52 04.5	Kirby	3.537559	3,447.9
Shoal, 1900	38 34 03.142	96.9	132 02 45.0	312 01 25.1	Hambrook	3.620604	4,174.5
	76 03 16.085	389.4	154 56 17.0	334 55 13.3	Kirby	3.765701	5,830.4
			181 52 03.3	1 52 05.8	Pine	3.474375	2,981.1
Ferry, 1900	38 34 01.025	31.6	91 29 13.8	271 28 08.7	Shoal	3.403146	2,530.1
	76 01 31.609	765.3	141 23 47.7	321 22 45.1	Pine	3.590688	3,896.6
Chancellor, 1900	38 34 43.715	1,347.9	355 55 51.8	175 55 54.2	Ferry	3.120463	1,319.7
	76 01 35.477	858.7	62 49 10.9	242 48 08.2	Shoal	3.437434	2,738.0
Shell, 1900	38 35 02.253	69.5	50 57 24.2	230 56 24.2	Ferry	3.476635	2,996.6
	75 59 55.473	1,342.7	76 43 18.5	256 42 16.1	Chancellor	3.395700	2,487.1
Goose, 1900	38 35 45.536	1,404.1	356 36 22.9	176 36 24.9	Shell	3.126118	1,337.0
	75 59 58.743	1,421.6	34 54 16.0	214 53 18.2	Ferry	3.594288	3,929.1
			50 51 20.9	230 50 20.6	Chancellor	3.479879	3,019.1
Jamaica, 1900	38 36 39.337	1,212.9	18 50 50.4	198 50 24.1	Shell	3.500114	3,163.1
	75 59 13.255	320.7	33 34 02.0	213 33 33.6	Goose	3.299047	1,990.9
War, 1900	38 36 23.713	731.2	40 02 06.9	220 01 12.5	Shell	3.515907	3,280.3
	75 58 28.294	684.6	61 44 02.8	241 43 06.3	Goose	3.395353	2,485.2
			113 53 29.1	293 53 01.0	Jamaica	3.075456	1,189.8
Wick, 1900	38 36 57.989	1,788.1	357 52 31.1	177 52 32.1	War	3.024338	1,057.6
	75 58 29.915	723.7	61 15 32.9	241 15 05.8	Jamaica	3.077707	1,195.9
Wheat, 1900	38 37 55.421	1,708.9	323 41 05.3	143 41 38.9	Wick	3.341960	2,197.7
	75 59 23.712	573.5	353 50 41.2	173 50 47.7	Jamaica	3.372847	2,359.6
Peach, 1900	38 38 22.824	703.8	355 09 08.6	175 09 14.3	Wick	3.419175	2,625.3
	75 58 39.085	945.3	14 31 30.4	194 31 09.0	Jamaica	3.518030	3,296.3
			51 56 54.7	231 56 26.8	Wheat	3.136964	1,370.8
Cabin, 1900	38 37 53.824	1,659.6	19 36 50.3	199 36 34.7	Wick	3.262046	1,828.3
	75 58 04.547	110.0	91 27 47.7	271 26 58.4	Wheat	3.282269	1,915.4
			136 56 03.7	316 55 42.2	Peach	3.087529	1,223.3
Change, 1910	38 43 02.214	68.3	306 38 48.0	126 39 49.6	Nelson 3	3.472330	2,967.1
	76 17 54.100	1,307.0	33 27 27.0	213 26 33.9	Bar	3.570959	3,723.6
Chef, 1909	38 37 55.687	1,717.1	95 59 05.7	275 55 55.4	Sharps Island Lighthouse	3.869788	7,409.5
	76 17 28.742	695.2	157 12 46.1	337 11 37.2	Bar	3.837757	6,882.7
			176 17 29.7	356 17 13.9	Change, 1910	3.976428	9,471.7
			192 57 42.4	12 58 28.1	Nelson 3	3.896610	7,881.5
Dot, 1909	38 37 46.412	1,431.1	93 23 49.4	273 21 44.4	Chef	3.685838	4,851.1
	76 14 08.534	206.4	158 55 34.2	338 54 14.8	Nelson 3	3.931363	8,538.1
			214 07 55.3	34 09 14.8	Benoni 2	3.739062	5,483.6

Choptank River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Roys, 1909	38 41 34.401	1,060.8	3 07 29.0	183 07 19.1	Dot	3.847606	7,040.5
	76 13 52.668	1,272.8	37 46 51.1	217 44 36.1	Chef	3.930988	8,530.8
			105 10 57.7	285 09 28.3	Nelson 3	3.553684	3,578.4
Black, 1909	38 40 06.573	202.7	254 01 05.3	74 05 10.4	Roys	3.993725	9,856.6
	76 20 24.753	598.4	295 22 38.8	115 26 33.8	Dot	4.003119	10,072.1
			313 27 45.8	133 29 35.8	Chef	3.768302	5,865.5
			43 37 04.5	223 36 44.1	Sharps Island Lighthouse	3.654319	4,511.5
Jere, 1909	38 37 06.505	200.6	155 54 20.6	335 53 54.2	Sharps Island Lighthouse	3.398617	2,503.9
	76 21 51.171	1,237.9	200 37 07.2	20 38 01.2	Black	3.773252	5,932.7
			256 32 29.4	76 35 13.2	Chef	3.814697	6,526.8
Choptank River Lighthouse, 1909	38 39 21.563	664.9	56 28 19.4	236 26 25.1	Dot	3.725068	5,309.7
	76 11 05.544	134.1	74 05 10.8	254 01 11.4	Chef	3.983986	9,638.0
			123 54 32.1	303 51 18.3	Nelson 3	3.955551	9,027.2
			135 24 35.9	315 22 51.4	Roys	3.759907	5,753.2
			139 59 20.1	319 58 45.3	Benoni 2	3.321163	2,094.9
			302 55 42.6	122 57 04.5	Chlora	3.577137	3,776.9
Corner, 1909	38 36 48.100	1,483.2	121 16 57.8	301 15 41.4	Dot	3.539549	3,463.8
	76 12 06.154	148.9	163 44 41.5	343 43 35.0	Roys	3.963607	9,196.2
			181 04 11.2	1 04 14.3	Benoni 2	3.801922	6,337.6
			197 12 25.8	17 13 03.7	Choptank River Lighthouse	3.694948	4,953.9
Enter, 1909	38 39 43.945	1,355.0	339 07 01.4	159 07 28.4	Chlora	3.467865	2,936.7
	76 09 37.752	912.8	71 59 46.9	251 58 52.0	Choptank River Lighthouse	3.348707	2,232.1
			104 46 30.7	284 45 01.0	Benoni 2	3.554837	3,587.9
Boone, 1909	38 40 12.908	398.0	310 08 46.6	130 09 14.0	Enter	3.141471	1,385.1
	76 10 21.542	520.8	33 54 07.9	213 53 40.4	Choptank River Lighthouse	3.280455	1,907.5
			90 30 42.5	270 29 40.2	Benoni 2	3.382144	2,410.7
Castle, 1909	38 37 42.041	1,296.3	154 19 21.6	334 18 43.4	Choptank River Lighthouse	3.532137	3,405.2
	76 10 04.523	109.4	189 46 11.9	9 46 28.6	Enter	3.581411	3,814.3
			239 04 13.5	59 04 57.2	Chlora	3.295606	1,975.2
Trappe, 1909	38 37 41.192	1,270.2	334 05 11.5	154 05 36.1	Howells	3.338117	2,178.3
	76 07 21.560	521.5	90 23 41.5	270 21 59.8	Castle	3.595718	3,942.0
			114 52 04.2	294 51 06.2	Chlora	3.393883	2,476.8

Toot, 1909	38 36 19.906	613.8	137 16 49.6	317 15 49.2	Castle	3.537532	3,447.7
	76 08 27.827	673.3	169 42 20.1	349 42 03.5	Chlora	3.556994	3,605.7
			212 35 54.5	32 36 35.8	Trappe	3.473533	2,975.3
			257 54 22.6	77 55 28.5	Howells	3.417187	2,613.3
Howard, 1909	38 35 05.576	171.9	139 15 28.0	319 14 37.1	Toot	3.480782	3,025.4
	76 07 06.223	150.6	175 34 44.8	355 34 35.2	Trappe	3.682391	4,812.7
			191 33 47.4	11 34 02.4	Howells	3.462083	2,897.9
Command, 1909	38 35 33.984	1,047.9	70 35 09.9	250 34 05.9	Howard	3.420637	2,634.1
	76 05 23.578	570.6	135 54 00.9	315 53 11.9	Howells	3.436794	2,734.0
Red, 1909	38 36 54.361	1,676.2	14 00 13.5	193 59 57.6	Command	3.407276	2,554.3
	76 04 58.038	1,404.1	42 46 17.4	222 44 57.4	Howard	3.659798	4,568.8
			78 27 14.9	258 26 09.9	Howells	3.410374	2,572.6
Double, 1909	38 35 38.622	1,190.9	2 24 00.5	182 23 57.3	Shoal	3.469337	2,946.7
	76 03 10.987	265.9	87 27 33.6	267 26 10.9	Command	3.506774	3,212.0
			132 02 49.2	312 01 42.4	Red	3.542534	3,487.7
Cambridge, 1909	38 35 06.005	185.2	129 39 28.7	309 39 01.9	Command	3.130951	1,351.9
	76 04 40.572	982.0	172 47 31.3	352 47 20.4	Red	3.527345	3,367.8
			245 06 21.3	65 07 19.2	Double	3.378407	2,390.0
			313 27 26.0	133 28 18.7	Shoal	3.449906	2,817.8
Boling, 1909	38 35 02.405	74.2	326 27 10.8	146 27 43.1	Ferry	3.356175	2,270.8
	76 02 23.443	567.4	34 53 37.6	214 53 04.8	Shoal	3.347876	2,227.8
			91 55 37.9	271 54 12.4	Cambridge	3.521254	3,320.9
			134 08 48.1	314 08 18.5	Double	3.205068	1,603.5
Rear, 1909	38 34 45.759	1,411.0	346 31 56.8	166 32 05.3	Ferry	3.151783	1,418.3
	76 01 45.253	1,095.3	59 08 37.1	239 07 40.5	Shoal	3.408502	2,561.5
			119 02 46.0	299 02 22.2	Boling	3.024204	1,057.3
Whitehall, 1909	38 34 39.185	1,208.3	55 08 04.0	235 07 20.5	Ferry	3.313450	2,058.0
	76 00 21.859	529.1	94 29 18.7	274 28 32.8	Chancellor	3.252228	1,787.4
			95 44 29.4	275 43 37.4	Rear	3.307229	2,028.8
			221 55 08.1	41 55 24.5	Shell	2.980439	956.0
Barber, 1909	38 35 30.829	950.6	297 48 12.9	117 48 55.9	Shell	3.276154	1,888.7
	76 01 04.495	108.8	327 03 05.1	147 03 31.7	Whitehall	3.278195	1,897.6
			13 20 08.2	193 19 51.3	Ferry	3.454201	2,845.8
			35 22 18.7	215 21 53.3	Rear	3.231529	1,704.2
Duck, 1909	38 35 42.716	1,317.1	241 29 41.1	61 30 41.1	War	3.423170	2,649.5
	76 00 04.521	109.4	350 02 36.0	170 02 41.6	Shell	3.102891	1,266.8
			12 05 30.1	192 05 19.3	Whitehall	3.301769	2,003.4
			75 49 53.9	255 49 16.5	Barber	3.175213	1,497.0
Chief, 1909	38 35 06.803	209.8	85 11 17.3	265 10 34.4	Shell	3.222867	1,670.6
	75 58 46.694	1,130.1	120 27 30.8	300 26 42.3	Duck	3.339443	2,185.0

Choptank River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Gander, 1909	38 35 42.933	1,323.8	9 43 41.5	189 43 36.6	Chief	3.053193	1,130.3
	75 58 38.803	939.0	55 56 52.0	235 56 04.1	Shell	3.350198	2,239.7
			89 49 22.5	269 48 29.0	Duck	3.316892	2,074.4
			191 25 56.1	11 26 02.6	War	3.108194	1,282.9
Jam, 1909	38 36 39.939	1,231.5	241 10 36.3	61 11 02.5	Wick	3.062441	1,154.6
	75 59 11.727	283.7	295 27 17.8	115 27 44.9	War	3.065922	1,163.9
			335 36 55.5	155 37 16.1	Gander	3.285531	1,929.9
			35 54 34.1	215 54 01.2	Duck	3.338128	2,178.4
Spindle, 1909	38 37 00.587	18.1	273 52 34.0	93 53 04.5	Wick	3.073186	1,183.5
	75 59 18.724	453.0	312 58 34.1	132 59 05.6	War	3.222138	1,667.8
			345 06 41.3	165 06 45.6	Jam	2.818754	658.8
Saw, 1909	38 37 20.743	639.6	19 01 17.0	199 01 10.8	Wick	2.870470	742.1
	75 58 19.917	481.8	66 24 22.7	246 23 46.0	Spindle	3.191024	1,552.5
Bank, 1909	38 37 28.637	883.0	277 39 22.4	97 40 09.1	Saw	3.261399	1,825.6
	75 59 34.710	839.6	301 04 46.4	121 05 26.9	Wick	3.262528	1,830.3
			335 54 31.0	155 54 41.0	Spindle	2.976552	947.4
Raccoon, 1909	38 37 57.091	1,760.4	306 46 03.0	126 46 41.7	Saw	3.272353	1,872.2
	75 59 21.915	530.1	19 25 55.7	199 25 47.7	Bank	2.968647	930.4
House, 1909	38 37 39.551	1,219.6	6 22 18.7	186 22 17.0	Saw	2.766083	583.6
	75 58 17.240	417.0	79 49 33.6	259 48 45.2	Bank	3.279654	1,903.9
			109 04 36.9	289 03 56.5	Raccoon	3.218855	1,655.2
Blind, 1909	38 38 23.007	709.4	338 21 15.6	158 21 29.3	House	3.158842	1,441.6
	75 58 39.223	948.6	52 15 58.4	232 15 31.7	Raccoon	3.115829	1,305.7
Hut, 1909	38 38 07.002	215.9	46 37 48.3	226 37 25.2	House	3.090801	1,232.5
	75 57 40.199	972.3	82 55 39.7	262 54 36.2	Raccoon	3.394293	2,479.1
			109 04 32.8	289 03 56.0	Blind	3.179102	1,510.4
Up, 1909	38 38 40.142	1,237.8	336 29 25.9	156 29 37.4	Hut	3.047031	1,114.4
	75 57 58.578	1,416.6	61 44 38.5	241 44 13.1	Blind	3.047654	1,116.0
Myrtle, 1909	38 38 30.159	930.0	7 47 09.3	187 47 06.8	Hut	2.857760	720.7
	75 57 36.162	874.5	81 46 35.8	261 45 56.4	Blind	3.187793	1,541.0
			119 35 28.0	299 35 14.0	Up	2.794767	623.4
Lecompte, 1909	38 36 02.436	75.1	201 11 50.9	21 12 31.8	Chlora	3.641777	4,383.1
	76 09 59.997	1,451.8	231 31 20.0	51 32 58.8	Trappe	3.689799	4,895.5
			256 24 48.7	76 25 46.2	Toot	3.360669	2,294.4
Supplementary points							
Collins house, red spire, 1898	38 41 23.865	735.9	352 22 51	172 23 38	Hill Point 2	4.142534	13,884.6
	76 20 06.445	155.8	109 46 42	289 38 04	Fairhaven 2	4.327273	21,245.8
			146 25 03	326 24 34	Paw	3.303339	2,010.7
Corners Wharf, chimney, 1900 [1]	38 37 03.68	113.5	135 35 23	315 34 47	Todd 2	3.295038	1,972.6
	76 13 10.94	264.6	196 02 52	16 03 36	Benoni 2	3.784876	6,093.7
Cambridge Episcopal Church, spire, 1900	38 34 08.838	272.5	147 22 42	327 21 26	Howells	3.736288	5,448.6
	76 04 40.813	988.1	175 17 53	355 17 42	Kirby	3.709502	5,122.7
			217 26 49	37 27 45	Pine	3.548028	3,532.1
Cambridge standpipe, 1900	38 34 11.764	362.7	148 08 37	328 07 24	Howells	3.724001	5,296.6
	76 04 46.673	1,129.9	176 49 32	356 49 24	Kirby	3.700960	5,023.0
			220 08 59	40 09 58	Pine	3.550304	3,550.6
East Cambridge, spire, 1900	38 34 11.697	360.7	167 57 01.1	347 56 33.5	Kirby	3.710158	5,130.5
	76 04 13.900	336.5	208 51 06.9	28 51 45.5	Pine	3.491473	3,100.8
			209 35 46.6	29 36 25.9	Double	3.488935	3,082.7
Large water tank, Castlehaven, 1909	38 37 33.564	1,034.9	237 42 49.1	57 43 41.3	Chlora	3.378420	2,390.1
	76 10 18.013	435.7	266 49 50.2	86 51 40.3	Trappe	3.630914	4,274.8
			310 25 17.9	130 26 26.7	Toot	3.544330	3,502.1
Black Beacon, 1909	38 37 26.796	826.3	329 48 06.3	149 48 29.0	Howells	3.243866	1,753.3
	76 07 18.665	451.5	356 02 38.0	176 02 45.7	Howard	3.639974	4,364.9
			39 03 25.7	219 02 42.5	Toot	3.424216	2,655.9
Dick's water tank, 1909	38 35 27.710	854.4	73 44 38.7	253 43 38.4	Howard	3.386837	2,436.9
	76 05 29.565	715.5	195 55 56.2	15 56 15.9	Red	3.443835	2,778.7
			264 15 31.4	84 16 57.8	Double	3.527701	3,370.6
Hambrooks Bar Beacon, 1909	38 35 42.163	1,300.1	345 51 16.2	165 51 23.4	Cambridge	3.060616	1,149.8
	76 04 52.181	1,262.8	71 38 28.6	251 38 09.0	Command	2.903409	800.6
			176 21 30.1	356 21 26.4	Red	3.348450	2,230.7
Tall stack, East Cambridge, 1909	38 34 20.441	630.3	155 50 07.6	335 49 51.4	Cambridge	3.187492	1,539.9
	76 04 14.527	351.7	212 31 51.2	32 32 30.8	Double	3.456289	2,859.5
			244 17 33.6	64 18 42.8	Boling	3.474804	2,984.0

[1] No check on this position.

Harris Creek

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Change, 1900	38 43 00.254	7.8	305 23 19.2	125 24 21.5	Nelson 3	3.470367	2,953.7
	76 17 55.233	1,334.4	33 37 16.5	213 36 24.1	Bar	3.563251	3,658.1
Lomax, 1900	38 43 04.408	135.9	273 08 08.9	93 09 09.3	Change	3.368331	2,335.2
	76 19 31.749	767.1	291 11 21.2	111 13 23.9	Nelson 3	3.706200	5,083.9
			354 28 23.6	174 28 31.6	Bar	3.503694	3,189.3
Turkey, 1900	38 43 39.089	1,205.4	24 25 02.3	204 24 12.5	Bar	3.668432	4,660.5
	76 17 59.326	1,433.2	64 24 51.6	244 23 53.8	Lomax	3.393677	2,475.6
Eagle, 1900	38 43 51.187	1,578.4	9 26 53.4	189 26 33.5	Bar	3.670283	4,680.4
	76 18 47.250	1,141.2	36 41 52.4	216 41 24.7	Lomax	3.255021	1,799.0
			37 30 09.7	217 29 44.1	Narrows	3.211317	1,626.7
			287 51 30.1	107 52 00.1	Turkey	3.085013	1,216.2
			319 37 23.3	139 37 56.6	Change 1910	3.297136	1,982.1
			321 20 00.2	141 20 32.9	Change	3.303490	2,011.4
Indian, 1900	38 45 08.548	263.6	351 43 17.9	171 43 28.3	Turkey	3.445223	2,787.6
	76 18 15.942	385.0	17 35 22.7	197 35 03.1	Eagle	3.398361	2,502.4
Dunn, 1900	38 44 55.739	1,718.7	242 46 14.2	62 46 34.1	Indian	2.936167	863.3
	76 18 47.732	1,152.6	333 40 37.7	153 41 08.0	Turkey	3.421088	2,636.9
			359 39 53.2	179 39 53.5	Eagle	3.298966	1,990.5
Smith, 1900	38 45 52.632	1,623.0	339 37 47.7	159 38 00.8	Indian	3.161380	1,450.0
	76 18 36.844	889.5	8 31 24.0	188 31 17.2	Dunn	3.248938	1,773.9
Little, 1900	38 45 59.994	1,850.0	26 03 11.2	206 02 51.1	Indian	3.246935	1,765.8
	76 17 43.825	1,058.0	79 56 52.6	259 56 19.4	Smith	3.113945	1,300.0
Briary, 1900	38 46 05.663	174.6	288 06 17.9	108 06 31.8	Little	2.750116	562.5
	76 18 05.970	144.1	7 47 06.3	187 47 00.1	Indian	3.249830	1,777.6
			61 40 25.8	241 40 06.5	Smith	2.927774	846.8
Avalon, 1909	38 42 34.384	1,060.3	254 06 01.8	74 07 19.8	Change 1910	3.496180	3,134.6
	76 19 53.885	1,422.7	336 49 00.4	156 49 25.3	Bar	3.388480	2,446.1
Narrows, 1909	38 43 09.333	287.8	275 30 16.7	95 31 15.6	Change 1910	3.358882	2,285.0
	76 19 28.245	682.3	356 10 25.8	176 10 31.6	Bar	3.522934	3,333.8
			34 29 17.2	214 28 58.0	Avalon	3.116415	1,307.4
Hen, 1909	38 43 37.570	1,158.5	353 50 47.2	173 50 50.2	Change 1910	3.040026	1,096.5
	76 17 58.965	1,424.4	68 01 22.0	248 00 26.2	Narrows	3.366582	2,325.9
			109 48 10.7	289 47 40.5	Eagle	3.093282	1,239.6
Ball, 1909	38 44 35.792	1,103.7	7 38 31.9	187 38 25.7	Hen	3.258016	1,811.4
	76 17 48.992	1,183.2	45 39 21.1	225 38 44.7	Eagle	3.293948	1,967.7
Dunk, 1909	38 44 44.256	1,364.7	280 39 06.5	100 39 42.4	Ball	3.149607	1,411.3
	76 18 46.422	1,121.0	330 51 35.5	150 52 05.2	Hen	3.371840	2,354.2
			0 42 00.0	180 41 59.5	Eagle	3.213928	1,636.5
Warrior, 1909	38 45 08.719	268.9	328 01 12.1	148 01 28.5	Ball	3.078076	1,196.9
	76 18 15.242	368.0	44 56 59.3	224 56 39.8	Dunk	3.027682	1,065.8
			158 56 09.3	338 55 55.8	Smith	3.161685	1,451.1
Hawk, 1909	38 45 12.613	388.9	192 31 17.0	12 31 24.1	Smith	3.101772	1,264.1
	76 18 48.195	1,163.8	278 34 43.0	98 35 03.6	Warrior	2.905646	804.7
			308 27 02.4	128 27 39.4	Ball	3.261419	1,825.7
			357 11 50.0	177 11 51.1	Dunk	2.942239	875.5
Edmond, 1909	38 45 33.847	1,043.7	29 15 33.0	209 15 21.7	Warrior	2.948474	888.1
	76 17 57.266	1,382.7	61 58 19.4	241 57 47.5	Hawk	3.144005	1,393.2
			121 13 37.6	301 13 12.8	Smith	3.048219	1,117.4
			167 54 39.5	347 54 34.0	Briary	3.001445	1,003.3
Vine, 1909	38 46 15.886	489.9	10 12 21.9	190 12 15.9	Edmond	3.119633	1,317.1
	76 17 47.600	1,149.1	58 54 28.7	238 53 57.9	Smith	3.142499	1,388.4
Dan, 1909	38 46 02.640	81.4	21 25 41.0	201 25 32.0	Edmond	2.979447	953.8
	76 17 42.834	1,034.1	76 41 21.5	256 40 47.7	Smith	3.127089	1,340.0
			99 28 38.9	279 28 24.4	Briary	2.753018	566.3
			164 16 10.4	344 16 07.4	Vine	2.627715	424.3
Fox, 1909	38 46 13.325	410.9	64 53 56.5	244 53 38.3	Dan	2.890212	776.6
	76 17 13.703	330.8	95 30 52.4	275 30 31.2	Vine	2.914922	822.1
Cummings, 1909	38 46 29.681	915.2	317 24 44.7	137 24 56.7	Fox	2.835682	685.0
	76 17 32.905	794.3	16 02 23.8	196 02 17.6	Dan	2.938315	867.6
			39 49 41.4	219 49 32.2	Vine	2.743416	553.9
Rabbit, 1909	38 46 27.593	851.0	12 21 52.1	192 21 49.6	Fox	2.653740	450.5
	76 17 09.707	234.3	96 32 44.2	276 32 29.7	Cummings	2.751014	563.7
Dog, 1909	38 46 43.198	1,332.1	352 10 57.6	172 10 59.3	Rabbit	2.686228	485.5
	76 17 12.443	300.3	1 53 31.7	181 53 30.9	Fox	2.964557	921.6
			49 50 33.5	229 50 20.7	Cummings	2.810425	646.3
Koot, 1909	38 46 18.436	568.5	71 27 22.0	251 27 09.8	Fox	2.695021	495.5
	76 16 54.245	1,309.5	127 07 19.5	307 07 09.8	Rabbit	2.670354	468.1

Harris Creek—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Grace, 1909	38 46 29.664	914.7	15 55 28.9	195 55 26.3	Koot	2.556331	360.0
	76 16 50.153	1,210.7	48 27 20.9	228 27 06.1	Fox	2.880596	759.6
			82 18 57.5	262 18 45.2	Rabbit	2.677888	476.3
Bozman, 1909	38 46 25.578	788.7	71 39 25.8	251 39 08.6	Koot	2.844911	699.7
	76 16 26.733	645.3	102 33 53.0	282 33 38.4	Grace	2.762839	579.2
Mink, 1909	38 46 38.849	1,197.9	324 18 09.3	144 18 16.9	Bozman	2.702341	503.9
	76 16 38.913	939.3	30 27 20.6	210 27 11.0	Koot	2.863436	730.2
			43 46 08.9	223 46 01.9	Grace	2.593531	392.2
Pink, 1909	38 46 47.548	1,466.2	21 52 20.2	201 52 13.1	Bozman	2.863332	730.0
	76 16 15.467	373.3	64 38 31.4	244 38 16.7	Mink	2.796782	626.3
Harrison, 1909	38 46 50.616	1,560.8	281 44 00.3	101 44 12.1	Pink	2.667504	465.1
	76 16 34.331	828.7	346 38 09.5	166 38 14.2	Bozman	2.899571	793.5
			16 57 10.3	196 57 07.4	Mink	2.579000	379.3
Clump, 1909	38 47 04.917	151.6	342 01 06.3	162 01 10.8	Pink	2.750568	563.1
	76 16 22.668	547.1	32 33 08.5	212 33 01.2	Harrison	2.718648	523.2
Miller, 1909	38 47 04.411	136.0	30 56 42.4	210 56 34.3	Pink	2.782674	606.3
	76 16 02.551	61.6	60 59 26.5	240 59 06.6	Harrison	2.943065	877.1
			91 50 25.2	271 50 12.6	Clump	2.686463	485.8
Otto, 1909	38 47 16.919	521.7	348 02 56.7	168 02 58.8	Miller	2.595754	394.2
	76 16 05.933	143.2	47 30 09.0	227 29 58.5	Clump	2.738648	547.8
Lawn, 1909	38 47 15.243	470.0	262 47 46.8	82 47 57.4	Otto	2.615329	412.4
	76 16 22.886	552.4	304 13 59.6	124 14 12.2	Miller	2.773537	593.7
			359 03 17.3	179 03 17.4	Clump	2.503030	318.4
Rod, 1909	38 47 33.032	1,018.6	0 40 05.5	180 40 05.3	Otto	2.696262	496.9
	76 16 05.693	137.4	37 06 20.4	217 06 09.6	Lawn	2.837474	687.8
End, 1909	38 47 36.614	1,129.0	280 08 38.8	100 08 54.8	Rod	2.797296	627.0
	76 16 31.269	754.6	314 48 11.5	134 48 27.3	Otto	2.935413	861.8
			342 55 57.8	162 56 03.0	Lawn	2.838459	689.4
Supplementary points							
Southern M. E. Church, Tilghman Island, 1909	38 41 34.743	1,071.3	207 54 04.0	27 54 44.0	Narrows	3.518584	3,300.5
	76 20 32.175	777.6	234 45 30.8	54 47 09.7	Change, 1910	3.669867	4,675.9
			261 29 07.9	81 31 48.3	Nelson 3	3.797233	6,269.5
			326 41 45.9	146 43 40.5	Chef	3.907437	8,080.5
M. E. Church, Tilghman Island, 1909	38 42 29.998	925.0	238 18 11.7	58 19 39.0	Hen	3.508461	3,967.0
	76 20 18.695	451.7	254 06 50.2	74 08 20.6	Change, 1910	3.560144	3,632.0
			325 41 48.5	145 42 25.8	Bar	3.407944	2,558.3
Schoolhouse cupola, Tilghman Island, 1909	38 42 44.363	1,368.0	236 41 45.4	56 42 15.7	Narrows	3.146874	1,402.4
	76 20 16.762	405.0	243 45 05.3	63 46 31.4	Hen	3.569520	3,711.2
			260 54 50.6	80 56 19.8	Change, 1910	3.542870	3,490.4
			331 22 38.0	151 23 14.1	Bar	3.464213	2,912.1
Peoples Chapel, Tilghman Island, 1909	38 42 55.992	1,726.6	244 18 05.6	64 18 27.7	Narrows	2.977139	948.7
	76 20 03.631	87.7	246 55 46.2	66 57 04.1	Hen	3.514968	3,273.2
			266 28 50.8	86 30 11.8	Change, 1910	3.496274	3,135.3
			339 42 34.7	159 43 02.6	Bar	3.492446	3,107.7
M. E. Church spire, Bozman, 1909	38 46 12.717	392.1	101 52 09.1	281 51 47.3	Koot	2.933317	857.7
	76 16 19.477	470.2	110 43 55.0	290 43 23.5	Rabbit	3.112774	1,296.5
			125 12 41.9	305 12 22.7	Grace	2.957296	906.4

Broad Creek

Principal points							
Ball, 1900	38 43 00.767	23.6	308 25 03.8	128 26 31.7	Roystone 2	3.637148	4,336.6
	76 16 15.633	377.7	359 57 35.1	179 57 35.1	Nelson 3	3.237224	1,726.7
Bridge, 1900	38 43 08.578	264.5	53 28 42.5	233 27 33.7	Nelson 3	3.519228	3,305.4
	76 14 25.654	619.8	84 49 47.2	264 48 38.4	Ball	3.426160	2,667.8
Lead, 1900	38 44 09.209	284.0	325 12 24.5	145 12 58.1	Bridge	3.357260	2,276.5
	76 15 19.424	469.2	32 45 39.2	212 45 04.0	Ball	3.399584	2,509.5
Deep, 1900	38 44 05.823	179.5	3 20 09.3	183 20 06.6	Bridge	3.247523	1,768.2
	76 14 21.395	516.8	53 59 41.6	233 58 30.0	Ball	3.532960	3,411.6
			94 15 54.4	274 15 18.1	Lead	3.147811	1,405.4
Mulberry, 1900	38 44 56.138	1,731.0	343 29 22.8	163 29 34.7	Deep	3.209035	1,618.2
	76 14 40.435	976.4	353 51 17.7	173 51 26.9	Bridge	3.523205	3,335.8
			33 03 15.4	213 02 51.0	Lead	3.237159	1,726.5
Ham, 1900	38 44 57.162	1,762.6	352 49 15.1	172 49 18.6	Cedar	3.033304	1,079.7
	76 13 53.342	1,288.1	54 35 04.6	234 34 10.7	Lead	3.406736	2,551.2
			88 24 52.1	268 24 22.6	Mulberry	3.056016	1,137.7

Broad Creek—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Peary, 1909	38 42 45.833	1,413.3	342 25 02.1	162 25 20.2	Roys	3.363718	2,310.6
	76 14 21.549	520.6	65 19 42.5	245 18 31.2	Nelson 3	3.481782	3,032.4
Annette, 1909	38 43 01.979	61.0	280 07 15.4	100 08 27.5	Peary	3.451843	2,830.4
	76 16 16.875	407.7	307 45 48.6	127 47 18.8	Roys	3.644285	4,408.4
			358 59 11.8	178 59 12.6	Nelson 3	3.246589	1,764.4
Cook, 1909	38 43 08.799	271.3	351 22 35.8	171 22 38.6	Peary	2.855077	716.3
	76 14 25.994	628.0	85 31 13.3	265 30 04.0	Annette	3.429263	2,687.0
Myrtle, 1909	38 43 31.548	972.8	286 07 04.5	106 08 07.3	Cook	3.402339	2,525.5
	76 16 06.423	155.2	299 04 54.8	119 06 00.4	Peary	3.462297	2,899.3
			15 28 47.8	195 28 41.3	Annette	2.975939	946.1
Coal, 1909	38 44 04.420	136.3	320 05 54.5	140 06 31.6	Cook	3.349381	2,235.5
	76 15 25.354	612.4	44 23 08.1	224 22 42.4	Myrtle	3.151764	1,418.3
Ross, 1909	38 44 10.646	328.3	4 06 12.1	184 06 08.6	Cook	3.281489	1,912.0
	76 14 20.331	491.1	64 48 48.1	244 47 41.7	Myrtle	3.452097	2,832.0
			83 02 08.9	263 01 28.2	Coal	3.199255	1,582.2
Skinner, 1909	38 44 56.526	1,743.0	314 27 49.8	134 28 27.2	Ross	3.305254	2,019.5
	76 15 20.007	483.1	4 35 42.0	184 35 38.7	Coal	3.207342	1,611.9
Bald, 1909	38 44 55.688	1,717.2	340 04 40.6	160 04 53.7	Ross	3.169462	1,477.3
	76 14 41.172	994.2	34 01 16.3	214 00 48.7	Coal	3.280414	1,907.3
			91 34 56.3	271 34 32.0	Skinner	2.972276	938.2
Willey, 1909	38 44 57.189	1,763.5	26 08 21.2	206 08 03.0	Ross	3.203755	1,598.7
	76 13 51.171	1,235.7	87 48 30.9	267 47 59.6	Bald	3.082188	1,208.3
Cedar, 1909	38 44 22.414	691.2	65 14 20.3	245 13 59.9	Ross	2.937674	866.3
	76 13 47.761	1,153.5	128 30 15.1	308 29 41.6	Bald	3.217006	1,648.2
			175 36 29.4	355 36 27.3	Willey	3.031596	1,075.5
Spencer, 1900	38 44 31.807	980.8	78 28 16.3	258 27 39.5	Cedar	3.160948	1,448.6
	76 12 48.991	1,183.2	117 32 04.6	297 31 25.7	Willey	3.228743	1,693.3
Hopkins, 1909	38 45 00.957	29.5	316 38 04.0	136 38 26.0	Spencer	3.092134	1,236.3
	76 13 24.142	583.0	25 38 20.7	205 38 05.9	Cedar	3.120002	1,318.3
			79 54 33.7	259 54 16.8	Willey	2.821479	662.9
Rose, 1909	38 45 10.481	323.2	294 01 19.3	114 01 43.1	Willey	3.002906	1,006.7
	76 14 29.249	706.3	32 15 34.9	212 15 27.4	Bald	2.731938	539.4
Ray, 1909	38 45 20.446	630.5	352 44 37.2	172 44 39.6	Willey	2.859100	722.9
	76 13 54.952	1,326.9	55 37 49.8	235 37 20.9	Bald	3.131047	1,352.2
			69 38 46.9	249 38 25.4	Rose	2.946117	883.3
Gram, 1909	38 45 34.032	1,049.4	295 00 44.9	115 01 08.2	Ray	2.995936	990.7
	76 14 32.133	775.9	354 31 19.3	174 31 21.1	Rose	2.863045	729.5
Grave, 1909	38 45 45.495	1,402.9	333 30 54.4	153 31 04.4	Ray	2.935982	862.9
	76 14 10.890	262.9	22 19 24.3	202 19 12.8	Rose	3.067115	1,167.1
			55 25 45.8	235 25 32.5	Gram	2.794415	622.9
Royal, 1909	38 45 55.939	1,725.0	308 16 18.2	128 16 28.8	Grave	2.715957	519.9
	76 14 27.797	671.1	8 48 34.5	188 48 31.8	Gram	2.834792	683.6
Bengal, 1909	38 45 48.208	1,486.6	250 10 27.7	70 10 44.9	Royal	2.846932	703.0
	76 14 55.188	1,332.4	274 28 10.0	94 28 37.8	Grave	3.030513	1,072.8
			308 08 25.5	128 08 39.9	Gram	2.849892	707.8
Mars, 1909	38 46 05.532	170.6	290 43 13.0	110 43 33.3	Royal	2.922184	836.0
	76 15 00.183	4.4	347 16 43.5	167 16 46.6	Bengal	2.738492	547.6
Eastman, 1909	38 45 54.461	1,679.3	229 14 16.9	49 14 27.2	Mars	2.718400	522.9
	76 15 16.588	400.5	267 46 47.2	87 47 17.8	Royal	3.071451	1,178.8
			290 27 46.2	110 27 59.6	Bengal	2.741515	551.5
Woodill, 1909	38 46 10.065	310.4	282 56 56.8	102 57 12.6	Mars	2.794976	623.7
	76 15 25.361	612.2	336 14 28.8	156 14 34.3	Eastman	2.720758	525.7
Venus, 1909	38 46 26.880	828.9	329 24 55.2	149 25 05.3	Mars	2.883461	764.6
	76 15 16.299	393.5	0 24 00.5	180 24 00.3	Eastman	2.999865	999.7
			22 52 37.7	202 52 32.0	Woodill	2.750319	562.8
Delta, 1909	38 46 28.384	875.3	276 18 27.8	96 18 38.7	Venus	2.625504	422.2
	76 15 33.682	813.1	340 25 25.2	160 25 30.4	Woodill	2.777819	599.5
Neptune, 1909	38 46 33.535	1,034.1	342 57 43.4	162 57 45.0	Venus	2.331702	214.6
	76 15 18.904	456.3	12 09 19.4	192 09 15.3	Woodill	2.869410	740.3
			66 00 09.0	245 59 59.7	Delta	2.591612	390.5
Marion, 1909	38 46 45.050	1,389.2	304 01 28.6	124 01 42.3	Neptune	2.802488	634.6
	76 15 40.692	982.2	341 46 31.2	161 46 35.6	Delta	2.733243	541.1
Willis, 1909	38 46 53.084	1,636.9	344 24 34.3	164 24 38.7	Neptune	2.796469	625.8
	76 15 25.872	624.5	13 54 11.7	193 54 06.8	Delta	2.894664	784.6
			55 17 52.5	235 17 43.2	Marion	2.638609	435.1

Broad Creek tributaries

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Tobe, 1909	38 44 31.878	983.0	194 38 56.6	14 39 01.7	Skinner	2.895181	785.6
	76 15 28.234	681.9	237 08 03.1	57 08 32.5	Bald	3.131308	1,353.0
			291 45 26.0	111 46 08.5	Ross	3.246949	1,765.8
Pine, 1909	38 44 51.389	1,584.6	252 18 28.0	72 18 40.9	Skinner	2.717056	521.3
	76 15 40.572	979.8	333 39 06.5	153 39 14.2	Tobe	2.826960	671.4
Wire, 1909	38 44 27.259	840.5	179 58 53.0	359 58 53.0	Pine	2.871606	744.1
	76 15 40.562	979.6	208 48 40.3	28 48 53.2	Skinner	3.012823	1,030.0
			244 25 59.5	64 26 07.2	Tobe	2.518573	330.0
Fairbanks, 1909	38 44 39.600	1,221.1	229 59 59.9	50 00 11.1	Pine	2.752470	565.5
	76 15 58.512	1,413.1	311 16 32.3	131 16 43.5	Wire	2.761052	576.8
Blanco, 1909	38 44 25.355	781.8	210 58 07.4	30 58 14.2	Fairbanks	2.709518	512.3
	76 16 09.428	227.7	220 57 28.4	40 57 46.4	Pine	3.026554	1,063.1
			265 10 58.4	85 11 16.4	Wire	2.844857	699.6
Caulk, 1909	38 44 37.525	1,157.1	264 27 30.3	84 27 47.4	Fairbanks	2.821403	662.8
	76 16 25.830	623.8	313 26 59.5	133 27 09.8	Blanco	2.736932	545.7
Ned, 1909	38 44 28.262	871.5	233 48 24.2	53 48 34.3	Caulk	2.684625	483.8
	76 16 41.996	1,014.2	251 34 54.6	71 35 21.8	Fairbanks	3.044081	1,106.8
			276 29 52.1	96 30 12.5	Blanco	2.898535	791.7
Luna, 1909	38 45 17.248	531.9	331 07 05.6	151 07 14.7	Skinner	2.863169	729.7
	76 15 34.603	835.5	10 14 48.3	190 14 44.5	Pine	2.908647	810.3
Cabin, 1909	38 45 19.283	594.6	3 01 34.4	183 01 33.4	Skinner	2.846784	702.7
	76 15 18.471	446.0	31 49 12.5	211 48 58.6	Pine	3.005291	1,012.3
			80 50 55.4	260 50 45.3	Luna	2.596110	394.6
Marsh, 1900	38 44 00.716	22.1	110 09 26.1	290 08 38.8	Cedar	3.288305	1,942.2
	76 12 32.267	779.4	157 09 18.8	337 09 08.3	Spencer	3.017177	1,040.3
Marshall, 1909	38 44 20.983	647.0	24 12 43.5	204 12 36.2	Marsh	2.835833	685.2
	76 12 20.632	498.3	91 12 32.6	271 11 38.0	Cedar	3.323201	2,104.8
			115 59 02.8	295 58 45.0	Spencer	2.881900	761.9
Holly, 1909	38 43 52.617	1,622.5	117 01 39.4	297 01 26.7	Marsh	2.740052	549.6
	76 12 11.997	289.8	166 35 23.4	346 35 18.0	Marshall	2.953861	899.2
Clark, 1909	38 44 11.771	363.0	26 12 14.2	206 12 06.7	Holly	2.818413	658.3
	76 11 59.963	1,448.3	66 24 04.9	246 23 44.7	Marsh	2.930162	851.5
			119 38 32.8	299 38 19.9	Marshall	2.759182	574.4
Judge, 1909	38 45 21.968	677.4	325 09 42.6	145 09 54.3	Hopkins	2.897273	789.4
	76 13 42.816	1,033.8	14 47 30.5	194 47 25.3	Willey	2.897768	790.3
Taft, 1909	38 45 19.228	592.9	350 59 54.6	170 59 56.9	Hopkins	2.756209	570.4
	76 13 27.838	672.2	39 39 44.8	219 39 30.2	Willey	2.945848	882.8
			103 08 57.2	283 08 47.8	Judge	2.569824	371.4
Harper, 1909	38 45 45.126	1,391.5	333 23 05.8	153 23 16.2	Taft	2.950964	893.2
	76 13 44.411	1,072.3	356 54 47.2	176 54 48.2	Judge	2.854399	715.2
Thelma, 1909	38 45 42.638	1,314.8	255 46 12.6	75 46 20.5	Harper	2.494406	312.2
	76 13 56.944	1,374.9	315 45 55.6	135 46 13.9	Taft	3.003224	1,007.5
			331 50 35.1	151 50 44.0	Judge	2.859095	722.9
Elmore, 1909	38 46 00.258	8.0	351 38 10.6	171 38 12.4	Harper	2.673589	471.6
	76 13 47.252	1,140.8	23 18 03.2	203 17 57.1	Thelma	2.772012	591.6
Ansley, 1909	38 46 00.185	5.7	26 17 39.9	206 17 34.0	Harper	2.714265	517.6
	76 13 34.908	842.7	44 31 07.8	224 30 54.0	Thelma	2.880136	758.8
			90 26 14.1	270 26 03.4	Elmore	2.474249	298.0
Beverly, 1909	38 46 13.413	413.6	350 51 29.3	170 51 31.0	Ansley	2.616117	413.2
	76 13 37.627	908.4	29 48 22.0	209 48 16.0	Elmore	2.669768	467.5
Samuel, 1909	38 46 14.078	434.1	20 10 12.8	200 10 08.7	Ansley	2.659354	456.4
	76 13 28.389	685.3	46 54 00.5	226 53 48.7	Elmore	2.794962	623.7
			84 44 46.4	264 44 40.6	Beverly	2.350144	223.9

Irish Creek

Principal points						
Irish, 1910	38 41 52.301	1,612.7	5 24 16.3	185 23 57.8	Dot	3.881718	7,615.8
	76 13 38.879	939.5	31 07 20.5	211 07 11.9	Roys	2.809384	644.7
			95 48 39.6	275 47 01.6	Nelson 3	3.580494	3,806.2
			119 23 06.4	299 21 27.6	Annette	3.641537	4,380.6
Creek, 1910	38 41 49.989	1,541.4	63 08 23.8	243 07 59.3	Roys	3.026837	1,063.7
	76 13 13.401	323.8	95 55 33.9	275 53 40.0	Nelson 3	3.646010	4,426.0
			96 36 20.4	276 36 04.5	Irish	2.792257	619.8
Pont, 1910	38 42 14.932	460.4	329 28 11.9	149 28 23.6	Creek	2.950801	892.9
	76 13 32.171	777.3	13 04 41.9	193 04 37.7	Irish	2.855171	716.4

Irish Creek—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Ila, 1910	38 42 12.923	398.5	16 51 33.2	196 51 27.6	Creek	2.868611	738.9
	76 13 04.533	109.5	52 32 38.8	232 32 17.3	Irish	3.019355	1,045.6
			95 18 03.1	275 17 45.8	Pont	2.826525	670.7
Vue, 1910	38 42 27.979	862.7	2 44 53.7	182 44 53.1	Ila	2.667257	464.8
	76 13 03.611	87.2	59 45 37.9	239 45 20.0	Pont	2.902442	798.8
Sticky, 1910	38 42 27.856	858.9	269 43 14.1	89 43 34.6	Vue	2.897374	789.5
	76 13 36.287	876.8	300 57 56.0	120 58 15.9	Ila	2.951738	894.8
			345 59 11.2	165 59 13.8	Pont	2.613560	410.7

Tred Avon River

Principal points							
Oxford, 1900	38 41 35.594	1,097.5	1 55 12.1	181 55 10.4	Bachelor	3.294193	1,968.8
	76 10 36.205	875.0	39 07 14.6	219 06 21.5	Benoni 2	3.513051	3,258.7
			101 34 25.0	281 34 06.0	Tred	2.876157	751.9
Avon, 1900	38 42 21.339	658.0	39 33 01.8	219 32 31.7	Oxford	3.262274	1,829.3
	76 09 48.008	1,160.0	56 28 43.1	236 27 53.9	Tred	3.358069	2,280.7
Mud, 1900	38 41 59.450	1,833.1	58 08 39.2	238 08 08.6	Oxford	3.144136	1,393.6
	76 09 47.226	1,141.2	73 04 08.8	253 03 19.1	Tred	3.302607	2,007.3
			178 23 48.4	358 23 47.9	Avon	2.829445	675.2
Turn, 1900	38 42 15.990	493.0	59 04 45.7	239 04 23.7	Mud	2.996717	992.5
	76 09 11.992	289.8	100 44 04.3	280 43 41.8	Avon	2.947306	885.7
Gold, 1900	38 41 50.755	1,565.0	101 01 19.2	281 00 43.6	Mud	3.147044	1,403.0
	76 08 50.239	1,214.0	124 02 49.4	304 02 13.4	Avon	3.226507	1,684.6
			145 57 42.2	325 57 28.6	Turn	2.972685	939.0
Pas, 1900	38 42 36.125	1,114.0	351 27 10.3	171 27 15.7	Gold	3.150667	1,414.7
	76 08 58.940	1,424.1	26 55 47.6	206 55 39.4	Turn	2.842842	696.4
Trip, 1900	38 42 45.113	1,391.1	12 47 07.3	192 46 57.4	Gold	3.235218	1,718.8
	76 08 34.499	833.5	45 15 11.3	225 14 47.8	Turn	3.105710	1,275.6
			64 51 29.4	244 51 14.1	Pas	2.814460	652.3
Wal, 1900	38 43 09.323	287.5	321 51 55.4	141 52 10.6	Trip	2.977289	949.0
	76 08 58.756	1,419.4	0 14 56.4	180 14 56.3	Pas	3.010166	1,023.7
Max, 1900	38 44 06.646	204.9	8 24 40.7	188 24 31.1	Trip	3.405079	2,541.4
	76 08 19.112	461.7	19 01 18.9	199 00 54.0	Pas	3.470180	2,952.4
			28 27 01.6	208 26 36.8	Wal	3.303266	2,010.3
Bach, 1910	38 40 32.350	997.5	326 28 49.9	146 29 00.2	Boone	2.856773	719.1
	76 10 37.968	917.8	16 59 12.1	196 58 54.9	Choptank River Lighthouse	3.353370	2,282.3
			73 58 52.9	253 58 00.9	Benoni 2	3.321155	2,094.9
Mutton, 1910	38 41 17.694	545.6	322 04 22.7	142 01 50.9	Bach	3.248581	1,772.5
	76 11 23.038	556.8	25 03 19.8	205 02 55.9	Benoni 2	3.338812	2,181.8
First, 1910	38 41 05.452	168.1	17 38 29.5	197 38 21.1	Bach	3.029817	1,071.1
	76 10 24.540	593.1	55 38 16.3	235 37 15.8	Benoni 2	3.452162	2,832.4
			104 57 14.7	284 56 38.1	Mutton	3.165357	1,463.4
Riverview, 1910	38 41 34.041	1,019.7	342 20 39.3	162 20 46.6	First	2.966208	925.1
	76 10 36.149	873.6	66 01 24.2	246 00 54.9	Mutton	3.093513	1,240.3
Tred, 1900	38 41 40.489	1,248.5	285 04 41.6	105 05 00.7	Riverview	2.883186	764.2
	76 11 06.680	161.4	316 41 11.4	136 41 37.8	First	3.171655	1,484.8
			29 21 20.1	209 21 09.9	Mutton	2.906572	806.4
Bellevue, 1910	38 42 09.658	297.8	343 22 02.8	163 22 11.3	Riverview	3.050265	1,146.2
	76 10 49.724	1,201.5	24 29 34.7	204 29 24.1	Tred	2.994920	988.4
Town, 1910	38 41 59.236	1,826.6	56 26 51.4	236 26 21.1	Riverview	3.147824	1,405.5
	76 09 47.682	1,152.2	73 09 36.4	253 08 47.0	Tred	3.299865	1,994.6
			102 06 15.0	282 05 36.2	Bellevue	3.185617	1,533.3
Tar, 1910	38 42 37.057	1,142.7	329 13 14.5	149 13 32.5	Town	3.132706	1,357.4
	76 10 16.427	396.9	43 36 09.3	223 35 48.5	Bellevue	3.066940	1,166.6
Peck, 1910	38 42 21.456	661.6	359 53 00.2	179 53 00.2	Town	2.835793	685.2
	76 09 47.740	1,153.5	76 21 11.2	256 20 32.4	Bellevue	3.187886	1,541.3
			124 45 52.2	304 45 34.3	Tar	2.926204	843.7
Mud, 1910	38 41 58.172	1,793.7	94 00 48.7	274 00 36.6	Town	2.671254	469.1
	76 09 28.318	684.3	146 49 50.5	326 49 38.4	Peck	2.933365	857.8
Tall, 1910	38 42 17.712	546.1	34 16 40.6	214 16 30.0	Mud	2.862833	729.2
	76 09 11.323	273.6	57 02 29.6	237 02 06.8	Town	3.020002	1,047.1
			97 28 37.5	277 28 14.7	Peck	2.948158	887.5
Golds, 1910	38 41 51.803	1,597.3	101 02 09.5	281 01 43.4	Mud	3.011229	1,026.2
	76 08 46.637	1,127.0	143 15 17.3	323 15 01.9	Tall	2.998716	997.0
Borough, 1910	38 42 07.543	232.6	38 07 28.9	218 07 19.0	Golds	2.790253	617.0
	76 08 30.875	746.1	78 14 42.0	258 14 06.0	Mud	3.151625	1,417.8
			107 47 28.8	287 47 03.5	Tall	3.011331	1,026.4

Tred Avon River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Plain, 1910	38 42 38.207	1,178.2	324 23 35.3	144 23 52.8	Borough	3.065555	1,162.9
	76 08 58.895	1,423.0	25 24 56.8	205 24 49.0	Tall	2.844895	699.7
Twin, 1910	38 42 43.531	1,342.3	1 46 15.3	181 46 14.4	Borough	3.045410	1,110.2
	76 08 29.455	711.7	51 48 04.2	231 47 38.0	Tall	3.109682	1,287.3
			77 00 24.5	257 00 06.1	Plain	2.863322	730.0
Weave, 1910	38 43 01.114	34.4	352 37 34.4	172 37 36.2	Twin	2.737764	546.7
	76 08 32.359	781.8	42 13 48.2	222 13 31.6	Plain	2.979513	953.9
Spin, 1910	38 43 09.369	288.9	291 00 33.0	111 00 50.2	Weave	2.851216	709.9
	76 08 59.791	1,444.4	317 23 13.3	137 23 32.3	Twin	3.034458	1,082.6
			358 42 32.1	178 42 32.7	Plain	2.982793	961.2
Martin, 1910	38 43 27.781	856.7	339 29 03.5	159 29 11.5	Weave	2.943473	878.0
	76 08 45.095	1,089.4	32 01 13.5	212 01 04.3	Spin	2.825812	669.6
Hunter, 1910	38 43 25.102	774.0	27 35 10.1	207 35 00.1	Weave	2.921439	834.5
	76 08 16.363	395.3	65 11 17.2	245 10 50.0	Spin	3.062902	1,155.9
			96 47 26.3	276 47 08.3	Martin	2.844463	699.0
Neva, 1910	38 43 48.837	1,505.9	331 34 35.3	151 34 45.6	Hunter	2.920232	832.2
	76 08 32.761	791.3	24 39 03.2	204 38 55.5	Martin	2.853929	714.4
Aye, 1910	38 43 45.970	1,417.5	22 53 15.1	202 53 08.1	Hunter	2.844151	698.5
	76 08 05.118	123.6	59 51 19.9	239 50 54.9	Martin	3.047957	1,116.8
			97 32 41.1	277 32 23.8	Neva	2.828365	673.5
Stretch, 1910	38 44 05.344	164.8	351 50 38.6	171 50 40.8	Aye	2.780692	603.5
	76 08 08.662	209.2	48 49 59.5	228 49 44.4	Neva	2.888314	773.2
Robertson, 1910	38 44 05.626	173.5	271 03 08.4	91 03 20.6	Stretch	2.674379	472.5
	76 08 28.221	681.6	317 21 46.6	137 22 01.1	Aye	2.915860	823.9
			11 57 37.4	191 57 34.6	Neva	2.723610	529.2
Wall, 1910	38 44 01.364	42.1	61 00 35.2	241 00 13.0	Aye	2.990914	979.3
	76 07 29.656	716.3	97 25 34.1	277 25 09.7	Stretch	2.977775	950.1

May, 1910	38 44 12.188	375.8	317 01 27.0	137 01 35.1	Wall	2.659148	456.2
	76 07 42.531	1,027.3	34 00 52.9	214 00 38.8	Aye	2.989143	975.3
			71 30 52.7	251 30 36.4	Stretch	2.823150	665.5
Peebee, 1910	38 44 23.960	738.8	7 48 47.0	187 48 44.5	Wall	2.847141	703.3
	76 07 25.698	620.6	48 14 29.5	228 14 19.0	May	2.736423	545.0
Blossom, 1910	38 44 17.358	535.3	50 07 31.8	230 07 16.5	Wall	2.886061	769.2
	76 07 05.215	126.0	79 58 22.7	259 57 59.4	May	2.961553	915.3
			112 22 13.0	292 22 00.2	Peebee	2.728322	535.0
Camden, 1910	38 44 30.586	943.1	353 28 53.7	173 28 54.9	Blossom	2.613375	410.6
	76 07 07.145	172.6	65 29 22.8	245 29 11.2	Peebee	2.692383	492.5
Neck, 1910	38 44 34.344	1,059.0	293 09 53.8	113 10 00.8	Camden	2.469174	294.6
	76 07 18.358	443.3	328 46 55.9	148 47 04.1	Blossom	2.787077	612.5
			28 58 16.3	208 58 11.7	Peebee	2.563475	366.0
Gash, 1910	38 44 52.639	1,623.2	11 42 59.2	191 42 55.5	Camden	2.841667	694.5
	76 07 01.305	31.5	36 07 50.1	216 07 39.4	Neck	2.844145	698.5
Stab, 1910	38 44 53.906	1,662.2	274 09 07.3	94 09 21.2	Gash	2.731842	539.3
	76 07 23.580	569.4	331 06 08.1	151 06 18.4	Camden	2.914529	821.4
			348 11 31.9	168 11 35.2	Neck	2.789757	616.3
Water, 1910	38 45 10.127	312.3	327 33 31.6	147 33 40.5	Gash	2.805462	638.9
	76 07 15.499	374.3	21 18 50.1	201 18 45.0	Stab	2.729686	536.9
Melon, 1910	38 45 11.548	356.1	4 48 19.1	184 48 17.8	Gash	2.767245	585.1
	76 06 59.276	1,431.3	47 10 27.4	227 10 12.1	Stab	2.903217	800.2
			83 37 04.6	263 36 54.4	Water	2.595697	394.2
Radcliffe, 1910	38 45 32.849	1,012.9	2 45 08.8	182 45 08.0	Melon	2.817960	657.6
	76 06 57.968	1,399.6	31 08 21.7	211 08 10.7	Water	2.913074	818.6
Bateman, 1910	38 45 28.063	865.4	41 10 21.4	221 10 09.9	Melon	2.830281	676.5
	76 06 40.832	985.9	56 32 58.8	236 32 37.1	Water	3.001430	1,003.3
			109 37 57.5	289 37 46.8	Radcliffe	2.642761	439.3
Supplementary point							
Orford, Weather Bureau staff, 1910	38 41 19.742	608.7	48 42 39.0	228 41 39.0	Benoni 2	3.490042	3,090.6
	76 10 25.198	609.0	87 25 04.0	267 24 27.9	Mutton	3.145921	1,399.3
			122 32 46.9	302 32 21.0	Tred	3.075273	1,189.2

Trippe Creek

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Layor, 1910	38 42 32.810	1,011.7	39 04 52.8	219 04 36.4	Borough	3.001592	1,003.7
	76 08 04.690	113.3	73 52 40.0	253 51 58.3	Tall	3.224266	1,676.0
			118 55 15.2	298 54 59.7	Twin	2.834800	683.6
Toe, 1910	38 42 53.207	1,640.7	17 53 14.4	197 53 09.2	Layor	2.820124	660.9
	76 07 56.289	1,359.9	69 34 46.7	249 34 26.0	Twin	2.931995	855.1
Mistle, 1910	38 42 47.284	1,458.0	50 38 19.5	230 38 05.4	Layor	2.847356	703.7
	76 07 42.172	1,018.9	84 13 07.7	264 12 38.1	Twin	3.060030	1,148.2
			118 10 09.6	298 10 00.8	Toe	2.587577	386.9
Trippe, 1910	38 42 58.689	1,809.7	1 42 46.8	181 42 46.5	Mistle	2.546344	351.8
	76 07 41.737	1,008.3	64 19 15.2	244 19 06.1	Toe	2.591179	390.1
Venture, 1910	38 42 53.076	1,636.7	72 42 34.3	252 42 19.4	Mistle	2.778761	600.8
	76 07 18.427	445.2	90 15 20.6	270 14 56.9	Toe	2.961299	914.7
			107 05 11.1	287 04 56.5	Trippe	2.770227	589.2
Crack, 1910	38 42 25.025	771.6	148 26 10.9	328 26 00.0	Mistle	2.906083	805.5
	76 07 24.720	597.3	189 58 09.4	9 58 13.3	Venture	2.943600	878.2
Deux, 1910	38 42 29.583	912.2	72 51 38.0	252 51 26.2	Crack	2.678370	476.8
	76 07 05.862	141.6	121 53 27.2	301 53 04.5	Mistle	3.014198	1,033.2
			157 15 48.4	337 15 40.5	Venture	2.895122	785.5
Plow, 1910	38 42 53.703	1,656.0	14 56 52.5	194 56 47.4	Deux	2.886380	769.8
	76 06 57.644	1,392.7	87 47 45.2	267 47 32.2	Venture	2.701129	502.5
Cam, 1910	38 42 37.860	1,167.5	56 11 29.0	236 11 19.1	Deux	2.661532	458.7
	76 06 50.088	1,210.2	124 25 21.0	304 25 03.2	Venture	2.919089	830.0
			159 30 34.5	339 30 29.8	Plow	2.717265	521.5
Higher, 1910	38 42 56.128	1,730.8	20 32 59.1	200 32 53.6	Cam	2.779295	601.6
	76 06 41.348	998.9	79 14 44.5	259 14 34.3	Plow	2.602874	400.8
All, 1910	38 42 42.027	1,295.9	70 56 06.1	250 55 56.5	Cam	2.594792	393.4
	76 06 34.700	838.4	123 00 15.4	303 00 01.1	Plow	2.820189	661.0
			159 43 38.0	339 43 33.8	Higher	2.666072	463.5

Island Creek

Principal points												
Landeye, 1910	38	39	30.738	947.8	17	39	10.1	197	38	42.6	Castle	3.546200	3,517.2
	76	09	20.429	494.0	83	39	27.0	263	38	21.3	Choptank River Lighthouse	3.407781	2,557.3
					134	11	50.1	314	11	39.3	Enter	2.766559	584.2
Straw, 1910	38	39	51.841	1,598.5	41	38	17.7	221	38	02.7	Landeye	2.939860	870.7
	76	08	56.503	1,366.1	76	17	01.6	256	16	35.8	Enter	3.011395	1,026.6
Berry, 1910	38	39	40.014	1,261.6	61	02	44.5	241	02	29.8	Landeye	2.811666	648.1
	76	08	56.974	1,377.5	95	25	07.1	275	24	41.6	Enter	2.995790	990.4
					181	56	04.5	1	56	04.8	Straw	2.527801	337.1
Jay, 1910	38	39	46.199	1,424.5	77	11	11.6	257	10	53.1	Berry	2.866073	734.6
	76	08	27.346	661.1	103	51	58.6	283	51	40.4	Straw	2.860993	726.1
Delahay, 1910	38	39	58.293	1,797.5	325	41	42.4	145	41	49.0	Jay	2.654588	451.4
	76	08	37.869	915.5	40	45	43.7	220	45	31.8	Berry	2.849703	707.5
					66	10	39.5	246	10	27.9	Straw	2.692383	492.5
Kent, 1910	38	40	02.411	74.3	26	49	56.7	206	49	50.2	Jay	2.748344	560.2
	76	08	16.887	408.3	75	56	51.7	255	56	38.6	Delahay	2.718429	522.9
Mean, 1910	38	39	53.599	1,652.7	64	54	46.1	244	54	33.5	Jay	2.730906	538.2
	76	08	07.187	173.8	101	02	31.2	281	02	12.0	Delahay	2.878387	755.8
					139	12	09.4	319	12	03.3	Kent	2.554983	358.9
Maslin, 1910	38	40	06.347	195.7	37	19	12.2	217	19	04.5	Mean	2.693946	494.2
	76	07	54.793	1,324.6	77	12	03.1	257	11	49.3	Kent	2.738584	547.8
Harry, 1910	38	40	16.553	510.4	326	01	48.8	146	01	54.3	Maslin	2.579153	379.4
	76	08	03.563	86.1	7	03	25.3	187	03	23.1	Mean	2.853185	713.2
					36	27	14.9	216	27	06.6	Kent	2.734099	542.1
Healey, 1910	38	40	16.535	509.9	53	46	36.9	233	46	25.8	Maslin	2.725576	531.6
	76	07	37.054	895.7	90	03	04.6	270	02	48.0	Harry	2.806749	640.8
Charles, 1910	38	40	27.415	845.3	335	40	42.9	155	40	46.8	Healey	2.566039	368.2
	76	07	43.326	1,047.3	23	06	32.1	203	06	25.0	Maslin	2.848990	706.3
					55	36	12.1	235	35	59.5	Harry	2.772964	592.9
Potato, 1910	38	40	30.395	937.2	33	22	38.1	213	22	30.8	Healey	2.709106	511.8
	76	07	25.406	614.1	78	01	21.5	258	01	10.3	Charles	2.646229	442.8
Poco, 1910	38	40	20.006	616.9	74	26	18.6	254	26	08.7	Healey	2.600940	399.0
	76	07	21.155	511.4	113	05	15.1	293	05	01.3	Charles	2.765382	582.6
					162	12	49.9	342	12	47.2	Potato	2.526904	336.4
Ritter, 1910	38	40	34.423	1,061.4	33	13	35.1	213	13	27.6	Poco	2.725450	531.4
	76	07	09.109	220.2	72	30	11.0	252	30	00.8	Potato	2.616022	413.1

Island Creek—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Moke, 1910	38 40 23.468	723.6	74 54 36.1	254 54 25.9	Poco	2.612818	410.0
	76 07 04.778	115.5	113 11 23.5	293 11 10.6	Potato	2.734381	542.5
			162 46 52.4	342 46 49.7	Ritter	2.548576	353.7
Kit, 1910	38 40 32.400	999.1	46 04 11.6	226 04 04.2	Moke	2.598775	397.0
	76 06 52.951	1,280.0	99 04 29.2	279 04 19.1	Ritter	2.597180	395.5
Show, 1910	38 40 40.441	1,247.0	326 31 29.6	146 31 33.8	Kit	2.473111	297.2
	76 06 59.734	1,443.9	13 06 58.3	193 06 55.1	Moke	2.730284	537.4
			50 41 23.5	230 41 17.6	Ritter	2.466729	292.9

La Trappe Creek

Principal points							
Grubin, 1909	38 37 36.725	1,132.4	1 20 53.4	181 20 50.6	Howard	3.668568	4,662.0
	76 07 01.691	40.9	41 20 50.9	221 19 57.2	Toot	3.498985	3,154.9
			105 59 37.2	285 59 24.8	Trappe	2.698928	500.0
Lan, 1910	38 38 02.553	78.7	347 50 04.7	167 50 09.1	Grubin	2.911605	814.7
	76 07 08.789	212.6	25 07 34.5	205 07 26.5	Trappe	2.861844	727.5
Gis, 1910	38 37 55.678	1,716.8	20 48 42.8	200 48 37.1	Grubin	2.796031	625.2
	76 06 52.508	1,270.0	57 33 36.2	237 33 18.1	Trappe	2.920474	832.7
			118 17 47.1	298 17 37.0	Lan	2.650531	447.2
Rice, 1910	38 38 12.385	381.9	14 38 18.5	194 38 15.0	Gis	2.726265	532.4
	76 06 46.945	1,135.4	60 09 16.2	240 09 02.6	Lan	2.784710	609.1
Inez, 1910	38 37 59.997	1,850.0	60 27 30.3	240 27 24.2	Gis	2.431465	270.1
	76 06 42.794	1,035.1	97 08 55.8	277 08 39.6	Lan	2.801858	633.7
			165 16 30.1	345 16 27.5	Rice	2.596558	395.0

Principal points												
Ragged Point 3, 1901	38 31 59.544	1,836.0	56 32 30.7	236 30 16.5	Skid	3.796459	6,258.3
	76 16 43.831	1,061.5	139 54 04.7	319 52 45.8	Hill Point 2	3.677380	4,757.5
Can, 1908	38 30 06.515	200.9	90 36 46.0	270 35 25.0	Skid	3.498487	3,151.3
	76 18 09.264	224.5	210 41 49.6	30 42 42.8	Ragged Point 3	3.607821	4,053.4
Hill, 1908	38 33 59.135	1,823.4	320 25 18.7	140 26 37.1	Ragged Point 3	3.679752	4,783.6
	76 18 49.663	1,202.3	352 13 42.2	172 14 07.4	Can	3.859687	7,239.1
			16 55 21.8	196 54 26.1	Skid	3.872169	7,450.2
Hawk, 1901	38 31 48.743	1,503.0	204 31 18.2	24 32 04.8	Hill Point 2	3.640045	4,365.6
	76 20 05.247	127.1	266 04 38.4	86 06 43.9	Ragged Point 3	3.689301	4,889.9
Hooper Point 3, 1901	38 30 19.622	605.1	122 36 16.9	302 34 26.4	Hawk	3.707739	5,102.0
	76 17 07.806	189.1	159 42 50.9	339 41 47.0	Hill Point 2	3.855180	7,164.4
			190 40 23.6	10 40 38.6	Ragged Point 3	3.496279	3,135.3
Hoop, 1908	38 30 18.636	574.7	160 10 28.6	340 09 25.5	Hill	3.859004	7,227.8
	76 17 08.409	203.8	190 49 52.0	10 50 07.3	Ragged Point 3	3.500774	3,167.9
James, 1908	38 31 44.887	1,384.1	202 53 54.1	22 54 39.0	Hill	3.652600	4,493.7
	76 20 01.887	45.7	264 36 03.5	84 38 06.8	Ragged Point 3	3.682908	4,818.5
			302 18 39.5	122 20 27.5	Hoop	3.696664	4,973.5
Jim, 1908	38 31 58.478	1,803.2	217 14 20.5	37 15 33.3	Hill	3.669671	4,673.8
	76 20 46.489	1,126.0	269 39 31.3	89 42 02.5	Ragged Point 3	3.769190	5,877.5
			291 11 55.8	111 12 23.7	James	3.063992	1,158.8
Pat, 1908	38 31 12.236	377.3	169 21 41.9	349 20 37.9	Sharps Island Lighthouse	4.128427	13,440.9
	76 20 50.830	1,231.2	184 13 02.7	4 13 05.4	Jim	3.155253	1,429.7
			287 01 54.0	107 04 12.6	Hoop	3.751010	5,636.5
			297 21 21.0	117 23 01.6	Can	3.644231	4,407.9
Rede, 1908	38 30 50.918	1,570.0	4 58 49.0	184 58 46.2	Skid	3.127469	1,341.1
	76 20 14.502	351.4	126 45 30.4	306 45 07.8	Pat	3.040785	1,098.5
			282 26 01.0	102 27 56.9	Hoop	3.664395	4,617.4
Woolford, 1901	38 31 25.974	800.0	58 38 41.3	238 37 15.2	Hooper Point 3	3.594450	3,930.5
	76 14 49.279	1,193.8	110 28 05.5	290 26 54.2	Ragged Point 3	3.471512	2,961.5
Tobacco Stick, 1901	38 31 34.878	1,075.5	100 55 49.5	280 54 08.1	Ragged Point 3	3.603823	4,016.3
	76 14 01.020	24.7	135 41 24.5	315 40 49.3	Hudson	3.292111	1,959.3
Cedar Point, 1901	38 33 04.78	147.4	230 33 36	50 33 57	Lee	3.009953	1,023.2
	76 13 18.12	438.8	7 15 40	187 15 35	McKeil	3.146893	1,402.5
			62 47 48	242 47 22	Greenwell	3.070841	1,177.2

Little Choptank River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
MeKeil, 1901	38 32 19.66	606.2	31 58 15	211 57 53	Tobacco Stick	3.211553	1,627.6
	76 13 25.44	616.1	134 26 42	314 26 20	Greenwell	3.085734	1,218.2
Phillips, 1901	38 33 48.50	1,495.5	321 15 26	141 15 40	Lee	2.952047	895.5
	76 13 08.62	208.7	9 40 46	189 40 41	Cedar Point	3.136045	1,367.9
Skid, 1898	38 30 07.588	234.0	16 42 16.4	196 40 14.8	Calvert	4.218090	16,523.0
	76 20 19.307	467.8	52 10 15.4	232 06 19.0	Wilson 2	4.067317	11,676.6
			63 06 12.0	243 01 41.9	Flag Pond	4.072090	11,805.7
			124 48 59.0	304 42 23.2	Hard	4.272327	18,720.9
			196 53 03.9	16 53 59.3	Hill Point 2	3.869844	7,410.4
Brannock, 1910	38 34 53.205	1,640.6	117 17 27.0	297 14 01.4	Jere	3.952946	8,973.2
	76 16 21.545	521.4	125 26 19.0	305 22 27.0	Sharps Island Lighthouse	4.042949	11,039.5
			163 53 19.6	343 52 37.7	Chef	3.767676	5,857.0
Robins, 1910	38 34 00.217	6.7	321 04 29.2	141 05 46.5	Ragged Point 3	3.679622	4,782.1
	76 18 47.882	1,159.2	23 14 53.0	203 14 07.0	James	3.657188	4,541.4
			142 20 23.9	322 18 29.6	Jere	3.860787	7,257.5
			145 48 57.5	325 46 36.8	Sharps Island Lighthouse	3.987178	9,709.1
			194 46 08.1	14 46 57.5	Chef	3.875583	7,509.0
Veith, 1910	38 30 15.412	475.2	122 12 26.6	302 10 34.0	James	3.714210	5,178.6
	76 17 00.990	24.0	159 31 44.5	339 30 37.9	Robins	3.869199	7,399.4
			187 22 31.3	7 22 42.0	Ragged Point 3	3.510229	3,237.6
Wool, 1908	38 31 25.783	795.0	55 49 21.2	235 47 59.1	Veith	3.586755	3,861.5
	76 14 49.147	1,190.6	110 33 10.3	290 31 58.9	Ragged Point 3	3.472252	2,966.6
Hudson, 1901	38 32 20.343	627.3	353 06 55.4	173 07 00.6	Wool	3.229057	1,694.6
	76 14 57.532	1,393.3	37 50 06.8	217 48 49.9	Veith	3.688141	4,876.9
			76 01 14.3	256 00 08.1	Ragged Point 3	3.423771	2,653.2
Mac, 1910	38 32 17.035	525.3	52 22 32.6	232 21 39.9	Wool	3.413006	2,588.2
	76 13 24.521	593.9	92 36 02.9	272 35 04.9	Hudson	3.353137	2,255.0
Greenwell, 1910	38 32 47.329	1,459.4	316 16 22.0	136 16 45.0	Mac	3.111447	1,292.5
	76 14 01.411	34.2	24 41 52.0	204 41 22.3	Wool	3.442089	2,767.5
			58 31 44.1	238 31 09.1	Hudson	3.202382	1,593.6

Ross, 1910	38 33 04.793	147.8	5 06 16.2	185 06 12.8	Mac	3.169805	1,478.4
	76 13 19.090	462.3	62 17 04.3	242 16 37.9	Greenwell	3.063592	1,157.7
Town, 1910	38 32 50.332	1,552.0	37 09 24.7	217 09 01.7	Mac	3.109963	1,288.1
	76 12 52.396	1,268.8	86 50 08.4	266 49 25.4	Greenwell	3.223713	1,673.8
			124 36 07.8	304 35 51.2	Ross	2.895025	785.3
Lee, 1901	38 33 25.854	797.2	8 41 41.4	188 41 37.1	Town	3.044558	1,108.0
	76 12 45.479	1,101.2	51 24 54.0	231 24 33.1	Ross	3.017525	1,041.2
David, 1901	38 33 11.789	363.5	47 24 11.3	227 23 52.8	Town	2.990106	977.5
	76 12 22.682	549.2	81 01 49.7	261 01 14.6	Ross	3.140759	1,382.8
			128 09 29.8	308 09 15.6	Lee	2.846326	702.0
Phil, 1910	38 33 49.720	1,533.1	326 18 26.2	146 18 38.8	Lee	2.946677	884.5
	76 13 05.743	139.0	13 07 56.0	193 07 47.7	Ross	3.153051	1,422.5
Dupont, 1910	38 34 00.948	29.2	12 28 34.4	192 28 31.5	Cherry Island water tank	2.718760	523.3
	76 12 39.106	946.8	61 46 23.4	241 46 06.8	Phil	2.864470	731.9
Beckwith, 1910	38 33 59.742	1,842.1	33 16 17.8	213 16 09.1	Lee	3.096827	1,249.8
	76 12 17.163	415.5	53 40 29.4	233 40 12.8	Cherry Island water tank	2.902957	799.8
			94 00 18.7	274 00 05.0	Dupont	2.726361	532.6
Solomon, 1901	38 33 40.173	1,238.7	44 30 58.5	224 30 36.3	David	3.088960	1,227.3
	76 11 47.146	1,141.5	72 38 45.7	252 38 09.3	Lee	3.170193	1,479.8
Layton, 1901	38 33 16.710	515.3	81 00 28.9	261 00 04.2	David	2.986993	970.5
	76 11 43.095	1,043.5	100 34 42.3	280 34 03.4	Lee	3.186562	1,536.6
			172 16 50.1	352 16 47.6	Solomon	2.863364	730.1
Adam, 1901	38 33 25.840	796.8	69 05 55.7	249 05 36.7	Layton	2.897087	789.0
	76 11 12.654	306.4	117 53 24.2	297 53 02.7	Solomon	2.975359	944.8
Seth, 1901	38 33 40.228	1,240.4	21 04 01.5	201 03 57.1	Adam	2.677075	475.4
	76 11 05.596	135.5	51 23 22.9	231 22 59.5	Layton	3.065207	1,162.0
			89 54 22.1	269 53 56.2	Solomon	3.002590	1,006.0
Cain, 1901	38 33 33.655	1,037.8	71 35 25.7	251 35 07.1	Adam	2.882495	762.9
	76 10 42.756	1,035.2	110 07 46.7	290 07 32.5	Seth	2.770080	589.0
Abel, 1901	38 33 47.859	1,475.7	1 14 16.4	181 14 16.1	Cain	2.641541	438.1
	76 10 42.366	1,025.7	47 12 29.9	227 12 11.0	Adam	2.999727	999.4
			67 17 58.3	247 17 43.8	Seth	2.785095	609.7
Noah, 1901	38 34 01.555	47.9	335 01 59.5	155 02 04.6	Abel	2.668242	465.8
	76 10 50.487	1,222.3	29 05 08.8	209 04 59.4	Seth	2.876509	752.5
Van Duyne, 1901	38 34 03.936	121.4	24 22 45.3	204 22 39.5	Abel	2.735808	544.3
	76 10 33.086	801.0	47 07 00.3	227 06 40.0	Seth	3.031083	1,074.2
			80 06 54.5	260 06 43.6	Noah	2.631052	427.6

Little Choptank River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Abraham, 1901	38 34 20.088	619.4	332 39 49.8	152 39 56.5	Van Duyne	2.748680	560.6
	76 10 43.720	1,058.4	15 59 44.6	195 59 40.4	Noah	2.774126	594.5
Isaac, 1901	38 34 17.577	542.0	10 38 31.5	190 38 29.5	Van Duyne	2.631414	428.0
	76 10 29.821	721.9	45 21 44.5	225 21 31.7	Noah	2.841018	693.5
			102 57 33.4	282 57 24.7	Abraham	2.538144	345.3
Lot, 1901	38 34 30.605	943.7	18 33 08.5	198 33 05.0	Isaac	2.627088	423.7
	76 10 24.252	587.1	55 28 08.9	235 27 56.7	Abraham	2.757447	572.1
Dan, 1901	38 34 27.918	860.9	49 41 38.1	229 41 28.4	Isaac	2.692777	492.9
	76 10 14.293	346.0	108 57 58.8	288 57 52.6	Lot	2.406386	254.9
Yellow, 1901	38 34 42.925	1,323.6	4 28 39.0	184 28 38.1	Dan	2.666663	464.2
	76 10 12.796	309.7	36 07 41.2	216 07 34.1	Lot	2.672406	470.3
Radcliffe, 1901	38 34 30.821	950.4	74 52 09.9	254 52 01.4	Dan	2.535119	342.9
	76 10 00.620	15.0	141 42 15.8	321 42 08.2	Yellow	2.677220	475.6
Supplementary points							
House, northeast of Pov, north chimney, 1908	38 30 25.207	777.2	79 42 45.4	259 42 32.5	Pov	2.706852	509.2
	76 15 28.827	698.4	85 12 30.4	265 11 28.4	Hoop	3.384060	2,421.4
			148 00 56.5	328 00 09.8	Ragged Point 3	3.535256	3,429.7
Madison spire, 1901	38 30 29.87	921.0	143 30 20.2	323 29 15.4	Hudson	3.627119	4,237.2
	76 13 13.47	326.4	150 07 00.6	330 06 31.0	Tobacco Stick	3.363946	2,311.6
Cherry Island water tank, flagstaff, 1910	38 33 44.377	1,368.4	4 07 49.8	184 07 48.7	Lee	2.757883	572.6
	76 12 43.776	1,059.9	35 00 58.3	215 00 36.3	Ross	3.173261	1,490.3
			107 12 48.5	287 12 34.8	Phil	2.745683	556.8

Hudson Creek

Principal points														
Louise, 1910	38	32	42.415	1,307.9	295	03	02.4	115	03	45.5	Mac	3.266668	1,847.9
	76	14	33.641	814.7	9	01	55.7	189	01	46.0	Wool	3.378868	2,392.6
					40	22	16.0	220	22	01.1	Hudson	2.950992	893.3
Jenifer, 1910	38	32	58.509	1,804.1	308	59	11.4	128	59	27.2	Louise	2.896933	788.7
	76	14	58.957	1,427.7	358	19	11.6	178	19	12.5	Hudson	3.070902	1,177.3
Carrie, 1910	38	32	56.770	1,750.5	331	03	39.0	151	03	45.3	Louise	2.703952	505.8
	76	14	43.747	1,059.3	16	33	15.2	196	33	06.6	Hudson	3.068841	1,171.8
					98	17	07.7	278	16	58.2	Jenifer	2.570791	372.2
Bayly, 1910	38	33	06.969	214.9	2	38	16.6	182	38	16.2	Carrie	2.498068	314.8
	76	14	43.148	1,044.8	55	43	45.9	235	43	36.0	Jenifer	2.665808	463.2
Henry, 1910	38	33	06.698	206.5	268	45	54.8	88	46	04.8	Bayly	2.588571	387.8
	76	14	59.158	1,432.6	309	21	42.6	129	21	52.2	Carrie	2.683677	482.7
					358	53	40.9	178	53	41.0	Jenifer	2.402368	252.6
Mitchell, 1910	38	33	21.851	673.8	321	43	16.5	141	43	25.8	Bayly	2.766820	584.5
	76	14	58.103	1,406.9	3	07	51.2	183	07	50.5	Henry	2.670178	467.9
Back, 1910	38	33	25.738	793.6	358	20	15.5	178	20	15.9	Bayly	2.762663	579.0
	76	14	43.842	1,061.5	32	16	56.9	212	16	47.3	Henry	2.841618	694.4
					70	51	33.8	250	51	24.9	Mitchell	2.562901	365.5

Fishing Creek

Principal points														
Thornapple, 1901	38	32	46.96	1,448.0	41	29	03	221	28	44	McKeil	3.050715	1,123.9
	76	12	54.70	1,324.7	134	05	04	314	04	49	Cedar Point	2.897351	789.5
					190	32	56	10	33	02	Lee	3.086290	1,219.8
West Fishing Creek, 1901	38	32	20.14	621.0	88	25	14	268	25	00	McKeil	2.731572	539.0
	76	13	03.20	77.5	193	57	50	13	57	55	Thornapple	2.930593	852.3
Pond, 1901	38	32	10.72	330.5	107	36	57	287	36	34	West Fishing Creek	2.982004	959.4
	76	12	25.44	616.1	147	37	04	327	36	45	Thornapple	3.121630	1,323.2
					314	06	01	134	06	19	Windmill Point	2.994980	988.5
Brooks, 1901	38	31	52.96	1,633.0	160	34	59	340	34	52	West Fishing Creek	2.948645	888.5
	76	12	50.99	1,235.0	228	29	43	48	29	59	Pond	2.917188	826.4
					276	01	42	96	02	16	Windmill Point	3.125872	1,336.2

Fishing Creek—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Laney, 1910	38 32 20.710	638.6	77 07 51.6	257 07 38.9	Mac	2.706367	508.6
	76 13 04.049	98.1	120 34 55.9	300 34 20.2	Greenwell	3.207779	1,613.5
			197 10 05.8	17 10 13.1	Town	2.980448	956.0
Swep, 1910	38 32 40.917	1,261.7	50 22 11.6	230 21 52.2	Laney	2.989821	976.8
	76 12 32.985	798.8	121 41 54.4	301 41 42.3	Town	2.742319	552.5
Hugh, 1910	38 32 14.702	453.3	102 00 47.8	282 00 25.4	Laney	2.949500	890.2
	76 12 28.097	680.5	151 49 33.6	331 49 18.5	Town	3.095625	1,246.3
			171 40 05.3	351 40 02.3	Swep	2.912198	817.0
Eleanor, 1910	38 31 54.276	1,673.6	165 27 49.9	345 27 44.5	Laney	2.925326	842.0
	76 12 55.323	1,340.0	226 18 46.7	46 19 03.7	Hugh	2.959939	911.9
Doctor, 1910	38 31 49.717	1,533.0	98 56 24.5	278 56 01.5	Eleanor	2.956581	904.9
	76 12 18.419	446.1	130 51 12.7	310 50 44.3	Laney	3.164665	1,461.0
			163 04 39.8	343 04 33.8	Hugh	2.905939	805.3
Etta, 1910	38 32 02.536	78.2	53 47 45.6	233 47 31.7	Doctor	2.825544	669.2
	76 11 56.126	1,359.4	115 51 00.0	295 50 40.1	Hugh	2.934705	860.4
Mary, 1910	38 31 48.466	1,494.5	93 59 47.0	273 59 32.8	Doctor	2.743278	553.7
	76 11 55.615	1,347.1	135 48 03.2	315 47 43.0	Hugh	3.052479	1,128.4
			178 21 54.9	358 21 54.6	Etta	2.637515	434.0
Tom, 1910	38 31 32.538	1,003.3	136 27 51.2	316 27 33.3	Doctor	2.863739	730.7
	76 11 57.640	1,396.2	185 42 10.4	5 42 11.7	Mary	2.693352	493.6
Brooks, 1910	38 31 32.256	994.6	182 27 59.5	2 28 00.1	Doctor	2.731494	538.9
	76 12 19.376	469.4	229 01 39.3	49 01 54.1	Mary	2.882123	762.3
			269 03 12.5	89 03 26.0	Tom	2.721489	526.6
Austin, 1910	38 31 34.539	1,065.0	86 16 46.8	266 16 22.4	Tom	2.977779	950.1
	76 11 18.499	448.1	115 32 04.6	295 31 41.5	Mary	2.998404	996.3
Neil, 1901	38 31 46.135	1,422.5	25 10 35.3	205 10 31.0	Austin	2.596674	395.1
	76 11 11.561	280.0	69 25 01.2	249 24 32.5	Tom	3.076385	1,192.3
			93 51 27.9	273 51 00.5	Mary	3.029179	1,069.5
Windmill Point, 1901	38 31 48.412	1,492.8	262 22 19.1	82 22 19.4	Mary	1.100198	12.595
	76 11 56.131	1,359.6	273 43 02.3	93 43 30.0	Neil	3.034164	1,081.8
Jones, 1901	38 31 29.054	895.9	199 46 33.3	19 46 38.8	Windmill Point	2.802308	634.3
	76 12 04.991	120.9	247 51 04.4	67 51 37.7	Neil	3.145288	1,397.3
Deepwater, 1901	38 31 33.823	1,042.9	82 22 55.6	262 22 27.4	Jones	3.044808	1,108.7
	76 11 19.626	475.4	116 58 05.4	296 57 42.7	Windmill Point	2.996547	992.1
			207 13 45.1	27 13 50.1	Neil	2.630387	427.0
Orchard, 1901	38 31 33.572	1,035.2	91 06 52.1	271 06 41.9	Deepwater	2.600561	398.6
	76 11 03.173	76.9	152 19 28.6	332 19 23.4	Neil	2.640913	437.4
Kirby, 1901	38 31 47.920	1,477.6	44 21 15.6	224 21 04.5	Orchard	2.791484	618.7
	76 10 45.317	1,097.7	62 23 32.6	242 23 11.4	Deepwater	2.972139	937.9
			85 03 20.2	265 03 03.9	Neil	2.804861	638.1
Church Creek 1, east, 1901	38 31 25.934	799.6	109 08 17.2	289 07 59.8	Orchard	2.856427	718.5
	76 10 35.151	851.5	160 02 16.0	340 02 09.7	Kirby	2.858099	721.3
Church Creek 1, west, 1901	38 31 17.461	538.4	137 26 52.2	317 26 40.5	Orchard	2.828923	674.4
	76 10 44.345	1,074.3	178 33 50.8	358 33 50.2	Kirby	2.972896	939.5
			220 26 43.7	40 26 49.4	Church Creek 1, east	2.535697	343.3
Paul, 1901	38 31 57.439	1,771.1	30 39 59.3	210 39 44.5	Church Creek 1, east	3.052838	1,129.4
	76 10 11.372	275.4	70 21 24.1	250 21 03.0	Kirby	2.941028	873.0
Jackson, 1901	38 31 48.479	1,494.8	46 31 35.2	226 31 16.2	Church Creek 1, east	3.004469	1,010.3
	76 10 04.883	118.3	88 59 42.8	268 59 17.6	Kirby	2.991017	979.5
			150 22 08.1	330 22 04.0	Paul	2.502227	317.9
Peach, 1901	38 31 56.998	1,757.5	69 12 45.9	249 12 28.1	Jackson	2.869302	740.1
	76 09 36.317	879.7	90 55 11.7	270 54 49.8	Paul	2.928998	849.2
Chimney, 1901	38 32 03.500	107.9	39 14 37.6	219 14 33.4	Peach	2.413060	258.9
	76 09 29.556	715.8	61 34 36.0	241 34 14.0	Jackson	2.988120	973.0
			79 32 55.7	259 32 29.6	Paul	3.012800	1,029.9
Hedge, 1901	38 31 59.516	1,835.2	84 25 14.2	264 24 53.8	Peach	2.901934	797.9
	76 09 03.532	85.5	101 01 55.8	281 01 39.6	Chimney	2.807661	642.2
Walnut, 1901	38 31 47.571	1,466.9	110 55 24.6	290 55 05.0	Peach	2.910678	814.1
	76 09 04.922	119.2	129 27 48.2	309 27 32.8	Chimney	2.888080	772.8
			185 13 26.8	5 13 27.6	Hedge	2.568020	369.8
Bluff, 1901	38 31 55.792	1,720.3	55 33 10.3	235 33 00.8	Walnut	2.651384	448.1
	76 08 49.666	1,202.9	108 52 38.3	288 52 29.6	Hedge	2.550145	354.9

Church Creek

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Church Creek 2, east, 1901	38 31 06.540	201.7	137 30 35.9	317 30 28.0	Church Creek 1, west	2.659584	456.7
	76 10 31.612	765.8	171 50 32.5	351 50 30.3	Church Creek 1, east	2.781116	604.1
Church Creek 2, west, 1901	38 31 07.220	222.6	192 48 11.4	12 48 13.3	Church Creek 1, west	2.510277	323.8
	76 10 47.307	1,146.0	273 09 23.1	93 09 32.9	Church Creek 2, east	2.580695	380.8
Church Creek 3, east, 1901	38 30 51.282	1,581.2	147 42 35.0	327 42 27.0	Church Creek 2, west	2.764437	581.3
	76 10 34.487	835.5	188 25 19.7	8 25 21.5	Church Creek 2, east	2.677234	475.6
Church Creek 3, west, 1901	38 30 40.436	1,246.8	170 24 28.3	350 24 24.7	Church Creek 2, west	2.923021	837.6
	76 10 41.546	1,006.6	207 04 58.1	27 05 02.5	Church Creek 3, east	2.574733	375.6
Church Creek 4, east, 1901	38 30 43.350	1,336.7	61 53 55.3	241 53 51.0	Church Creek 3, west	2.280491	190.8
	76 10 34.601	838.3	180 38 29.5	0 38 29.6	Church Creek 3, east	2.388417	244.6
Church Creek 4, west, 1901	38 30 27.417	845.4	156 24 17.9	336 24 13.4	Church Creek 3, west	2.641547	438.1
	76 10 34.309	831.3	179 10 30.6	359 10 30.4	Church Creek 4, east	2.691395	491.4

Slaughter Creek

Principal points							
Poverty, 1901	38 30 21.054	649.2	88 38 46.8	268 37 59.0	Hooper Point 3	3.269423	1,859.6
	76 15 51.079	1,237.6	157 10 58.0	337 10 25.2	Ragged Point 3	3.517830	3,294.8
			199 25 05.3	19 25 38.4	Hudson	3.591075	3,900.1
Holland, 1901	38 29 47.283	1,458.0	154 26 16.0	334 26 03.7	Hooper Point 3	3.043512	1,105.4
	76 16 48.121	1,166.1	233 00 07.0	53 00 42.5	Poverty	3.238188	1,730.6
Parsons, 1901	38 29 41.633	1,283.8	109 47 17.4	289 47 05.0	Holland	2.711526	514.7
	76 16 28.137	681.8	140 37 51.6	320 37 27.0	Hooper Point 3	3.180501	1,515.3
			216 27 07.3	36 27 30.4	Poverty	3.179339	1,511.3
McManus, 1901	38 29 23.411	721.9	173 50 12.8	353 50 10.8	Holland	2.869443	740.4
	76 16 44.841	1,086.7	215 46 15.7	35 46 26.1	Parsons	2.840421	692.5
Bosley, 1901	38 29 25.437	784.3	208 21 13.8	28 21 23.1	Holland	2.883920	765.5
	76 17 03.122	75.6	239 29 53.9	59 30 15.6	Parsons	2.992991	984.0
			278 01 24.3	98 01 35.7	McManus	2.650726	447.4
Shellbank, 1901	38 29 02.662	82.1	198 23 09.4	18 23 15.4	Bosley	2.869237	740.0
	76 17 12.753	309.1	226 35 44.6	46 36 02.0	McManus	2.968995	931.1
Vickers, 1901	38 28 57.993	1,788.2	122 [illegible] 45.9	302 05 40.0	Shellbank	2.432948	271.0
	76 17 03.280	79.5	180 15 41.3	0 15 41.5	Bosley	2.927484	846.2
			209 41 32.8	29 41 44.3	McManus	2.955316	902.2
Pattison, 1901	38 28 33.571	1,035.1	179 30 42.1	359 30 41.9	Shellbank	2.952813	897.0
	76 17 12.437	301.5	196 25 15.3	16 25 21.0	Vickers	2.894899	785.1
Stapleford, 1901	38 28 34.567	1,065.9	209 13 29.7	29 13 42.1	Shellbank	2.996803	992.7
	76 17 32.749	793.9	224 40 36.5	44 40 54.8	Vickers	3.006823	1,015.8
			273 34 05.2	93 34 17.8	Pattison	2.693124	493.3
West End, 1901	38 28 12.733	392.6	189 13 21.2	9 13 24.0	Stapleford	2.833823	682.1
	76 17 37.259	903.3	223 07 06.0	43 07 21.4	Pattison	2.944617	880.3
East End, 1901	38 28 10.103	311.5	103 00 43.0	283 00 34.0	West End	2.556613	360.3
	76 17 22.780	552.2	162 14 11.8	342 14 05.7	Stapleford	2.898789	792.2
			199 06 28.7	19 06 35.1	Pattison	2.884133	765.8
No. 1, east, 1901	38 27 45.786	1,411.8	146 47 12.5	326 46 58.5	West End	2.997026	993.2
	76 17 14.818	359.2	165 33 52.5	345 33 47.5	East End	2.888880	774.2
No. 1, west, 1901	38 27 39.048	1,204.0	168 01 55.6	348 01 49.9	West End	3.026027	1,061.8
	76 17 28.177	683.2	187 46 49.5	7 46 52.8	East End	2.985189	966.5
			237 19 07.2	57 19 15.5	No. 1, east	2.585233	384.8
No. 2, east, 1901	38 27 24.858	766.5	113 20 56.3	293 20 30.3	No. 1, west	3.043026	1,104.1
	76 16 46.365	1,124.4	133 05 31.6	313 05 13.9	No. 1, east	2.975260	944.6
No. 2, west, 1901	38 27 15.949	491.8	128 59 47.1	308 59 24.5	No. 1, west	3.053824	1,131.9
	76 16 51.892	1,258.3	148 51 45.0	328 51 30.8	No. 1, east	3.031369	1,074.9
			206 00 12.9	26 00 16.3	No. 2, east	2.485224	305.6
No. 3, west, 1901	38 27 08.713	268.6	112 57 09.5	292 56 56.0	No. 2, west	2.757509	572.1
	76 16 30.165	731.5	141 43 23.5	321 43 13.4	No. 2, east	2.802188	634.1
No. 3, east, 1901	38 27 12.938	398.9	22 33 04.1	202 33 02.7	No. 3, west	2.149147	141.0
	76 16 27.934	677.4	99 04 48.6	279 04 33.6	No. 2, west	2.769614	588.3
			129 26 00.6	309 25 49.1	No. 2, east	2.762412	578.6
Pov, 1908	38 30 22.252	686.1	83 03 50.6	263 03 06.1	Veith	3.241785	1,745.0
	76 15 49.502	1,199.4	156 19 00.3	336 18 26.5	Ragged Point 3	3.515337	3,275.9
			199 04 03.3	19 04 35.7	Hudson	3.585774	3,852.8
Torrey, 1910	38 29 37.887	1,168.2	139 44 23.5	319 43 58.3	Veith	3.180785	1,516.3
	76 16 20.548	497.9	208 48 21.0	28 48 40.3	Pov	3.193454	1,561.2

Slaughter Creek—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Moore, 1910	38 29 44.429	1,369.9	170 39 01.4	350 38 57.3	Veith	2.985972	968.2
	76 16 54.498	1,320.7	233 28 28.4	53 29 08.8	Pov	3.292204	1,959.8
			283 46 20.2	103 46 41.3	Torrey	2.927935	847.1
Maryland, 1910	38 29 03.242	100.0	162 58 44.4	342 58 34.4	Moore	3.123248	1,328.2
	76 16 38.455	932.0	202 06 29.2	22 06 40.3	Torrey	3.061848	1,153.0
Whitewash, 1910	38 29 15.302	471.8	203 17 05.3	23 17 15.2	Moore	2.990228	977.7
	76 17 10.447	253.2	240 03 35.2	60 04 06.2	Torrey	3.144728	1,395.5
			295 37 08.4	115 37 28.3	Maryland	2.934473	859.9
Noblee, 1910	38 28 30.828	950.6	171 15 47.4	351 15 42.0	Whitewash	3.142208	1,387.4
	76 17 01.752	42.5	209 27 51.6	29 28 06.1	Maryland	3.059921	1,147.9
Harrington, 1910	38 28 33.917	1,045.8	202 52 41.9	22 52 55.7	Whitewash	3.141462	1,385.0
	76 17 32.665	791.8	235 27 42.9	55 28 16.6	Maryland	3.202768	1,595.0
			277 14 30.2	97 14 49.4	Noblee	2.878158	755.4
Finish, 1910	38 27 57.692	1,778.9	156 49 09.3	336 48 57.0	Harrington	3.084600	1,215.1
	76 17 12.934	313.5	194 51 27.1	14 51 34.0	Noblee	3.024095	1,057.0
Taylor, 1910	38 27 56.881	1,753.9	182 36 57.3	2 36 58.6	Harrington	3.058113	1,143.2
	76 17 34.818	844.1	217 26 29.3	37 26 49.8	Noblee	3.120044	1,318.4
			267 17 50.6	87 18 04.2	Finish	2.725201	531.1

Chesapeake Bay, Patuxent River to Smith Point

Principal points							
Toms Point 2, 1897	38 15 44.615	1,375.6	42 00 52.2	221 55 46.6	Point No Point	4.254702	17,976.4
	76 11 08.782	213.5	120 48 55.0	300 40 42.4	Calvert	4.324108	21,091.5
Holland Island 2, 1898	38 06 40.902	1,261.1	99 37 27.0	279 28 55.0	Point No Point	4.311371	20,481.9
	76 05 33.616	818.9	154 04 58.7	334 01 31.5	Toms Point 2	4.270520	18,643.2
Holland Island Bar Lighthouse, 1897	38 04 07.268	224.1	112 18 06.5	292 09 42.3	Point No Point	4.332515	21,503.8
	76 05 45.870	1,118.2	159 56 42.3	339 53 22.8	Toms Point 2	4.359701	22,892.9
			183 36 22.7	3 36 30.4	Holland Island 2	3.676352	4,746.3
Point Lookout Lighthouse, 1846	38 02 19.482	600.7	179 40 42.9	359 40 41.3	Point No Point	4.059167	11,459.5
	76 19 20.238	493.6	248 07 30.9	68 16 00.7	Holland Island 2	4.336463	21,700.2
			260 25 41.7	80 34 03.5	Holland Island Bar Lighthouse	4.303866	20,131.0
Smith Point Lighthouse (Va.), 1898	37 52 47.473	1,463.5	145 28 26.1	325 23 19.9	Point Lookout Lighthouse	4.330760	21,417.1
	76 11 02.453	59.9	200 12 36.0	20 15 50.8	Holland Island Bar Lighthouse	4.349045	22,338.0
Shanks Hammock 2 (Va.), 1898	37 55 21.407	660.0	69 16 00.5	249 10 45.9	Smith Point Lighthouse	4.126425	13,379.0
	76 02 30.443	743.5	163 37 39.8	343 35 39.5	Holland Island Bar Lighthouse	4.227882	16,899.8
			247 14 00.2	67 18 33.0	Janes Island Lighthouse	4.069906	11,746.4
Solomon Lump Lighthouse, 1898	38 02 52.845	1,629.4	317 48 12.6	137 51 47.1	Janes Island Lighthouse	4.102274	12,655.4
	76 00 54.953	1,339.8	87 54 31.7	267 43 10.6	Point Lookout Lighthouse	4.430898	26,971.1
			107 57 11.1	287 54 11.8	Holland Island Bar Lighthouse	3.872407	7,454.3
Briery Island, 1898	38 05 17.702	545.8	58 03 27	238 01 59	Holland Island Bar Lighthouse	3.613117	4,103.1
	76 03 23.030	561.2	128 53 20	308 51 59	Holland Island 2	3.611414	4,087.1
			170 05 52	350 05 30	Spring 2	3.697737	4,985.8
Hooper Island Lighthouse, 1902	38 15 22.512	694.1	26 46 15.8	206 43 33.3	Point No Point	4.152390	14,203.3
	76 15 00.160	3.9	114 55 25.8	294 51 02.8	Cedar Point Lighthouse	4.055938	11,374.6
			263 04 21.0	83 06 44.3	Toms Point 2	3.753316	5,666.5
			280 40 02.0	100 42 54.4	Richland	3.838301	6,891.3
			285 53 01.0	105 57 07.2	Rip	4.001812	10,041.8
			303 02 21.3	123 08 09.8	Pone	4.213292	16,341.5
Bluff, 1898	38 17 14.339	442.1	332 24 55.8	152 25 32.6	Toms Point 2	3.494310	3,121.1
	76 12 08.230	200.0	108 48 40.8	288 41 08.0	Up	4.272641	18,734.5
			115 43 26.7	295 36 20.9	Calvert	4.267317	18,506.2
Jip, 1898	38 18 45.411	1,400.2	314 34 36.2	134 37 00.4	Toms Point 2	3.899800	7,939.6
	76 15 01.409	34.2	103 24 28.1	283 18 42.7	Up	4.143240	13,907.2
			112 42 20.8	292 37 02.3	Calvert	4.130814	13,514.9
Richland, 1898	38 14 41.049	1,265.7	49 09 16.0	229 03 41.4	Point No Point	4.241095	17,421.9
	76 10 21.666	526.9	123 32 07.0	303 23 55.4	Calvert	4.363713	23,105.4
			149 41 53.7	329 41 24.5	Toms Point 2	3.356059	2,270.2
Rip, 1898	38 13 53.190	1,640.2	342 47 29.9	162 49 14.6	Holland Island 2	4.144638	13,952.0
	76 08 23.050	560.7	348 01 31.4	168 03 08.3	Holland Island Bar Lighthouse	4.266381	18,466.3
			58 19 34.5	238 12 46.6	Point No Point	4.275998	18,879.8
			117 06 04.0	297 04 50.3	Richland	3.510574	3,240.2
Pone, 1898	38 10 33.171	1,022.9	1 00 02.0	180 59 56.7	Holland Island Bar Lighthouse	4.075550	11,900.1
	76 05 37.346	909.0	137 52 38.3	317 49 42.2	Richland	4.013181	10,308.1
			146 50 23.5	326 48 41.0	Rip	3.867353	7,368.1
Spring 2, 1898	38 07 56.998	1,757.3	20 19 35.3	200 18 28.8	Holland Island Bar Lighthouse	3.878119	7,553.0
	76 03 58.236	1,418.3	44 43 35.9	224 42 37.0	Holland Island 2	3.518759	3,301.9
			149 36 57.1	329 34 13.5	Rip	4.104960	12,733.9
			153 23 29.1	333 22 27.9	Pone	3.731266	5,386.0

Chesapeake Bay, Patuxent River to Smith Point—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Smith, 1898	38 00 50.347	1,552.4	147 13 42.8	327 12 04.0	Holland Island Bar Lighthouse	3.858648	7,221.8
	76 03 05.502	134.2	177 02 01.1	357 01 50.0	Briery Island	3.916670	8,254.1
			295 34 53.9	115 39 48.7	James Island Lighthouse	4.112513	12,957.3
Pons, 1898	38 18 25.679	791.8	325 27 29.4	145 28 56.5	Toms Point 2	3.780176	6,028.0
	76 13 29.374	713.7	48 39 30.0	228 33 59.6	Reed	4.237886	17,293.6
			71 44 29.3	251 37 59.9	Park	4.206518	16,088.6
			79 16 55.5	259 10 44.2	Abell 2	4.170791	14,818.0
			86 06 42.1	266 01 22.7	Cedar Point Lighthouse	4.098651	12,550.2
			103 40 53.5	283 34 10.9	Up	4.210146	16,223.6
			125 43 57.2	305 42 29.9	Barren Island 2	3.624658	4,213.6
			150 09 17.5	330 07 07.5	Meekins Neck 2	4.009511	10,221.4
Park, 1898	38 15 41.729	1,286.6	213 14 29.2	33 15 39.3	Cedar Point Lighthouse	3.700314	5,015.5
	76 23 57.822	1,405.8	237 34 28.5	57 39 30.7	Barren Island 2	4.147109	14,031.7
			269 39 40.1	89 47 36.3	Toms Point 2	4.271764	18,696.7
			333 13 57.4	153 16 47.4	Point No Point	4.172199	14,866.2
Abell 2, 1898	38 16 55.876	1,722.8	244 48 10.0	64 52 54.1	Barren Island 2	4.089909	12,300.1
	76 23 28.415	690.6	276 54 14.0	97 01 52.1	Toms Point 2	4.257985	18,112.8
			338 58 47.2	159 01 19.1	Point No Point	4.221914	16,669.2
			17 21 55.2	197 21 37.0	Park	3.379367	2,395.3
Reed, 1897	38 12 14.854	458.0	160 07 57.4	340 06 58.7	Park	3.831395	6,782.6
	76 22 23.011	560.0	169 36 15.1	349 35 34.6	Abell 2	3.944953	8,809.5
			182 24 46.3	2 24 57.6	Cedar Point Lighthouse	4.024580	10,582.3
			214 28 02.9	34 32 06.2	Barren Island 2	4.226831	16,859.0
			241 43 04.4	61 47 38.4	Hooper Island Lighthouse	4.087312	12,226.8
			248 25 01.5	68 31 58.8	Toms Point 2	4.246185	17,627.3
			319 24 26.6	139 27 30.0	Point No Point Lighthouse	4.045938	11,115.7
Tarleton 2, 1898	38 14 11.036	340.3	180 49 18.4	0 49 20.3	Abell 2	3.706124	5,083.0
	76 23 31.415	764.0	196 46 39.3	16 47 33.0	Cedar Point Lighthouse	3.863428	7,301.8
			227 21 01.6	47 25 47.4	Barren Island 2	4.182729	15,231.0
			241 44 05.4	61 50 18.4	Pons	4.220309	16,607.7
			260 51 28.9	80 59 08.7	Toms Point 2	4.262134	18,286.6
			335 04 44.5	155 05 26.9	Reed	3.596582	3,949.9

Point No Point Lighthouse, 1905	38 07 40.988	1,263.8	291 03 30.4	111 10 42.3	Holland Island Bar Lighthouse	4.262188	18,288.9
	76 17 26.052	634.5	15 41 26.9	195 40 16.5	Point Lookout Lighthouse	4.012666	10,295.9
			118 32 19.4	298 31 27.3	Point No Point	3.510324	3,238.4
			160 24 22.3	340 21 30.0	Cedar Point Lighthouse	4.305110	20,188.8
			193 59 46.1	14 01 16.4	Hooper Island Lighthouse	4.166319	14,666.2
Muck, 1898	38 08 52.734	1,625.9	23 28 21.9	203 26 45.0	Holland Island Bar Lighthouse	3.982028	9,594.6
	76 03 09.090	221.3	34 51 32.4	214 51 02.0	Spring 2	3.321012	2,094.2
			40 54 17.4	220 52 48.2	Holland Island 2	3.730541	5,377.0
			140 30 45.9	320 27 31.8	Rip	4.079475	12,008.1
Long Island 2, 1898	38 08 14.145	436.1	91 36 49.9	271 28 34.2	Point No Point	4.291359	19,559.6
	76 05 59.974	1,460.6	161 35 40.4	341 34 12.0	Rip	4.042231	11,021.3
			187 18 59.5	7 19 13.5	Pone	3.635968	4,324.8
			280 02 33.7	100 03 48.9	Spring 2	3.478712	3,011.0
Johnson, 1898	38 06 38.071	1,173.8	38 09 49.7	218 08 17.1	Holland Island Bar	3.771778	5,912.6
	76 03 15.990	389.5	91 30 11.3	271 28 46.4	Holland Island 2	3.525556	3,353.9
			157 04 53.8	337 04 27.7	Spring 2	3.421954	2,642.1
Fog 2, 1898	38 02 08.145	251.1	127 38 13.0	307 36 12.5	Holland Island Bar Lighthouse	3.779363	6,016.8
	76 02 30.404	741.5	239 21 41.7	59 22 40.5	Solomon Lump Lighthouse	3.432162	2,705.0
Joseph, 1907	38 00 53.351	1,644.9	146 47 48.0	326 46 09.0	Holland Island Bar Lighthouse	3.854099	7,146.6
	76 03 05.320	129.8	200 15 55.9	20 16 17.4	Fog 2	3.390631	2,458.3
			220 46 56.2	40 48 16.5	Solomon Lump Lighthouse	3.687211	4,866.4
Desert, 1908	38 15 46.786	1,442.6	214 04 43.9	34 05 53.6	Cedar Point Lighthouse	3.688088	4,876.3
	76 23 57.123	1,388.7	273 14 06.4	93 19 38.9	Hooper Island Lighthouse	4.116482	13,076.2
			327 32 16.1	147 36 17.8	Point No Point Lighthouse	4.249095	17,745.8
Cain, 1908	38 16 56.633	1,746.2	226 43 35.4	46 44 26.5	Cedar Point Lighthouse	3.439325	2,750.0
	76 23 27.075	658.1	283 12 30.4	103 17 44.4	Hooper Island Lighthouse	4.102424	12,659.7
			332 49 27.3	152 53 10.6	Point No Point Lighthouse	4.284491	19,252.7
Potomac, 1908	38 02 46.424	1,431.3	195 29 36.5	15 30 40.3	Point No Point Lighthouse	3.974277	9,424.9
	76 19 09.421	229.7	262 40 48.2	82 49 03.5	Holland Island Bar Lighthouse	4.295526	19,748.1
Point Lookin, 1908	38 05 56.993	1,757.2	127 52 46.1	307 51 25.4	St. Michael's Church, spire	3.606082	4,037.2
	76 19 51.498	1,254.8	227 50 38.8	47 52 08.6	Point No Point Lighthouse	3.679303	4,778.6
			279 14 59.7	99 23 41.2	Holland Island Bar Lighthouse	4.319822	20,884.4
			350 05 42.2	170 06 08.1	Potomac	3.775572	5,964.5
St. Jerome, 1908	38 07 13.650	420.9	92 28 31.4	272 27 23.9	St. Michael's Church, spire	3.425898	2,666.2
	76 20 12.964	315.8	258 16 21.8	78 18 04.8	Point No Point Lighthouse	3.618254	4,152.0
			347 31 20.7	167 31 33.9	Point Lookin	3.383937	2,420.7
Point Agin, 1908	38 10 32.754	1,009.9	173 35 13.6	353 34 34.3	Cedar Point Lighthouse	4.140114	13,807.5
	76 21 01.209	29.4	224 28 51.4	44 32 34.8	Hooper Island Lighthouse	4.097896	12,528.4
			315 17 35.9	135 19 48.7	Point No Point Lighthouse	3.872111	7,449.2

Chesapeake Bay, Patuxent River to Smith Point—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Ford, 1908	38 14 11.602	357.7	197 00 59.8	17 01 54.2	Cedar Point Lighthouse	3.862894	7,292.8
	76 23 32.508	790.6	260 00 08.4	80 05 25.6	Hooper Island Lighthouse	4.102055	12,649.0
			323 26 49.7	143 30 36.2	Point No Point Lighthouse	4.175700	14,986.5
Smith 2, 1911	38 00 53.372	1,645.6	146 47 27.2	326 45 48.3	Holland Island Bar Lighthouse	3.854080	7,146.3
	76 03 05.362	129.3	220 47 00.4	40 48 20.7	Solomon Lump Lighthouse	3.687141	4,865.6
			324 20 05.7	144 20 45.5	Smith Island, north church spire	3.429673	2,689.5
Fog 3, 1911, (Maryland Shellfish Commission reference station to Fog 2).	38 02 07.655	236.0	20 23 15.3	200 22 53.8	Smith 2	3.387975	2,443.3
	76 02 30.409	741.6	127 45 05.6	307 43 05.2	Holland Island Bar Lighthouse	3.780023	6,025.9
			239 05 16.8	59 06 15.6	Solomon Lump Lighthouse	3.433418	2,712.8
			350 54 06.3	170 54 24.6	Smith Island, north church spire	3.656337	4,532.5
Pry, 1911	38 05 27.277	841.0	321 23 18.2	141 24 54.4	Solomon Lump Lighthouse	3.784790	6,092.4
	76 03 30.880	752.5	346 31 32.3	166 32 09.6	Fog 3	3.801323	6,328.8
			355 46 28.5	175 46 44.3	Smith 2	3.927783	8,468.0
Hog, 1911	37 58 17.329	534.3	353 53 12	173 53 27	Shanks Hammock 2	3.736786	5,454.9
	76 02 54.228	1,323.6	49 34 52	229 29 52	Smith Point Lighthouse	4.195120	15,671.8
			158 48 23	338 46 37	Holland Island Bar Lighthouse	4.063450	11,573.1
			176 47 12	356 47 05	Smith 2	3.682922	4,818.6
Cheese (Va.), 1911	37 56 50.867	1,568.3	191 03 54	11 04 11	Smith Island, old church spire	3.540270	3,469.5
	76 02 59.321	1,448.4	223 14 14	43 15 22	Smith Island, Ewell, church spire	3.594502	3,931.0
			345 39 23	165 39 41	Shanks Hammock 2	3.454369	2,846.9
End, 1912	38 06 37.737	1,163.5	315 56 35.7	135 59 25.3	Solomon Lump Lighthouse	3.984286	9,644.6
	76 05 30.009	731.1	332 15 12.5	152 17 03.3	Fog 3	3.973486	9,407.8
			4 45 50.2	184 45 40.4	Holland Island Bar Lighthouse	3.667953	4,655.4
Hoop, 1912	38 13 59.740	1,842.0	47 55 04.0	227 49 36.1	Point No Point Lighthouse	4.240781	17,409.3
	76 08 35.551	864.6	105 17 46.0	285 13 47.9	Hooper Island Lighthouse	3.986529	9,694.6
			276 58 32.4	97 01 02.4	Hooper Strait Lighthouse	3.773812	5,940.3
Adam 2, 1912	38 09 15.943	491.6	129 29 15.9	309 23 26.6	Hooper Island Lighthouse	4.250217	17,791.7
	76 05 35.413	862.2	153 24 23.5	333 22 32.1	Hoop	3.990641	9,786.8
			190 41 14.6	10 41 53.1	Hooper Strait Lighthouse	3.912141	8,168.5
Bite, 1912	38 11 20.613	635.6	3 12 28.3	183 12 22.8	Adam 2	3.585454	3,849.9
	76 05 26.564	646.5	118 10 35.2	298 04 40.3	Hooper Island Lighthouse	4.199230	15,820.9
			136 52 33.4	316 50 36.5	Hoop	3.827623	6,723.9
			197 15 36.8	17 16 09.8	Hooper Strait Lighthouse	3.641483	4,380.1

Barren, 1912	38 18 48.288	1,488.9	358 43 01.9	178 43 05.5	Hooper Island Lighthouse	3.802522	6,346.3
	76 15 06.004	145.9	81 19 44.1	261 15 24.6	Cedar Point Lighthouse	4.012455	10,290.9
Shad, 1912	38 17 13.085	403.4	50 53 29.4	230 51 42.6	Hooper Island Lighthouse	3.732642	5,403.1
	76 12 07.722	187.7	95 28 33.3	275 22 23.4	Cedar Point Lighthouse	4.163515	14,571.9
			124 08 15.0	304 06 24.5	Barren	3.718741	5,232.9
Wet, 1912	38 15 12.859	396.5	307 19 31.0	127 20 46.2	Hoop	3.570225	3,717.3
	76 10 37.091	901.8	92 41 12.7	272 38 29.8	Hooper Island Lighthouse	3.806392	6,403.1
			135 29 12.5	315 26 25.9	Barren	3.969352	9,318.6
Cove, 1912	38 16 19.96	615.3	71 32 25	251 30 10	Hooper Island Lighthouse	3.747268	5,588.1
	76 11 22.15	538.4	130 04 28	310 02 09	Barren	3.851691	7,107.1
			145 56 14	325 55 45	Shad	3.296119	1,977.5
Neck, 1912	38 10 31.645	975.7	145 48 39.7	325 46 48.8	Hoop	3.889749	7,758.0
	76 05 36.307	883.9	188 55 26.7	8 55 32.7	Bite	3.184217	1,528.3
			195 06 19.5	15 06 58.5	Hooper Strait Lighthouse	3.770590	5,896.4
Supplementary points							
Rat, 1912[1]	38 20 05.19	160.1	351 14 39	171 15 13	Hooper Island Lighthouse	3.945403	8,818.7
	76 15 55.37	1,344.8	66 22 49	246 19 00	Cedar Point Lighthouse	3.990969	9,794.2
Rich, 1912	38 14 17.20	530.4	104 36 33	284 33 16	Hooper Island Lighthouse	3.903004	7,998.4
	76 09 41.82	1,017.1	141 56 19	321 55 45	Wet	3.338392	2,179.7
			288 27 57	108 28 38	Hoop	3.230281	1,699.3
Holland Island, church spire, 1898	38 07 13.500	416.3	7 36 44.2	187 36 24.7	Holland Island Bar Lighthouse	3.762900	5,793.0
	76 05 14.390	350.5	24 59 14.5	204 59 02.6	Holland Island 2	3.044870	1,108.8
			96 40 52.7	276 32 08.8	Point No Point	4.318129	20,803.1
			174 48 50.0	354 48 35.8	Pone	3.791106	6,181.7
			234 07 27.9	54 08 14.9	Spring 2	3.359627	2,288.9
Long Island, chimney, 1898	38 08 10.55	325.2	187 01 57	7 02 11	Pone	3.646481	4,430.8
	76 05 59.63	1,432.3	278 01 56	98 03 11	Spring 2	3.475070	2,985.9
			347 05 03	167 05 19	Holland Island 2	3.452158	2,832.4
Smith Island, old church spire, 1898	37 58 41.305	1,273.4	48 51 10.0	228 45 56.2	Smith Point Lighthouse	4.219188	16,564.9
	76 02 32.036	781.3	154 49 23.4	334 47 24.0	Holland Island Bar Lighthouse	4.045576	11,106.5
			278 27 48.9	98 32 22.9	Janes Island Lighthouse	4.040992	10,989.9
Smith Island, Ewell, church spire, 1898	37 58 23.739	731.8	54 28 28.8	234 22 24.0	Smith Point Lighthouse	4.250913	17,820.2
	76 01 08.993	219.5	147 30 03.7	327 27 13.2	Holland Island Bar Lighthouse	4.099042	12,561.5
			276 57 08.7	97 00 51.6	Janes Island Lighthouse	3.949806	8,908.5
Smith Island, north church spire, 1898	37 59 42.495	1,310.1	45 58 58.3	225 53 25.5	Smith Point Lighthouse	4.264796	18,399.1
	76 02 01.039	25.4	100 53 55.4	280 43 15.4	Point Lookout Lighthouse	4.411739	25,807.1
			146 07 49.7	326 05 31.0	Holland Island Bar Lighthouse	3.992730	9,834.0
			289 06 54.3	109 11 09.4	Janes Island Lighthouse	4.029527	10,703.5

[1] No check on this position.

Honga River

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Hooper Strait Lighthouse, 1898	38 13 36.269	1,118.0	355 21 18.1	175 21 39.7	Spring 2	4.020985	10,495.1
	76 04 33.133	805.9	5 28 31.0	195 27 51.3	Pone	3.767724	5,857.7
			66 35 37.2	246 26 27.2	Point No Point	4.373083	23,609.3
			95 20 58.3	275 18 36.0	Rip	3.749459	5,616.4
			112 23 30.5	292 19 25.6	Toms Point 2	4.017164	10,403.1
Windr 1898	38 16 18.524	571.2	349 19 43.3	169 20 04.8	Rip	3.658953	4,559.9
	76 08 57.766	1,404.2	34 10 21.7	214 09 29.7	Richland	3.560185	3,632.3
			71 50 17.0	251 48 55.7	Toms Point 2	3.525326	3,352.2
Applegarth, 1910	38 13 56.249	1,734.3	169 12 33.4	349 12 12.1	Windmill 2	3.649898	4,465.8
	76 08 23.370	568.4	276 15 25.0	96 17 47.5	Hooper Strait Lighthouse	3.750791	5,633.7
Okahanikan, 1910	38 11 20.535	633.2	138 09 39.4	318 07 50.1	Applegarth	3.809273	6,445.7
	76 05 26.589	647.1	197 15 29.5	17 16 02.6	Hooper Strait Lighthouse	3.641728	4,382.6
Norman, 1910	38 15 26.588	819.8	324 49 19.8	144 50 20.8	Hooper Strait Lighthouse	3.619189	4,160.9
	76 06 11.688	284.2	351 46 05.3	171 46 33.2	Okahanikan	3.884535	7,665.4
			48 59 33.1	228 58 11.6	Applegarth	3.627784	4,244.1
			111 38 55.8	291 37 13.0	Windmill 2	3.637832	4,343.4
Paul, 1910	38 16 46.890	1,445.8	323 18 08.3	143 18 55.3	Norman	3.489644	3,087.8
	76 07 27.583	670.4	68 15 21.9	248 14 26.1	Windmill 2	3.372933	2,360.1
Duck, 1910	38 16 39.683	1,223.5	1 21 56.0	181 21 54.6	Norman	3.353032	2,254.4
	76 06 09.478	230.4	80 57 09.7	260 55 25.5	Windmill 2	3.617241	4,142.3
			96 40 58.6	276 40 10.2	Paul	3.281342	1,911.4
Hoopersville M. E. Church, spire, 1910	38 15 36.479	1,124.8	244 21 06.6	64 22 15.4	Windmill 2	3.476550	2,996.1
	76 10 48.875	1,188.2	272 34 02.5	92 36 54.1	Norman	3.829046	6,746.0
			311 07 22.2	131 08 52.3	Applegarth	3.671895	4,697.8
Bentley, 1910	38 17 37.966	1,170.6	314 43 18.2	134 44 21.2	Windmill 2	3.541637	3,480.5
	76 10 39.501	959.9	3 28 54.4	183 28 48.6	Hoopersville M. E. Church spire	3.574350	3,752.8
Asquith, 1910	38 17 02.077	64.0	357 06 48.3	177 06 50.0	Windmill 2	3.128587	1,344.6
	76 09 00.552	13.4	44 56 34.3	224 55 27.2	Hoopersville M. E. Church, spire	3.571492	3,728.1
			114 43 08.7	294 42 07.4	Bentley	3.422770	2,647.1
Lakes, 1910	38 18 36.760	1,133.4	6 08 37.9	186 08 29.9	Asquith	3.467793	2,936.2
	76 08 47.622	1,157.0	56 18 43.5	236 17 34.2	Bentley	3.514209	3,267.5
Charles, 1910	38 18 54.887	1,692.3	289 05 48.1	109 06 29.3	Lakes	3.232449	1,707.8
	76 09 54.049	1,313.1	339 30 13.1	159 30 46.2	Asquith	3.569755	3,713.3
			24 58 21.0	204 57 52.8	Bentley	3.417676	2,616.2
Wroten, 1910	38 19 21.764	671.0	294 38 23.2	114 39 09.3	Charles	3.298251	1,987.2
	76 11 08.401	204.1	347 37 23.2	167 37 41.1	Bentley	3.515416	3,276.5
Bridge, 1910	38 17 59.034	1,820.2	215 59 33.5	36 00 20.8	Wroten	3.498722	3,153.0
	76 12 24.682	599.7	244 47 15.4	64 48 48.8	Charles	3.606893	4,044.8
			284 15 02.8	104 16 08.0	Bentley	3.421132	2,637.1
Mount Zion M. E. Church, spire, 1910	38 18 58.814	1,813.4	259 06 36.0	79 08 10.0	Wroten	3.574028	3,750.0
	76 13 39.997	971.6	315 12 07.3	135 12 54.0	Bridge	3.414518	2,597.3
Gunners, 1910	38 20 16.992	523.9	306 00 34.1	126 01 33.9	Wroten	3.461775	2,895.8
	76 12 44.835	1,088.9	353 25 57.8	173 26 10.3	Bridge	3.631625	4,281.8
			29 04 19.3	209 03 45.1	Mount Zion M. E. Church, spire	3.440567	2,757.8
Kerwin, 1910	38 21 38.535	1,188.2	355 12 41.0	175 12 50.0	Wroten	3.626535	4,231.9
	76 11 22.944	557.0	38 20 49.3	218 19 58.5	Gunners	3.505905	3,205.6
Keenes, 1910	38 21 53.321	1,644.1	280 32 11.7	100 33 14.3	Kerwin	3.396385	2,491.1
	76 13 03.818	92.7	329 02 07.4	149 03 19.0	Wroten	3.736326	5,449.1
			351 10 37.8	171 10 49.6	Gunners	3.477948	3,005.7
Supplementary points							
Norman, 1898 [1]	38 14 19.72	608.0	82 12 47	262 10 15	Rip	3.77963	6,020
	76 04 17.80	432.9	104 42 49	284 38 34	Toms Point 2	4.01412	10,330
Hopkins Mem. Church, 1910	38 14 35.671	1,099.8	167 24 16.4	347 23 58.4	Windmill 2	3.511820	3,249.5
	76 08 28.615	695.8	244 44 33.9	64 45 58.7	Norman	3.565965	3,681.0
			354 00 33.2	174 00 36.5	Applegarth	3.087128	1,222.2
Hosier Mem. Church, spire, 1910	38 19 56.028	1,727.5	228 31 32.0	48 33 03.4	Kerwin	3.678841	4,773.5
	76 13 50.259	1,220.7	285 01 38.3	105 03 18.7	Wroten	3.609696	4,071.0
			330 02 12.5	150 03 05.6	Bridge	3.619460	4,163.5
St. Thomas Church, spire, 1910	38 15 57.702	1,779.1	69 58 15.7	249 57 08.7	Norman	3.447128	2,799.8
	76 04 23.496	571.2	95 31 25.7	275 28 35.9	Windmill 2	3.825951	6,698.1
			116 41 10.2	296 40 04.6	Duck	3.459866	2,883.1

[1] No check on this position.

Tangier Sound

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Sharkfin Shoal Lighthouse, 1898	38 12 07.657	236.1	32 52 35.4	212 48 33.0	Holland Island Bar Lighthouse	4.246237	17,629.4
	75 59 13.277	323.0	41 56 03.5	221 53 07.4	Spring 2	4.016404	10,384.9
			103 43 17.7	283 37 37.7	Rip	4.138751	13,764.2
			111 05 18.5	290 57 55.7	Toms Point 2	4.270528	18,643.5
Blood, 1901	38 11 29.322	904.1	254 58 26.8	75 00 18.8	Sharkfin Shoal Lighthouse	3.659313	4,563.7
	76 02 14.426	351.1	21 07 02.7	201 05 58.6	Spring 2	3.846172	7,017.3
Haines, 1901	38 10 34.039	1,049.6	64 01 53.3	243 57 41.5	Spring 2	4.043125	11,044.0
	75 57 10.553	256.9	103 00 18.1	282 57 10.3	Blood	3.880208	7,589.4
			134 02 03.1	314 00 47.2	Sharkfin Shoal Lighthouse	3.618412	4,153.5
Clay, 1901	38 13 57.727	1,780.0	343 42 01.9	163 42 48.4	Haines	3.815779	6,543.0
	75 58 25.999	632.5	18 43 29.3	198 43 00.1	Sharkfin Shoal Lighthouse	3.554290	3,583.4
			50 33 07.4	230 30 46.1	Blood	3.857248	7,198.6
Bishop 2, 1898	38 13 25.696	792.3	261 33 18.5	81 36 08.2	Clay	3.828900	6,743.7
	76 03 00.270	6.6	301 51 02.6	121 54 38.7	Haines	4.000912	10,021.0
			342 43 42.2	162 44 10.5	Blood	3.574894	3,757.5
Hall, 1901	38 11 20.209	623.1	35 42 02.3	215 41 36.3	Haines	3.243748	1,752.9
	75 56 28.528	694.3	91 56 30.4	271 52 56.2	Blood	3.925428	8,422.2
			110 03 44.9	290 02 03.0	Sharkfin Shoal Lighthouse	3.630175	4,267.5
			149 32 09.4	329 30 56.9	Clay	3.750909	5,635.2
Ted, 1901	38 15 08.958	276.2	291 01 10.7	111 03 36.0	Clay	3.736570	6,117.4
	76 02 20.789	505.5	309 25 39.4	129 29 17.0	Hall	4.045251	11,098.2
			320 46 23.6	140 48 19.6	Sharkfin Shoal Lighthouse	3.858210	7,214.6
			358 41 25.5	178 41 29.5	Blood	3.830829	6,773.7
Sandy 2, 1901	38 14 45.630	1,407.0	1 59 26.0	181 59 20.3	Hall	3.801920	6,337.5
	75 56 19.482	473.8	9 06 14.6	189 05 42.9	Haines	3.895207	7,856.1
			40 58 12.4	220 56 24.9	Sharkfin Shoal Lighthouse	3.809521	6,449.4
			54 59 59.5	234 56 19.9	Blood	4.023026	10,544.5
			64 22 04.1	244 20 45.8	Clay	3.533124	3,412.9
Fish Bone (Va.), 1898	37 53 04.723	145.6	88 08 01.5	268 01 23.3	Smith Point Lighthouse	4.200278	15,859.1
	76 00 13.851	338.5	141 38 15.1	321 36 51.3	Shanks Hummock 2	3.730408	5,375.4
			220 34 13.4	40 37 22.2	Janes Island Lighthouse	4.061718	11,527.0
			279 58 44.2	99 59 30.4	Reach Hammock	3.269436	1,859.7
			346 14 26.5	166 15 32.2	Tangier Sound Lighthouse	4.042874	11,037.6

Janes Island Lighthouse, 1898	37	57	48.610	1,498.6	353	44	58.8	173	45	54.0	Watts Island Lighthouse	4.305872	20,224.2
	75	55	06.731	164.3	68	23	31.2	248	13	43.8	Smith Point Lighthouse	4.400047	25,121.6
					126	52	53.6	306	46	20.0	Holland Island Bar Lighthouse	4.289529	19,477.3
Reach Hammock (Va.), 1898	37	52	54.265	1,673.0	355	38	53.5	175	39	13.4	Tangier Sound Lighthouse	4.018234	10,428.8
	75	58	58.903	1,439.4	131	17	42.4	311	15	32.4	Shanks Hammock 2	3.837385	6,876.8
					173	11	48.3	353	11	24.4	Horse Hammock	3.903457	8,006.8
					211	58	46.7	32	01	09.4	Janes Island Lighthouse	4.029426	10,701.0
Egg, 1901	38	08	28.923	891.8	78	51	43.5	258	49	36.9	Spring 2	3.706512	5,087.6
	76	00	33.273	810.3	156	07	45.6	336	06	43.1	Blood	3.784108	6,082.9
					231	58	12.7	52	00	18.0	Haines	3.796860	6,264.1
Deal 2, 1901	38	08	10.719	3306	87	25	40.4	267	21	44.6	Spring 2	3.968856	9,308.0
	75	57	36.434	887.3	97	26	27.2	277	24	38.0	Egg	3.637778	4,342.9
					162	07	25.9	342	06	25.9	Sharkfin Shoal Lighthouse	3.885154	7,676.3
					188	06	46.3	8	07	02.2	Haines	3.649688	4,463.6
Buff, 1901	38	05	46.933	1,447.1	177	18	46.9	357	18	41.0	Egg	3.698973	5,000.0
	76	00	23.647	576.2	207	57	41.7	27	59	40.9	Haines	4.001027	10,023.7
					222	33	45.4	42	35	28.6	Deal 2	3.779627	6,020.4
Thomas, 1901	38	06	58.066	1,790.4	66	48	10.3	246	46	00.8	Buff	3.745376	5,563.9
	75	56	53.767	1,309.8	117	40	21.6	297	38	06.1	Egg	3.780728	6,035.7
					155	06	57.5	335	06	31.2	Deal 2	3.392589	2,469.4
Piney, 1901	38	06	31.291	964.8	79	23	54.2	259	20	49.6	Buff	3.870177	7,416.1
	75	55	24.485	596.5	110	47	30.3	290	46	35.2	Thomas	3.366683	2,326.4
					115	46	15.2	295	43	04.6	Egg	3.921684	8,350.0
Hazzard, 1901	38	03	37.998	1,171.6	109	01	50.2	288	56	57.9	Buff	4.086951	12,216.6
	75	52	29.681	723.6	133	48	32.1	313	45	49.2	Thomas	3.950093	8,914.4
					141	26	50.8	321	25	09.0	Piney	3.834638	6,833.4
Flat Cap, 1901	38	01	51.715	1,594.5	26	51	20.7	206	49	45.0	Janes Island Lighthouse	3.924304	8,400.5
	75	52	31.271	762.7	98	46	01.4	278	40	51.0	Solomons Lump Lighthouse	4.094340	12,426.2
Terrapin, 1907	38	00	56.845	1,752.6	131	41	04.3	311	39	22.7	Solomons Lump Lighthouse	3.730738	5,379.5
	75	58	10.183	248.4	258	24	17.2	78	27	45.9	Flat Cap	3.926224	8,437.7
					322	20	21.9	142	22	14.8	Janes Island Lighthouse	3.865074	7,329.5
Has, 1907	38	03	34.546	1,065.1	4	53	23.7	184	53	16.9	Flat Cap	3.502704	3,182.0
	75	52	20.150	491.3	20	52	16.8	200	50	34.3	Janes Island Lighthouse	4.057427	11,413.7
					60	21	48.6	240	18	13.0	Terrapin	3.992272	9,823.6
					84	11	43.0	264	06	25.7	Solomons Lump Lighthouse	4.100954	12,616.9
Prickly, 1907	38	05	18.871	581.8	357	41	40.4	177	41	43.7	Has	3.507746	3,219.2
	75	52	25.461	620.5	70	07	00.8	250	01	46.7	Solomons Lump Lighthouse	4.120910	13,210.2

Tangier Sound—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Joshua, 1907	38 06 58.889	1,815.7	295 09 28.0	115 12 14.1	Prickly	3.860210	7,247.9
	75 56 54.668	1,331.7	313 15 33.2	133 18 22.5	Has	3.963296	9,189.6
			37 41 12.4	217 38 44.2	Solomons Lump Lighthouse	3.981520	9,583.4
Miles, 1907	38 05 45.729	1,409.9	246 20 09.4	66 22 19.9	Joshua	3.750046	5,624.0
	76 00 26.127	636.5	274 00 10.6	94 05 07.1	Prickly	4.069744	11,742.1
			7 30 42.1	187 30 24.3	Solomons Lump Lighthouse	3.730500	5,376.5
Bar, 1907	38 08 28.635	882.9	340 52 22.9	160 52 47.2	Joshua	3.466676	2,928.7
	75 57 34.062	829.4	39 51 31.2	219 49 45.0	Miles	3.815701	6,541.9
			188 25 04.8	8 25 19.4	Haines	3.592025	3,908.6
Senator, 1907	38 08 04.122	127.1	196 19 41.9	16 20 37.8	Sharkfin Shoal Lighthouse	3.893467	7,824.7
	76 00 43.689	1,064.0	228 17 18.7	48 19 30.4	Haines	3.841945	6,949.4
			260 41 19.3	80 43 16.4	Bar	3.670189	4,679.4
			289 48 27.1	109 50 48.5	Joshua	3.773037	5,929.8
			354 16 22.6	174 16 33.4	Miles	3.632292	4,288.4
Beacon (Va.), 1907	37 54 35.465	1,093.4	65 29 25.3	245 26 33.4	Reach Hammock	3.875883	7,514.2
	75 54 19.125	467.2	72 08 25.1	252 04 47.1	Fishbone	3.959385	9,107.2
			168 57 28.3	348 56 59.0	Janes Island Lighthouse	3.783000	6,067.4
			261 39 18.2	81 40 03.4	Sam	3.260358	1,821.2
Horse (Va.), 1907	37 57 12.064	371.9	260 18 46.3	80 21 33.0	Janes Island Lighthouse	3.826864	6,712.2
	75 59 37.780	922.4	301 47 23.0	121 50 38.9	Beacon	3.961803	9,158.1
			353 11 01.2	173 11 25.1	Reach Hammock	3.903350	8,004.8
			6 35 36.0	186 35 13.8	Fishbone	3.885166	7,676.5
Crab, 1907	38 10 31.865	982.5	225 24 22.4	45 25 38.5	Sharkfin Shoal Lighthouse	3.624034	4,207.6
	76 01 16.420	399.7	259 20 14.2	89 22 46.2	Haines	3.777050	5,984.8
			305 02 38.6	125 04 56.0	Bar	3.820451	6,613.8
			350 04 27.1	170 04 47.3	Senator	3.665063	4,624.5
Frog, 1907	38 14 11.120	342.9	292 02 55.5	112 05 29.4	Great Shoals Lighthouse	3.814456	6,523.1
	75 56 55.312	1,345.3	3 10 20.3	183 10 10.9	Haines	3.826298	6,703.4
			41 24 43.4	221 23 18.1	Sharkfin Shoal Lighthouse	3.705425	5,074.9
			43 14 34.1	223 11 52.7	Crab	3.967396	9,276.8
Head, 1907	38 13 19.975	615.9	257 49 13.3	77 52 19.5	Frog	3.874489	7,490.1
	76 01 56.362	1,371.1	299 19 18.9	119 20 59.8	Sharkfin Shoal Lighthouse	3.658124	4,551.2
			306 19 00.1	126 21 56.9	Haines	3.936194	8,633.6
			349 22 35.3	169 23 00.1	Crab	3.722106	5,273.6
Room, 1907	38 11 20.112	620.1	110 00 42.8	289 59 00.4	Sharkfin Shoal Lighthouse	3.632115	4,286.6
	75 56 27.738	675.1	172 45 05.9	352 44 48.8	Frog	3.725516	5,315.2
			242 17 19.3	62 19 36.1	Great Shoals Lighthouse	3.783307	6,071.7
White, 1907	38 13 42.088	1,297.8	315 43 35.1	135 44 13.7	Great Shoals Lighthouse	3.337020	2,172.8
	75 53 49.132	1,195.1	41 24 34.0	221 22 55.8	Room	3.766076	5,835.5
			69 45 43.1	249 42 22.6	Sharkfin Shoal Lighthouse	3.924581	8,405.8
			101 11 52.5	281 09 57.2	Frog	3.664244	4,615.8
Beacon (Old), (Va.), 1898	37 54 35.230	1,086.2	24 08 08.4	204 05 36.7	Tangier Sound Lighthouse	4.170366	14,803.6
	75 54 19.179	468.6	65 32 11.0	245 29 19.2	Reach Hammock	3.875644	7,510.1
			96 48 29.9	276 43 28.0	Shanks Hammock 2	4.082208	12,083.9
			121 53 59.1	301 50 43.3	Horse Hammock	3.961956	9,161.3
Supplementary points			168 58 59.2	348 58 30.0	Janes Island Lighthouse	3.783490	6,074.2
Fox Island poplar (Va.), 1907	37 53 44.451	1,370.5	77 06 00.8	257 03 11.3	Reach Hammock	3.840007	6,918.4
	75 54 22.942	560.5	129 48 07.8	309 44 54.3	Horse	4.000218	10,005.0
			171 55 06.1	351 54 39.2	Janes Island Lighthouse	3.881005	7,603.4
			183 23 34.5	3 23 36.9	Beacon	3.197437	1,575.6
			225 53 26.3	45 54 13.9	Sam	3.421515	2,639.5
			227 18 41.8	47 21 06.5	Watermelon Hummock	3.893069	7,817.5
			239 51 48.6	59 54 27.4	East	3.863105	7,296.3
			268 48 55.8	88 54 23.0	Mos	4.114375	13,012.9
Deal Island, church spire, 1901	38 09 18.583	573.0	67 34 17.7	247 31 56.8	Senator	3.779050	6,012.4
	75 56 55.486	1,351.0	109 36 11.6	289 33 30.4	Crab	3.828787	6,742.0
			171 02 30.6	351 02 21.4	Haines	3.372034	2,355.2
			180 01 36.4	0 01 36.6	Frog	3.955191	9,019.7
Deal Island, colored church spire, 1901	38 08 47.33	1,459.4	51 54 25	231 53 48	Deal 2	3.26234	1,830
	75 56 37.32	908.7	81 48 56	261 44 24	Spring 2	4.03537	10,849
Pearl, 1901	38 10 42.77	1,318.8	215 09 25	35 11 13	Clay	3.86650	7,354
	76 01 20.09	489.0	272 30 58	92 33 32	Haines	3.78386	6,079
Winona, schoolhouse flagstaff, 1901	38 08 17.30	533.4	272 41 01	92 42 31	Kelley	3.55139	3,560
	75 57 04.28	104.2	323 21 09	143 22 11	Piney	3.60996	4,073
Dames Quarter, church spire, 1901	38 10 48.044	1,481.4	341 46 32	161 47 12	Marsh	3.701308	5,027.0
	75 54 06.885	167.6	9 01 29	189 01 10	Kelley	3.688014	4,875.4
			29 49 47	209 48 04	Thomas	3.912360	8,172.6
Somers Cove Lighthouse, 1895	37 57 59.480	1,833.8	21 06 02.0	201 05 00.8	Beacon (1898)	3.829272	6,749.5
	75 52 39.711	969.5	84 40 39.2	264 39 08.8	Janes Island Lighthouse	3.556834	3,604.4
Tangier Island, church spire (Va.), 1898	37 49 38.161	1,176.5	109 08 51.7	289 01 48.4	Smith Point Lighthouse	4.251575	17,847.4
	75 59 32.552	796.1	203 13 18.6	23 16 01.9	Janes Island Lighthouse	4.216349	16,456.9
			339 38 48.7	159 39 29.2	Tangier Sound Lighthouse	3.666746	4,642.4

Fishing Bay

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Bay, 1901	38 15 57.25	1,765.3	344 36 23	164 36 49	Clay	3.582330	3,822.3
	75 59 07.72	187.6	72 25 00	252 23 01	Ted	3.692366	4,924.5
Rose, 1901	38 16 53.88	1,661.4	295 46 39	115 48 11	Bay	3.60351	4,013
	76 01 36.38	884.2	18 27 25	198 26 58	Ted	3.53281	3,410
Fish, 1901	38 18 32.42	999.6	330 06 05	150 07 15	Bay	3.74182	5,518
	76 01 00.87	21.1	17 12 40	197 11 50	Ted	3.81738	6,567
Fish, 1910	38 15 55.497	1,711.1	315 53 39.2	135 54 58.6	Frog	3.651381	4,481.1
	75 59 03.550	86.3	41 14 42.3	221 12 55.3	Head	3.804550	6,376.0
Croch, 1910	38 15 11.093	342.0	254 10 47.2	74 12 50.4	Fish	3.701340	5,027.4
	76 02 22.516	547.5	283 03 18.7	103 06 41.3	Frog	3.912156	8,168.8
			349 28 48.5	169 29 04.7	Head	3.542157	3,484.6
Ear, 1910	38 17 26.885	828.9	336 15 44.8	156 16 16.4	Fish	3.488281	3,078.1
	75 59 54.519	1,324.9	40 40 59.6	220 39 27.9	Croch	3.741952	5,520.2
Roast, 1910	38 16 52.124	1,607.1	246 37 54.2	66 38 57.5	Ear	3.431861	2,703.1
	76 01 36.625	890.2	295 07 28.7	115 09 03.7	Fish	3.613862	4,110.2
			19 42 27.2	199 41 58.8	Croch	3.519676	3,308.8
Elliott, 1910	38 18 33.152	1,022.2	320 58 08.7	140 58 50.9	Ear	3.419971	2,630.1
	76 01 02.673	64.9	14 50 15.8	194 49 54.7	Roast	3.508152	3,222.4
Farm, 1910	38 18 50.475	1,556.3	281 54 38.1	101 55 42.7	Elliott	3.412639	2,586.1
	76 02 46.823	1,137.5	301 36 08.3	121 37 55.1	Ear	3.691615	4,916.4
			334 56 25.6	154 57 09.1	Roast	3.605103	4,028.1
Thoro, 1910	38 19 53.838	1,660.0	343 16 17.0	163 16 34.1	High	3.366638	2,326.2
	76 01 08.558	207.9	356 42 39.1	176 42 42.8	Elliott	3.396533	2,491.9
			50 42 31.5	230 41 30.6	Farm	3.489194	3,084.6
High, 1910	38 18 41.587	1,282.3	63 43 04.4	243 42 51.0	Elliott	2.768875	587.3
	76 00 40.998	996.0	95 08 01.1	275 06 43.1	Farm	3.487012	3,069.1
Supplementary point							
Toddville M. E. Church spire, 1910	38 17 49.112	1,514.3	225 56 39.6	45 57 29.5	Farm	3.434773	2,721.3
	76 04 07.323	177.9	253 08 42.8	73 10 37.3	Elliott	3.670948	4,687.6
			276 20 37.3	96 23 14.0	Ear	3.791092	6,181.5

Nanticoke River

Principal points							
Mulberry, 1901	38 17 12.719	392.2	3 17 19	183 17 12	Sandy 2	3.657317	4,542.7
	75 56 08.764	213.0	29 02 22	209 00 58	Clay	3.837332	6,875.9
			61 52 13	241 50 23	Bay	3.693110	4,933.0
Nanti, 1907	38 13 58.965	1,818.1	338 03 45.3	158 04 19.0	Short	3.548665	3,537.2
	75 54 07.875	191.5	34 48 01.3	214 46 34.8	Room	3.775524	5,963.8
			65 13 54.6	245 10 45.7	Sharkfin Shoal Lighthouse	3.912947	8,183.6
			95 16 21.9	275 14 38.3	Frog	3.611657	4,089.4
Roar, 1907	38 15 52.861	1,629.9	336 28 20.4	156 28 59.3	Nanti	3.583200	3,830.0
	75 55 10.738	261.1	39 02 10.4	219 01 05.7	Frog	3.606175	4,038.1
Cow, 1907	38 16 01.937	59.7	277 20 18.2	97 21 13.5	Roar	3.340164	2,188.6
	75 56 40.027	973.1	315 41 24.4	135 42 58.6	Nanti	3.724072	5,297.5
			6 12 32.5	186 12 23.1	Frog	3.536175	3,437.0
Rag, 1907	38 17 34.361	1,059.5	18 15 03.1	198 14 36.8	Roar	3.517891	3,295.3
	75 54 28.287	687.4	48 20 33.8	228 19 12.2	Cow	3.632098	4,286.5
Okay, 1907	38 18 11.261	347.2	294 03 38.5	114 04 43.4	Rag	3.445545	2,789.6
	75 56 13.107	318.5	340 26 19.4	160 26 58.0	Roar	3.655958	4,528.5
			9 19 13.0	189 18 56.3	Cow	3.606466	4,040.8
Pole, 1907	38 18 29.635	913.7	26 23 56.9	206 23 35.3	Rag	3.279352	1,902.6
	75 53 53.476	1,299.3	80 31 54.6	260 30 28.1	Okay	3.536504	3,439.6
Ar, 1907	38 19 22.333	688.6	306 38 47.1	126 39 42.8	Pole	3.434851	2,721.8
	75 55 23.358	567.4	338 05 58.2	158 06 32.3	Rag	3.554843	3,587.9
			28 52 57.8	208 52 27.0	Okay	3.398387	2,502.6
Juliet, 1907	38 19 42.430	1,308.2	30 13 23.0	210 12 49.6	Pole	3.414547	2,597.4
	75 52 59.662	1,449.2	79 56 44.5	259 55 15.4	Ar	3.549614	3,545.0
Gover, 1907	38 20 38.163	1,176.7	308 13 54.7	128 14 50.4	Juliet	3.443478	2,776.4
	75 54 29.449	715.1	347 33 45.4	167 34 07.7	Pole	3.608325	4,058.1
			29 15 11.1	209 14 37.7	Ar	3.428090	2,679.7
Earle, 1907	38 20 32.496	1,002.0	41 04 59.4	221 04 25.0	Juliet	3.311306	2,047.9
	75 52 04.256	103.4	92 50 57.7	272 49 27.6	Gover	3.547807	3,530.3
Streett, 1907	38 21 11.808	364.1	314 59 02.9	134 59 33.9	Earle	3.234142	1,714.5
	75 52 54.192	1,315.8	2 45 36.5	182 45 33.1	Juliet	3.440756	2,759.0
			65 51 09.9	245 50 10.8	Gover	3.403990	2,535.1
Supplementary points							
Bivalve church, 1901	38 18 24.094	742.9	84 33 52.2	264 32 06.4	Okay	3.619680	4,165.6
	75 53 22.437	545.2	121 26 49.4	301 25 34.4	Ar	3.536938	3,443.0
			158 30 46.4	338 30 04.8	Gover	3.647651	4,442.7
Nanticoke, church, 1901	38 16 11.883	366.4	44 28 06.3	224 26 33.3	Frog	3.717375	5,216.4
	75 54 25.056	609.1	84 40 18.9	264 38 55.3	Cow	3.517900	3,295.3
			178 13 54.3	358 13 52.3	Rag	3.405564	2,544.3

Wicomico River

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Long, 1901	38 12 13.374	412.4	113 07 52	293 04 40	Clay	3.913783	8,199.4
	75 53 15.970	388.6	136 27 34	316 25 40	Sandy 2	3.811432	6,477.9
			163 34 20	343 33 59	Stump 2	3.455116	2,851.8
Pigeon, 1901	38 12 13.30	410.1	90 03 44	270 02 46	Long	3.35870	2,284
	75 51 42.10	1,024.4	178 28 39	358 28 37	Wingate	3.50634	3,209
Stump 2, 1901	38 13 42.088	1,297.8	41 34 15.1	221 32 36.4	Hall	3.766859	5,846.0
	75 53 49.129	1,195.0	69 45 44.1	249 42 23.6	Sharkfin Shoal Lighthouse	3.924584	8,405.9
			94 07 10.5	274 04 19.2	Clay	3.829385	6,751.3
Great Shoals Lighthouse, 1901	38 12 51.626	1,591.9	62 26 09.4	242 23 52.1	Hall	3.784427	6,087.3
	75 52 46.783	1,138.1	81 49 45.1	261 45 46.0	Sharkfin Shoal Lighthouse	3.977741	9,500.4
			103 54 13.6	283 50 43.8	Clay	3.929377	8,499.2
Ellis, 1901	38 14 34.23	1,055.5	319 59 32	139 59 56	Wingate	3.17180	1,485
	75 52 24.87	604.8	15 58 31	195 57 59	Long	3.65490	4,518
Wingate, 1901	38 13 57.329	1,767.7	34 27 05	214 26 09	Long	3.589576	3,886.7
	75 51 45.602	1,109.2	81 07 14	261 05 58	Stump 2	3.483007	3,040.9
Monie, 1901	38 13 05.89	181.6	69 41 39	249 39 48	Long	3.66862	4,663
	75 50 16.25	395.3	126 07 41	306 06 46	Wingate	3.42985	2,691
Ballard, 1901	38 14 26.71	823.6	53 02 13	233 01 42	Wingate	3.17785	1,506
	75 50 56.12	1,364.8	71 54 37	251 52 50	Stump 2	3.64609	4,427
Short, 1907	38 12 12.544	386.8	89 02 40.2	268 58 57.7	Sharkfin Shoal Lighthouse	3.942185	8,753.6
	75 53 13.562	330.0	162 36 04.3	342 35 42.3	White	3.461397	2,893.3
			208 23 48.9	28 24 05.5	Great Shoals Lighthouse	3.136674	1,369.9
Dove, 1907	38 12 15.721	484.7	87 40 24.3	267 39 23.2	Short	3.380987	2,404.3
	75 51 34.828	847.4	122 18 52.1	302 18 07.6	Great Shoals Lighthouse	3.316236	2,071.3
Wind, 1907	38 13 57.559	1,774.7	355 29 55.8	175 30 02.1	Dove	3.498264	3,149.7
	75 51 44.987	1,094.2	33 38 59.0	213 38 04.2	Short	3.589873	3,889.3
			36 29 05.0	216 28 26.8	Great Shoals Lighthouse	3.402824	2,528.3
			81 01 59.9	261 00 43.1	White	3.485283	3,056.9
Little, 1907	38 13 04.723	145.6	51 37 26.6	231 36 38.1	Dove	3.386197	2,433.3
	75 50 16.425	399.6	69 32 36.9	249 30 47.3	Short	3.662759	4,600.0
			83 42 46.0	263 41 13.0	Great Shoals Lighthouse	3.565843	3,680.0
			127 06 21.4	307 05 26.6	Wind	3.431493	2,700.8
Ella, 1907	38 14 34.315	1,058.0	319 50 39.9	139 51 04.2	Wind	3.171050	1,482.7
	75 52 24.300	591.0	9 48 04.4	189 47 50.5	Great Shoals Lighthouse	3.506918	3,213.1
			52 02 07.8	232 01 15.3	White	3.417834	2,617.2
Ball, 1907	38 14 25.769	794.5	52 52 55.9	232 52 26.6	Wind	3.158724	1,441.2
	75 50 57.736	1,404.1	97 08 30.9	277 07 37.3	Ella	3.326644	2,121.5
Holland, 1907	38 14 49.833	1,536.5	338 30 37.1	158 31 09.5	Little	3.541934	3,482.8
	75 51 08.874	215.8	339 56 42.2	159 56 49.1	Ball	2.897548	789.9
			28 35 19.7	208 34 57.3	Wind	3.263752	1,835.5
			75 23 07.4	255 22 20.7	Ella	3.277730	1,895.5
Ivee, 1907	38 14 56.891	1,754.1	53 42 36.1	233 42 02.8	Ball	3.209812	1,621.1
	75 50 04.005	97.4	82 09 00.4	262 08 20.2	Holland	3.202025	1,592.3
Mount Vernon Church, 1901	38 14 38.877	1,198.7	10 25 01.7	190 24 48.0	Little	3.470066	2,951.7
	75 49 54.485	1,324.9	100 35 04.1	280 34 18.0	Holland	3.264858	1,840.2
			157 22 35.6	337 22 29.7	Ivee	2.779410	601.7
Child, 1907	38 15 27.076	834.8	349 44 38.3	169 44 45.2	Mount Vernon Church	3.179051	1,510.3
	75 50 05.543	134.8	357 41 54.6	177 41 55.6	Ivee	2.969158	931.4
			33 52 52.3	213 52 20.0	Ball	3.357325	2,276.8
			53 17 32.8	233 16 53.6	Holland	3.283503	1,920.9
Jones, 1907	38 15 05.021	154.8	52 23 11.8	232 22 45.2	Mount Vernon Church	3.120794	1,320.7
	75 49 11.464	278.7	78 54 11.3	258 53 38.8	Ivee	3.114580	1,301.9
			117 21 05.3	297 20 31.8	Child	3.170353	1,480.3
Creek, 1907	38 15 39.168	1,207.7	3 00 52.8	183 00 51.4	Jones	3.022974	1,054.3
	75 49 09.184	223.3	30 39 06.2	210 38 38.2	Mount Vernon Church	3.334616	2,160.8
			45 38 34.5	225 38 00.6	Ivee	3.270531	1,864.4
			74 46 58.7	254 46 23.8	Child	3.152304	1,420.1
End, 1907	38 15 23.095	712.1	60 32 41.3	240 32 16.2	Jones	3.054285	1,133.1
	75 48 30.885	750.9	118 01 37.7	298 01 14.0	Creek	3.023173	1,054.8
Walnut, 1907	38 15 09.187	283.3	83 48 53.7	263 48 23.6	Jones	3.076045	1,191.4
	75 48 22.752	553.6	129 19 01.0	309 18 32.3	Creek	3.164085	1,459.1
			155 14 41.0	335 14 36.0	End	2.674152	472.2
White Haven Church, 1907	38 16 14.695	453.1	32 04 42.0	212 04 09.7	Walnut	3.377239	2,383.6
	75 47 30.689	746.0	42 36 50.3	222 36 13.0	End	3.334789	2,161.7
			48 45 48.4	228 44 46.0	Jones	3.513012	3,258.5

Manokin River

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Kelley, 1901	38 08 11.839	365.0	328 44 44.7	148 46 06.7	Prickly	3.795018	6,237.6
	75 54 38.264	931.9	55 54 49.6	235 53 25.4	Joshua	3.603369	4,012.1
Marsh, 1901	38 08 13.134	405.0	350 30 31.8	170 30 54.6	Prickly	3.736193	5,447.4
	75 53 02.321	56.5	67 59 47.6	247 57 24.2	Joshua	3.785656	6,104.6
			89 01 45.9	269 00 46.7	Kelley	3.368630	2,336.8
St. Pierre, 1901	38 07 53.425	1,647.3	17 33 27.0	197 32 48.8	Prickly	3.698792	4,998.0
	75 51 23.592	574.7	96 50 43.6	276 48 43.4	Kelley	3.678967	4,774.9
			104 11 29.9	284 10 28.9	Marsh	3.394461	2,480.1
Jean, 1907	38 08 41.721	1,286.3	24 02 23.4	204 01 12.7	Prickly	3.835551	6,847.8
	75 50 30.988	754.7	40 42 35.4	220 42 02.9	St. Pierre	3.293202	1,964.3
			76 33 44.0	256 32 10.5	Marsh	3.578543	3,789.2
Fairmount Church, spire, 1901	38 06 23.751	732.3	72 18 16.0	252 15 37.4	Prickly	3.817775	6,573.2
	75 48 08.490	206.9	115 15 19.9	295 12 18.4	Marsh	3.898284	7,912.0
			120 12 23.2	300 10 22.7	St. Pierre	3.740224	5,498.2
			140 48 04.0	320 46 36.0	Jean	3.739589	5,490.2
Sandy, 1907	38 08 24.787	764.3	352 05 46.7	172 05 59.8	Fairmount Church spire	3.576065	3,767.6
	75 48 29.755	724.7	77 08 56.6	257 07 09.2	St. Pierre	3.637745	4,342.6
			100 02 23.3	280 01 08.4	Jean	3.476831	2,998.0
Green, 1907	38 08 28.601	881.8	18 52 59.9	198 52 26.5	Fairmount Church spire	3.609408	4,068.3
	75 47 14.447	351.8	86 20 16.5	266 19 30.0	Sandy	3.264262	1,837.6
			94 50 53.7	274 48 52.3	Jean	3.681517	4,803.0
Cox, 1907	38 08 45.909	1,415.6	349 42 34.2	169 42 36.6	Green	2.734312	542.4
	75 47 18.426	448.7	69 27 11.1	249 26 27.0	Sandy	3.268346	1,855.0
Locust, 1907	38 08 48.188	1,485.8	274 18 07.0	94 18 30.7	Cox	2.971240	935.9
	75 47 56.754	1,382.1	300 22 34.1	120 23 00.1	Green	3.077066	1,194.2
			48 05 03.2	228 04 42.8	Sandy	3.033415	1,080.0
Fitz, 1907	38 09 17.417	537.0	348 38 38.7	168 38 43.7	Cox	2.996019	990.9
	75 47 26.439	643.8	39 19 16.8	219 18 58.1	Locust	3.066296	1,164.9
Wab, 1907	38 09 27.787	856.8	25 49 15.7	205 48 59.9	Cox	3.156669	1,434.4
	75 46 52.768	1,284.9	51 55 10.6	231 54 31.1	Locust	3.296523	1,979.4
			68 41 44.6	248 41 23.8	Fitz	2.944437	879.9
Supplementary points							
Staff, flagstaff, oyster house, Cox's Wharf, 1907	38 07 53.451	1,648.0	89 59 34.7	269 58 26.3	St. Pierre	3.430996	2,697.7
	75 49 32.825	799.4	136 25 19.9	316 24 44.0	Jean	3.312721	2,054.6
			237 49 24.5	57 50 03.5	Sandy	3.258777	1,814.6
Pole in pines, 1901	38 06 10.71	330.2	100 15 49	280 12 24	Thomas	3.91470	8,217
	75 51 21.85	532.3	147 03 36	327 02 34	Marsh	3.65324	4,500
Nest (eagles), 1901	38 05 18.77	578.8	148 29 20	328 27 57	Kelley	3.79664	6,261
	75 52 23.91	582.7	197 07 14	17 07 51	St. Pierre	3.69827	4,992
Monie Bethel Chapel, spire, 1901 [1]	38 11 14.96	461.3	34 37 23	214 35 45	Marsh	3.83313	6,810
	75 50 23.45	570.8	47 43 24	227 40 47	Kelley	3.92364	8,388
Rock Creek Church, spire, 1901 [1]	38 10 34.06	1,050.2	332 21 21	152 22 19	Kelley	3.69449	4,949
	75 56 12.57	305.9	351 06 18	171 06 48	Piney	3.87946	7,576
Pen, Pendleton's house, chimney, 1907	38 09 02.629	81.1	51 24 00.0	231 23 43.6	Cox	2.917118	826.3
	75 46 51.907	1,263.9	74 15 27.5	254 14 47.4	Locust	3.214989	1,640.5
			118 28 29.0	298 28 07.6	Fitz	2.980663	956.5
Barn, Ford's barn, cupola, 1907	38 08 04.527	139.6	86 21 13.8	266 18 58.3	St. Pierre	3.728746	5,354.8
	75 47 44.170	1,075.8	105 46 41.4	285 44 58.4	Jean	3.625430	4,221.1
			119 22 12.6	299 21 44.5	Sandy	3.105102	1,273.8
			224 16 41.2	44 16 59.6	Green	3.015676	1,036.8
Cupola, Bennett's oysterhouse, 1907	38 08 08.520	262.7	83 24 37.7	263 22 55.7	St. Pierre	3.607112	4,046.8
	75 48 38.530	938.4	110 30 19.1	290 29 09.6	Jean	3.465925	2,923.6
			203 04 35.2	23 04 40.6	Sandy	2.736551	545.2
			253 10 08.3	73 11 00.2	Green	3.330251	2,139.2

Big Annemessex River

Principal points							
Geog, 1907	38 02 48.991	1,510.6	68 43 06.1	248 41 11.7	Flat Cap	3.686813	4,862.0
	75 49 25.509	622.0	108 16 14.6	288 14 27.0	Has	3.651624	4,483.6
Ford, 1907	38 04 04.315	133.0	345 38 40.1	165 38 55.1	Geog	3.379708	2,397.2
	75 49 49.885	1,216.1	43 55 07.5	223 53 28.1	Flat Cap	3.753915	5,674.3
			75 56 44.5	255 55 11.9	Has	3.577068	3,776.3
Moon, 1907	38 03 42.941	1,324.0	50 06 22.6	230 05 32.3	Geog	3.413824	2,593.1
	75 48 03.913	95.4	62 16 35.2	242 13 50.5	Flat Cap	3.867232	7,366.0
			87 38 56.1	267 36 18.2	Has	3.796019	6,252.0
			104 19 12.8	284 18 07.5	Ford	3.425861	2,666.0
Colburn, 1907	38 02 59.258	1,827.0	80 12 46.9	260 12 00.5	Geog	3.269765	1,861.1
	75 48 10.292	250.9	100 08 51.4	280 06 17.4	Has	3.791551	6,188.0
			186 35 11.6	6 35 15.5	Moon	3.132187	1,355.8

[1] No check on this position.

Pocomoke Sound

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Sam, 1898	37 54 44.031	1,357.5	81 26 57.2	261 26 11.9	Beacon (old)	3.260924	1,823.6
	75 53 05.359	130.9	247 32 33.5	67 34 24.7	East	3.679218	4,777.7
East, 1898	37 55 43.188	1,331.5	71 24 10.3	251 21 33.8	Beacon (old)	3.817069	6,562.5
	75 50 04.565	111.5	117 41 11.5	297 38 05.7	Janes Island Lighthouse	3.920634	8,329.8
			246 27 39.7	66 31 14.8	Scot	3.969219	9,315.8
			266 40 33.0	86 44 25.1	Wharf	3.965761	9,241.9
Watermelon Hummock, 1849	37 56 36.301	1,119.1	341 02 11.9	161 02 26.0	East	3.238426	1,731.5
	75 50 27.605	674.1	48 04 33.4	228 02 56.3	Sam	3.714270	5,179.3
			108 08 22.8	288 05 31.1	Janes Island Lighthouse	3.855518	7,170.0
Monkey (Va.), 1907	37 57 00.203	6.3	292 25 18.7	112 28 19.7	Saxis church	3.890961	7,779.7
	75 48 18.531	452.5	47 29 09.5	227 28 04.3	East	3.545698	3,513.2
			76 50 58.3	256 49 39.0	Watermelon Hummock	3.510078	3,236.5
Mos (Va.), 1907	37 53 52.842	1,629.1	116 57 26.6	296 54 38.1	East	3.875684	7,510.8
	75 45 30.442	743.8	144 36 48.7	324 35 05.3	Monkey	3.850451	7,086.8
			227 42 55.8	47 44 13.4	Saxis church	3.620296	4,171.5
Scot, 1901	37 57 43.715	1,347.7	344 00 08.9	164 00 40.0	Saxis church	3.651825	4,485.6
	75 44 14.699	358.8	14 34 24.7	194 33 38.2	Mos	3.866555	7,354.5
			77 19 13.9	257 16 43.9	Monkey	3.785469	6,102.0
Weste (Va.), 1898	37 51 46.290	1,427.2	170 35 12.1	350 34 50.3	Beacon (1898)	3.722615	5,279.8
	75 53 43.830	1,071.3	189 43 50.6	9 44 14.2	Sam	3.745076	5,560.0
			276 37 58.4	96 38 57.1	Muddy Marsh	3.371352	2,351.5
Old, 1901	37 57 59.909	1,847.1	30 32 31.5	210 31 20.0	Saxis church	3.747086	5,585.8
	75 41 27.864	680.3	83 01 29.4	262 59 46.8	Scot	3.613101	4,103.0
Oil (Va).,1907	37 56 34.223	1,055.1	60 37 34.7	240 35 57.7	Saxis church	3.645533	4,421.1
	75 40 46.339	1,131.6	112 51 28.2	292 49 20.1	Scot	3.741920	5,519.8
			159 00 35.5	339 00 10.0	Old	3.451733	2,829.7
Will, 1907	37 57 28.859	889.7	47 10 12.9	227 09 27.1	Oil	3.394022	2,477.5
	75 39 31.926	779.5	108 41 54.5	288 40 43.2	Old	3.475335	2,987.7
Summer (Va.), 1907	37 56 17.843	550.1	108 06 35.6	288 05 56.7	Oil	3.210888	1,625.1
	75 39 43.080	1,052.0	140 53 58.2	320 52 53.8	Old	3.608043	4,055.5
			187 05 21.2	7 05 28.1	Will	3.343680	2,206.4
Supplementary points							
Saxis church spire (Va.), 1901	37 55 23.857	735.5	47 44 15.9	227 42 58.3	Messongo	3.620040	4,169.1
	75 43 24.084	588.2	93 31 16.4	273 27 10.3	East	3.991186	9,799.1
Asbury church, 1898	37 58 29.019	894.7	315 56 04.8	135 57 11.6	Monkey	3.580959	3,810.3
	75 50 07.071	172.6	359 18 50.5	179 18 52.1	East	3.708696	5,113.2
			80 21 31.8	260 18 27.7	Janes Island Lighthouse	3.870384	7,419.7
Cup (Va.), 1907	37 56 17.308	533.6	90 21 19.2	270 20 10.3	Summer	3.436782	2,733.9
	75 37 51.124	1,248.4	96 57 52.6	276 56 04.8	Oil	3.634487	4,310.1
			120 53 23.5	300 51 10.2	Old	3.789931	6,165.0
			131 52 46.3	311 51 44.3	Will	3.519184	3,305.1
Wharf (Va.), 1907	37 56 00.401	12.4	32 47 24.8	212 46 21.2	Mos	3.670039	4,677.8
	75 43 46.755	1,141.8	105 33 01.9	285 30 14.8	Monkey	3.838065	6,887.6
			167 54 44.2	347 54 27.1	Scot	3.512892	3,257.6
			222 36 44.4	42 38 09.9	Old	3.699622	5,007.5
Crisfield, Emmanuel Church, spire, 1898	37 58 56.945	1,755.6	70 13 05.3	250 10 37.8	Janes Island Lighthouse	3.793725	6,219.1
	75 51 06.998	170.8	114 07 43.4	293 58 42.0	Holland Island Bar Lighthouse	4.370589	23,474.1
Crisfield, Mount Pleasant Church, spire, 1898	37 58 53.868	1,660.7	71 50 52	251 48 17	Janes Island Lighthouse	3.809610	6,450.7
	75 50 55.624	1,357.4	114 03 57	293 54 49	Holland Island Bar Lighthouse	4.375961	23,766.3

Maryland-Virginia Boundary, Tangier and Pocomoke Sounds

Principal points							
Horse Hammock, 1898	37 57 12.130	374.0	51 01 24.4	230 59 38.2	Shanks Hammock 2	3.734438	5,425.5
	75 59 37.754	921.7	260 19 44.8	80 22 31.5	Janes Island Lighthouse	3.826799	6,711.2
"A" Maryland-Virginia boundary corner	37 56 45.717	1,409.4	100 31 50.5	280 30 00.0	Horse Hammock	3.649557	4,462.3
	75 56 38.057	929.2					
Watkins Point Maryland-Virginia boundary corner	37 54 40.64	1,253.0	151 51 38	331 50 20	Janes Island Lighthouse	3.817744	6,572.7
	75 52 59.74	1,459.2					
"B" Maryland-Virginia boundary corner	37 54 24.22	746.7	265 15 00	85 17 34	Watkins Point	3.788506	6,144.8
	75 57 10.43	254.8					
Broad, 1923	37 55 40.587	1,251.3	203 46 55.3	23 47 14.4	Watermelon Hummock	3.273505	1,877.2
	75 50 58.607	1,431.3	266 31 06.9	86 31 40.1	East	3.121316	1,322.3

Maryland-Virginia Boundary, Tangier and Pocomoke Sounds—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Gap, 1923	37 57 19.882	613.0	262 49 09.0	82 51 36.3	Scot	3.770497	5,895.2
	75 48 14.301	349.1	42 05 43.2	222 04 35.4	East	3.603905	4,017.0
			52 40 05.6	232 38 24.7	Broad	3.702998	5,046.6
			67 34 43.2	247 33 21.4	Watermelon Hummock	3.546676	3,521.1
Drum (Va.), 1923	37 54 13.542	417.5	112 22 14.3	292 19 25.1	East	3.861489	7,269.2
	75 45 29.316	716.2	144 58 14.6	324 56 33.1	Gap	3.846163	7,017.2
			195 42 00.0	15 42 45.9	Scot	3.828095	6,731.2
Butler (Va.), 1923	37 56 08.532	263.0	43 56 10.0	223 54 44.0	Drum	3.692162	4,922.2
	75 43 09.518	232.4	85 37 37.9	265 33 22.7	East	4.007147	10,165.9
			106 29 38.3	286 26 30.9	Gap	3.889866	7,760.1
			151 32 05.9	331 31 25.8	Scot	3.523534	3,338.4
Buoy at C, Maryland-Virginia boundary, 1923	37 54 43.833	1,351.4	112 25 21.7	292 23 34.9	Broad	3.661837	4,590.3
	75 48 04.864	118.8	122 03 12.0	302 01 58.4	East	3.537714	3,449.2
			177 15 30.1	357 15 24.2	Gap	3.682749	4,816.7
			225 21 45.0	45 24 06.5	Scot	3.897410	7,896.1
			250 04 26.0	70 07 27.6	Butler	3.884884	7,671.6
			283 47 41.5	103 49 17.1	Drum	3.592506	3,913.0
Buoy at D, Maryland-Virginia boundary, 1923	37 56 28.362	874.4	113 24 06.3	293 22 33.8	Gap	3.602211	4,001.4
	75 45 43.881	1,071.5	279 11 59.5	99 13 34.4	Butler	3.581909	3,818.6
			355 06 25.5	175 06 34.4	Drum	3.620330	4,171.9
Smith Island back range, 1916	37 57 17.435	537.5	146 40 10.9	326 39 37.0	Ewell church spire	3.388609	2,446.9
	76 00 13.909	339.6	262 40 10.7	82 43 19.7	Janes Island Lighthouse	3.878532	7,560.2
			280 29 40.3	100 30 02.6	Horse Hammock	2.953138	897.7
Blizzard Island range, 1916	37 54 35.703	1,100.8	121 31 18	301 28 00	Horse Hammock	3.965295	9,232.0
	75 54 15.407	376.4	168 06 18	348 05 46	Janes Island Lighthouse	3.783778	6,078.2
			265 16 50	85 17 36	Watkins Point	3.268239	1,854.6

Delaware Line to Sinepuxent Bay

Principal points							
Daisy Marsh 2 (Del.), 1909	38 29 23.024	709.9					
	75 03 03.776	91.5					
Island (Del.), 1909	38 28 14.699	453.2	214 40 59.6	34 41 37.0	Daisy Marsh 2	3.408600	2,562.1
	75 04 03.934	95.4					
Fenwick Island Lighthouse (Del.), 1909	38 27 04.742	146.2	153 10 48.8	333 10 20.8	Island	3.383307	2,417.2
	75 03 18.946	459.4	184 55 41.0	4 55 50.4	Daisy Marsh 2	3.631407	4,279.6
South Hammock, 1909	38 25 39.280	1,211.1	200 31 25.2	20 32 11.2	Island	3.709035	5,117.2
	75 05 17.941	435.2	227 35 25.0	47 36 39.0	Fenwick Island Lighthouse	3.591955	3,908.0
Rodgers 2 (Del.), 1909	38 28 10.392	320.4	228 41 05.0	48 42 10.4	Daisy Marsh 2	3.530560	3,392.8
	75 04 48.294	1,170.7	263 03 11.9	83 03 39.9	Island	3.040882	1,098.7
			312 51 02.2	132 51 58.2	Fenwick Island Lighthouse	3.473639	2,976.0
			8 35 24.6	188 35 06.6	South Hammock	3.673228	4,712.2
Howard, 1909	38 24 11.305	348.6	137 50 19.1	317 49 16.2	South Hammock	3.563480	3,660.0
	75 03 36.661	889.5	184 35 33.6	4 35 44.6	Fenwick Island Lighthouse	3.729570	5,365.0
Wight 2, 1909	38 23 30.484	940.0	195 00 02.2	15 00 29.5	South Hammock	3.613996	4,111.5
	75 06 01.812	44.0	210 52 00.7	30 53 41.9	Fenwick Island Lighthouse	3.886360	7,697.7
			250 19 24.4	70 20 54.6	Howard	3.572921	3,740.4
Reedy, 1909	38 22 30.910	953.1	124 04 14.0	304 03 04.5	Wight 2	3.515841	3,279.8
	75 04 09.864	239.4	194 35 17.9	14 35 38.5	Howard	3.504979	3,198.7
Thorofare, 1908	38 21 14.343	442.3	180 15 51.5	0 15 52.0	Wight 2	3.623020	4,197.8
	75 06 02.610	63.4	212 58 52.1	33 00 22.7	Howard	3.813284	6,505.5
			229 12 43.8	49 13 53.8	Reedy	3.558065	3,614.6
Collier, 1908	38 20 53.576	1,651.9	108 14 59.6	288 14 10.0	Thorofare	3.310787	2,045.4
	75 04 42.606	1,034.5	158 19 58.2	338 19 09.1	Wight 2	3.716516	5,206.1
			194 49 57.5	14 50 17.8	Reedy	3.492012	3,104.6

Sinepuxent and Chincoteague Bays

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Gantt, 1908	38 20 28.938	892.2	201 24 12.8	21 24 26.8	Thorofare	3.177166	1,503.7
	75 06 25.210	612.3	253 02 07.0	73 03 10.7	Collier	3.415784	2,604.9
Hamilton, 1908	38 20 06.801	209.7	110 11 43.6	290 10 56.2	Gantt	3.296172	1,977.8
	75 05 08.778	213.2	147 53 14.5	327 52 41.0	Thorofare	3.390730	2,458.8
			203 46 50.1	23 47 06.3	Collier	3.197572	1,576.1
Ocean, 1908	38 19 27.371	843.9	144 31 15.7	324 30 41.1	Gantt	3.367594	2,331.3
	75 05 29.493	716.4	202 28 51.6	22 29 04.4	Hamilton	3.119179	1,315.8
Harmon, 1908	38 19 38.584	1,189.7	184 35 44.8	4 35 48.0	Gantt	3.192456	1,557.6
	75 06 30.349	737.2	246 17 05.4	66 17 55.9	Hamilton	3.335228	2,163.9
			283 09 30.7	103 10 08.4	Ocean	3.181298	1,518.1
Buffing, 1908	38 18 59.672	1,839.9	193 16 55.4	13 17 02.6	Harmon	3.090881	1,232.8
	75 06 42.009	1,020.5	244 07 41.0	64 08 25.9	Ocean	3.291742	1,957.7
Gull, 1908	38 18 44.617	1,375.7	112 54 35.6	292 54 07.6	Buffing	3.076513	1,192.6
	75 05 56.787	1,379.7	153 54 01.4	333 53 40.6	Harmon	3.267870	1,853.0
			206 41 57.3	26 42 14.2	Ocean	3.168978	1,475.6
Inkquill, 1908	38 18 13.471	415.4	199 58 50.9	19 59 04.1	Buffing	3.180645	1,515.8
	75 07 03.329	80.9	239 17 00.7	59 17 41.9	Gull	3.274260	1,880.4
Seaside, 1908	38 17 57.205	1,763.8	113 23 30.1	293 23 00.5	Inkquill	3.101576	1,263.5
	75 06 15.602	379.1	161 34 47.0	341 34 30.6	Buffing	3.307526	2,030.1
			197 21 47.6	17 21 59.2	Gull	3.185175	1,531.7
Beach, 1908	38 17 18.431	568.3	157 07 30.1	337 07 11.8	Inkquill	3.265285	1,842.0
	75 06 33.860	822.7	200 21 35.5	20 21 46.8	Seaside	3.105585	1,275.2
Ellpow, 1908	38 17 36.729	1,132.5	230 49 36.9	50 50 12.4	Inkquill	3.253751	1,793.7
	75 08 00.559	13.6	256 05 13.9	76 06 19.0	Seaside	3.419535	2,627.5
			284 58 59.4	104 59 53.2	Beach	3.338689	2,181.2
Shore, 1908	38 16 20.700	638.2	150 22 43.6	330 22 09.5	Ellpow	3.430845	2,696.8
	75 07 05.708	138.7	203 29 59.3	23 30 19.0	Beach	3.288042	1,941.1

Fassett, 1908	38 16 34.843	1,074.3	190 29 39.8	10 29 48.8	Ellpow	3.287944	1,940.6
	75 08 15.104	367.2	241 20 55.8	61 21 58.6	Beach	3.447748	2,803.8
			284 29 17.7	104 30 00.7	Shore	3.241118	1,742.3
Bar, 1908	38 15 34.216	1,055.0	150 57 11.0	330 56 44.5	Fassett	3.330077	2,138.3
	75 07 32.390	787.5	204 20 52.6	24 21 09.1	Shore	3.196786	1,573.2
Nellys, 1908	38 15 56.715	1,748.7	204 38 16.8	24 38 30.5	Fassett	3.111723	1,293.4
	75 08 37.286	906.4	251 36 56.2	71 37 52.9	Shore	3.370294	2,345.8
			293 43 46.1	113 44 26.3	Bar	3.236407	1,723.5
Sanpoi, 1908	38 14 52.493	1,618.5	200 43 49.8	20 44 08.9	Nellys	3.325777	2,117.3
	75 09 08.115	197.3	241 03 41.5	61 04 40.8	Bar	3.424774	2,659.3
Mud, 1908	38 14 30.951	954.3	113 05 58.1	293 05 18.4	Sanpoi	3.228762	1,693.4
	75 08 04.057	98.7	163 00 48.4	343 00 27.8	Nellys	3.441703	2,765.1
			201 32 17.3	21 32 36.9	Bar	3.321626	2,097.1
Salt, 1908	38 13 36.735	1,132.6	160 23 52.7	340 23 31.5	Sanpoi	3.394388	2,479.6
	75 08 33.904	824.7	203 28 10.5	23 28 29.0	Mud	3.260659	1,822.5
Ingraya, 1907	38 14 11.854	365.5	225 08 14.7	45 08 46.7	Sanpoi	3.249573	1,776.5
	75 09 59.900	1,456.8	258 11 01.7	78 12 13.4	Mud	3.459101	2,878.1
			297 21 48.2	117 22 41.4	Salt	3.372031	2,355.2
North Beach Life Saving Station, 1907	38 11 55.880	1,722.9	167 33 21.4	347 32 57.9	Ingraya	3.632800	4,293.4
	75 09 21.858	531.8	200 33 35.9	20 34 05.6	Salt	3.521308	3,321.3
Birch, 1907	38 12 51.012	1,572.7	225 48 32.5	45 49 37.7	Ingraya	3.553458	3,576.5
	75 11 45.345	1,103.2	253 08 26.2	73 10 24.6	Salt	3.687134	4,865.6
			295 57 01.0	115 58 29.7	North Beach Life Saving Station	3.589155	3,882.9
Beacon Clumps, 1907	38 08 12.428	383.2	185 51 04.1	5 51 26.5	Birch	3.936237	8,634.5
	75 12 21.527	524.3	212 23 34.2	32 25 25.2	North Beach Life Saving Station	3.911723	8,160.6
Ricks, 1907	38 09 50.477	1,556.2	227 03 23.4	47 05 55.4	Birch	3.912423	8,173.8
	75 15 51.298	1,248.8	247 46 27.5	67 50 28.1	North Beach Life Saving Station	4.010157	10,236.6
			300 36 08.0	120 38 17.5	Beacon Clumps	3.773437	5,935.2
Handy Hammock, 1907	38 12 31.966	985.6	262 46 26.2	82 48 24.2	Birch	3.670168	4,679.2
	75 14 56.158	1,366.3	277 45 37.8	97 49 04.4	North Beach Life Saving Station	3.914319	8,209.5
			334 47 47.7	154 49 23.2	Beacon Clumps	3.946610	8,843.2
			15 05 17.3	195 04 43.2	Ricks	3.712383	5,156.8
Newport, 1907	38 14 11.913	367.3	310 10 50.7	130 12 05.8	Birch	3.587179	3,865.3
	75 13 46.736	1,136.6	28 43 40.8	208 42 57.9	Handy Hammock	3.545802	3,514.0
Neck, 1907	38 14 06.907	213.0	344 46 06.9	164 46 23.1	Birch	3.384752	2,425.2
	75 12 11.536	280.6	53 50 48.2	233 49 06.5	Handy Hammock	3.695507	4,960.3
			93 49 20.0	273 48 21.1	Newport	3.365564	2,320.4

42300°—25†—13

Sinepuxent and Chincoteague Bays—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Landlet, 1907	38 06 58.180	1,793.9	205 00 39.4	25 01 42.3	Ricks	3.768081	5,862.5
	75 17 33.114	806.7	253 11 14.3	73 14 26.6	Beacon Clumps	3.899106	7,926.9
Turnagain, 1907	38 05 28.562	880.6	114 49 49.3	294 47 17.9	Landlet	3.818566	6,585.2
	75 13 27.777	676.9	156 36 22.1	336 34 53.5	Ricks	3.944462	8,799.6
			197 42 34.3	17 43 15.2	Beacon Clumps	3.724597	5,303.9
Mill, 1907	38 03 13.618	419.9	204 07 28.0	24 08 46.5	Landlet	3.880069	7,587.0
	75 19 40.410	985.2	245 21 23.7	65 25 13.5	Turnagain	3.999580	9,990.3
Pope Island Life Saving Station (Va.), 1907	38 01 26.770	825.4	115 05 43.1	295 02 45.2	Mill	3.890674	7,774.5
	75 14 51.630	1,259.3	158 56 46.7	338 55 07.1	Landlet	4.039415	10,950.0
			195 19 39.6	15 20 31.3	Turnagain	3.888189	7,730.2
Wildcat (Va.), 1907	37 58 48.385	1,491.7	171 20 30.6	351 19 59.2	Mill	3.917611	8,272.0
	75 18 49.333	1,204.0	229 52 53.0	49 55 19.4	Pope Island Life Saving Station	3.879760	7,581.6
Long Point (Va.), 1907	38 00 25.000	770.8	218 05 00.6	38 06 43.6	Mill	3.819955	6,606.2
	75 22 27.540	671.9	260 14 36.2	80 19 17.1	Pope Island Life Saving Station	4.052429	11,283.1
			299 12 24.1	119 14 38.4	Wildcat	3.785403	6,101.0
Assateague Lighthouse (Va.), 1849	37 54 40.092	1,236.1	171 31 50.7	351 31 10.8	Long Point	4.031467	10,751.4
	75 21 22.634	553.0	206 02 36.8	26 04 11.1	Wildcat	3.930569	8,521.4
Chester (Va.), 1902	37 56 59.260	1,827.2	222 36 23.0	42 38 50.2	Long Point	3.935568	8,621.2
	75 26 26.765	653.5	253 11 32.8	73 16 14.2	Wildcat	4.066768	11,661.9
			299 59 19.8	120 02 26.7	Assateague Lighthouse	3.933368	8,577.6
Supplementary points							
Isle of Wight Life Saving Station, tower, 1909	38 24 12.182	375.6	15 29 10.4	195 28 48.3	Reedy	3.510574	3,240.2
	75 03 34.222	830.3	33 18 40.7	213 17 08.6	Thorofare	3.816941	6,560.6
			70 15 53.7	250 14 22.0	Wight 2	3.580383	3,805.2
			136 52 24.5	316 51 20.1	South Hammock	3.565869	3,680.2
			183 58 57.6	3 59 07.1	Fenwick Island Lighthouse	3.727020	5,333.6
Convent water tower, 1908	38 20 37.517	1,156.8	27 01 24.8	207 01 12.5	Hamilton	3.026583	1,063.1
	75 04 48.889	1,187.4	83 33 23.7	263 32 23.9	Gantt	3.371812	2,354.0
			122 23 36.3	302 22 50.5	Thorofare	3.326309	2,119.9
			197 07 32.0	17 07 35.9	Collier	2.714440	518.1
Ocean City water tower, 1908	38 19 47.007	1,449.4	81 40 31.6	261 39 46.4	Harmon	3.253444	1,792.4
	75 05 17.332	421.0	128 06 41.6	308 05 59.5	Gantt	3.321195	2,095.1
			198 47 57.5	18 48 02.8	Hamilton	2.809379	644.7
Buffington windmill, 1908	38 18 55.785	1,720.0	242 43 07.1	62 43 55.2	Ocean	3.327415	2,125.3
	75 06 47.253	1,147.9	285 41 01.1	105 41 32.4	Gull	3.104991	1,273.5
			336 56 06.8	156 56 26.4	Seaside	3.292950	1,963.1
Longwell's windmill, 1908	38 15 18.646	574.9	218 43 50.5	38 44 14.5	Nellys	3.177468	1,504.8
	75 09 16.013	389.3	259 12 08.4	79 13 12.6	Bar	3.409042	2,564.7
			310 02 24.7	130 03 09.3	Mud	3.359001	2,285.6
Guilbert's cupola, 1907	38 08 57.830	1,783.0	231 15 02.3	51 15 53.7	Ricks	3.413942	2,593.8
	75 17 14.395	350.5	281 04 47.5	101 07 48.4	Beacon Clumps	3.861398	7,267.7
			319 25 57.2	139 28 17.2	Turnagain	3.928975	8,491.3
			7 02 47.1	187 02 35.6	Landlet	3.570212	3,717.2
Tizz, 1907	38 04 23.783	733.3	216 31 50.4	36 33 19.7	Landlet	3.772707	5,925.3
	75 19 57.901	1,411.3	258 06 11.4	78 10 12.0	Turnagain	3.987457	9,715.3
			306 08 05.7	126 11 14.5	Pope Island Life Saving Station	3.966113	9,249.4
			348 50 55.4	168 51 06.2	Mill	3.343400	2,205.0
Green Run Inlet Life Saving Station, flagstaff, 1907.	38 05 06.002	185.1	30 34 55.5	210 33 14.7	Pope Island Life Saving Station	3.894892	7,850.4
	75 12 07.876	192.0	113 36 25.2	293 33 04.5	Landlet	3.936834	8,646.4
			176 41 23.7	356 41 15.3	Beacon Clumps	3.760240	5,757.6
Maryland-Virginia (Pope Island), 1907	38 01 34.155	1,053.1	78 23 00.6	258 18 39.5	Long Point	4.023518	10,556.5
	75 15 23.697	578.0	116 07 16.3	296 04 38.1	Mill	3.843283	6,970.8
			162 29 14.3	342 27 54.5	Landlet	4.020220	10,476.6
			201 20 48.2	21 21 59.7	Turnagain	3.889869	7,760.1
			286 13 43.8	106 14 03.5	Pope Island Life Saving Station	2.910925	814.6
Maryland-Virginia (Life Saving Station Beach), 1907.	38 01 37.173	1,146.1	20 10 48.1	200 10 45.1	Pope Island Life Saving Station	2.533652	341.7
	75 14 46.797	1,141.4	84 06 01.7	264 05 39.0	Maryland-Virginia (Pope Island)	2.956529	904.8
			112 34 45.5	292 31 44.5	Mill	3.889453	7,752.7
Money (Va.), 1907	38 00 50.231	1,548.7	229 55 25.0	49 57 37.8	Mill	3.836920	6,869.4
	75 23 16.006	390.4	263 15 18.7	83 20 09.6	Maryland-Virginia (Pope Island)	4.064452	11,599.8
			303 20 25.4	123 20 55.2	Long Point	3.150843	1,415.3
			346 21 32.0	166 22 41.7	Assateague Lighthouse	4.069770	11,742.8
Maryland-Virginia (railroad), 1907[1]	38 00 51.00	1,572.5	321 30 06	141 30 06	Money	1.483359	30.434
	75 23 16.78	409.3					
Grace M. E. Church (Va.), 1907	38 00 43.316	1,335.5	158 34 41.9	338 34 39.8	Money	2.359891	229.0
	75 23 12.576	306.8	228 08 02.2	48 10 13.0	Mill	3.841740	6,946.1
			297 12 00.8	117 12 28.5	Long Point	3.091774	1,235.3
			34 28 05.4	214 26 05.9	Chester	3.923109	8,377.4

[1] No check on this position.

Lower Potomac River (to Ragged Point)

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
St. Michaels Catholic Church, spire, 1898	38 07 17.371	535.6	231 12 09.5	51 19 22.6	Richland	4.339676	21,861.3
	76 22 02.321	56.5	272 35 17.3	92 45 27.8	Holland Island 2	4.382214	24,110.9
			283 45 18.5	103 55 20.9	Holland Island Bar Lighthouse	4.389245	24,504.5
			336 42 48.5	156 44 28.6	Point Lookout Lighthouse	3.999915	9,998.0
Bitt (Va.), 1901	37 57 00.510	15.7	176 04 48.3	356 04 15.3	St. Michaels Catholic Church, spire	4.280207	19,063.7
	76 21 09.818	215.3	195 04 06.1	15 05 12.9	Point Lookout Lighthouse	4.007963	10,185.0
Hog Island 2 (Va.), 1901	38 00 42.717	1,317.1	214 39 01.0	34 42 34.0	St. Michaels Catholic Church, spire	4.170165	14,796.7
	76 27 47.705	1,163.7	256 24 15.6	76 29 28.2	Point Lookout Lighthouse	4.104886	12,731.7
			305 06 09.0	125 10 14.5	Bitt	4.075687	11,903.8
Yeocomico 2 (Va.), 1901	38 02 46.529	1,434.6	238 02 01.8	58 07 41.2	St. Michaels Catholic Church, spire	4.198494	15,794.1
	76 31 12.406	302.5	272 41 17.8	92 48 36.7	Point Lookout Lighthouse	4.240195	17,385.8
			305 52 05.6	125 58 17.2	Bitt	4.259715	18,185.1
			307 23 06.3	127 25 12.4	Hog Island 2	3.798279	6,284.6
Hall, 1901	38 03 36.437	1,123.4	304 05 26.0	124 06 54.6	Point Lookout Lighthouse	3.626523	4,231.8
	76 21 43.951	1,071.5	355 58 49.9	175 59 11.5	Bitt	4.087680	12,237.1
			58 54 27.4	238 50 43.3	Hog Island 2	4.015456	10,362.3
			83 42 47.6	263 36 57.2	Yeocomico 2	4.144405	13,944.6
Kitts Point 2, 1901	38 06 17.134	528.3	313 26 26.0	133 28 38.5	Hall	3.857528	7,203.2
	76 25 18.491	450.5	340 26 33.9	160 29 07.7	Bitt	4.260311	18,210.0
			19 26 45.3	199 25 13.3	Hog Island 2	4.038765	10,933.6
			53 03 32.9	232 59 54.7	Yeocomico 2	4.033301	10,796.9
Yeocomico 3 (Va.), 1901	38 02 46.39	1,430.2	253 33 07	73 33 07	Yeocomico 2	1.19921	15.8
	76 31 13.03	317.7	307 16 07	127 18 14	Hog Island 2	3.79893	6,294.0
			352 13 48	172 13 56	Thicket Point 2	3.32529	2,114.9
Howard (Va.), 1898	37 54 48.823	1,505.1	162 01 43.1	341 59 49.4	Point Lookout Lighthouse	4.164604	14,608.4
	76 16 15.403	376.2	221 40 06.7	41 47 34.2	Holland Island Bar Lighthouse	4.363130	23,074.4
			296 02 46.6	116 05 58.8	Smith Point Lighthouse	3.930055	8,512.5
Lynch 2 (Va.), 1901	38 02 59.795	1,843.7	235 22 28.3	55 26 11.5	Kitts Point 2	4.030048	10,716.4
	76 31 20.436	498.3	265 21 18.1	85 27 13.5	Hall	4.149225	14,100.2
			306 32 06.1	126 38 22.5	Bitt	4.269155	18,584.7
			309 08 55.2	129 11 06.2	Hog Island 2	3.825537	6,691.7

St. George 3, 1901	*38*	*06*	*09.558*	*294.7*	*267*	*08*	*34.1*	*87*	*10*	*33.3*	*Kitts Point 2*	3.673290	4,712.9
	76	28	31.690	772.2	295	22	37.1	115	26	48.6	Hall	4.041460	11,001.7
					353	55	19.2	173	55	46.2	Hog Island 2	4.005785	10,134.1
					35	07	12.1	215	05	28.0	Lynch 2	3.854413	7,151.8
Sandy Point 2, (Va.), 1901	38	04	28.336	873.7	239	26	00.1	59	28	14.0	St. Geoerge 3	3.788194	6,140.4
	76	32	08.690	211.8	251	24	50.9	71	29	04.0	Kitts Point 2	4.023001	10,543.9
					336	41	03.0	156	41	32.8	Lynch 2	3.473132	2,972.6
Piney Point Lighthouse, 1858	38	08	07.206	222.2	307	10	19.3	127	12	20.5	St. George 3	3.778235	6,001.2
	76	31	47.954	1,167.9	355	57	02.8	175	57	19.8	Lynch 2	3.977809	9,501.9
					4	16	59.5	184	16	46.7	Sandy Point 2	3.830406	6,767.2
Calvert 2, 1901	38	05	34.464	1,062.7	34	51	25.0	214	48	46.7	Hog Island 2	4.039770	10,959.0
	76	23	30.952	754.3	65	19	18.4	245	14	33.7	Yeocomico 2	4.092813	12,382.6
					67	25	04.4	247	20	14.8	Lynch 2	4.093332	12,397.4
					98	25	32.5	278	22	26.9	St. George 3	3.869658	7,407.3
					116	40	13.3	296	39	06.9	Kitts Point 2	3.467166	2,932.0
					324	21	47.0	144	22	53.0	Hall	3.650990	4,477.0
					347	38	49.4	167	40	16.8	Bitt	4.210075	16,220.9
Coan 2 (Va.), 1901	37	59	25.777	794.7	145	30	38.8	325	29	57.7	Hog Island 2	3.459131	2,878.3
	76	26	40.894	997.9	202	09	08.7	22	11	05.8	Calvert 2	4.089012	12,274.7
					223	06	57.0	43	09	59.9	Hall	4.024958	10,591.5
					243	28	41.8	63	33	13.2	Point Lookout Lighthouse	4.079526	12,009.5
Thicket Point 2 (Va.), 1901	38	01	38.417	1,184.6	172	39	19.6	352	39	12.8	Yeocomico 2	3.325794	2,117.4
	76	31	01.305	31.8	224	10	13.0	44	13	44.4	Kitts Point 2	4.078697	11,986.6
					236	25	18.1	56	29	55.8	Calvert 2	4.119653	13,172.0
					254	57	48.2	75	03	31.6	Hall	4.148270	14,069.2
St. Mary "A", 1901	38	06	17.772	548.0	270	16	58.9	90	18	35.3	Kitts Point 2	3.580326	3,804.7
	76	27	54.654	1,331.6	27	51	40.9	207	49	45.8	Thicket Point 2	3,988603	9,741.0
					39	25	34.9	219	23	28.0	Lynch 2	3.897644	7,900.3
					74	19	34.9	254	19	12.2	St. George 3	3.971847	9,372.3
Ragged Point 2 (Va.), 1901	38	08	59.380	1,830.9	282	34	17.3	102	37	19.9	Piney Point Lighthouse	3.867827	7,376.1
	76	36	43.568	1,060.8	293	33	55.0	113	38	58.8	St. George 3	4.116433	13,074.7
					321	16	16.7	141	19	06.3	Sandy Point 2	4.029743	10,708.9
Tower Hill 2, 1901	38	12	22.479	693.1	331	30	30.4	151	32	18.8	Piney Point Lighthouse	3.952020	8,954.1
	76	34	43.343	1,054.6	345	32	25.9	165	34	01.4	Sandy Point Lighthouse	4.178870	15,096.3
					25	03	23.6	205	02	09.3	Ragged Point 2	3.839607	6,912.1
Coles Point 2 (Va.), 1901	38	09	12.036	371.1	217	08	20.5	37	10	13.5	Tower Hill 2	3.867313	7,367.4
	76	37	46.165	1,123.9	282	52	34.6	102	56	15.9	Piney Point Lighthouse	3.951762	8,948.7
					284	21	20.8	104	21	59.6	Ragged Point 2	3.196807	1,573.3
Lynch Point 3 (Va.), 1908	38	02	59.608	1,837.7	156	44	56.8	336	44	27.1	Sandy Point 2	3.473860	2,977.6
	76	31	20.465	499.0	175	57	44.4	355	57	27.5	Piney Point Lighthouse	3.978068	9,507.5
					265	19	55.2	85	25	50.8	Hall	4.149263	14,101.4

Lower Potomac River (to Ragged Point)—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
St. George 4, 1908	38 06 09.548	294.4	295 22 32.1	115 26 43.8	Hall	4.041450	11,001.5
	76 28 31.684	772.0	35 06 02.8	215 04 18.7	Lynch Point 3	3.854713	7,156.7
			59 28 25.7	239 26 11.9	Sandy Point 2	3.788191	6,140.3
			127 12 26.0	307 10 24.9	Piney Point Lighthouse	3.778257	6,001.5
Kitts Point 3, 1908	38 06 17.470	538.7	313 28 36.5	133 30 49.2	Hall	3.858144	7,213.5
	76 25 18.665	454.7	55 21 18.0	235 17 34.9	Lynch Point 3	4.030301	10,722.6
			87 02 36.2	267 00 37.1	St. George 4	3.672936	4,709.1
Calvert 4, 1908	38 05 33.133	1,021.6	324 34 18.8	144 35 23.6	Hall	3.644935	4,415.0
	76 23 28.931	704.9	67 39 24.5	247 34 33.7	Lynch Point 3	4.094475	12,430.1
			98 40 47.7	278 37 40.8	St. George 4	3.872844	7,461.8
			117 05 19.5	297 04 11.8	Kitts Point 3	3.477546	3,002.9
Caffee, 1919	38 12 20.110	620.1	38 40 46.6	218 38 48.9	Welsh	3.870299	7,418.2
	76 34 38.790	943.8	64 59 40.4	244 55 03.3	Murray	4.080638	12,040.3
			109 15 49.3	289 13 07.0	Lothrop	3.829926	6,759.7
Ragged Point 3 (Va.), 1919	38 08 57.274	1,765.9	106 27 43.8	286 27 04.2	Welsh	3.212031	1,629.4
	76 36 45.025	1,096.3	206 09 12.4	26 10 30.5	Caffee	3.843105	6,968.0
			282 01 14.3	102 04 17.7	Piney Point Lighthouse	3.869055	7,397.0
Mauldin, 1919	38 09 17.281	532.8	334 50 30.8	154 50 56.4	Piney Point Lighthouse	3.377846	2,387.0
	76 32 29.620	721.2	84 21 25.5	264 18 47.7	Ragged Point 3	3.795821	6,249.2
			88 53 03.8	268 49 46.4	Welsh	3.891125	7,782.6
			150 51 44.4	330 50 24.6	Caffee	3.809865	6,454.5
Snake (Va.), 1919	38 07 53.239	1,641.5	162 41 08.5	342 40 52.9	Ragged Point 3	3.315573	2,068.1
	76 36 19.749	481.0	245 09 51.7	65 12 13.9	Mauldin	3.790561	6,173.9
			266 15 16.4	86 18 04.2	Piney Point Lighthouse	3.821732	6,633.3
Sandy Point 4 (Va.), 1919	38 04 26.437	815.1	136 07 01.6	316 04 26.2	Snake	3.946928	8,849.7
	76 32 07.870	191.8	184 04 32.0	4 04 44.3	Piney Point Lighthouse	3.834044	6,824.1
St. George 5, 1919	38 06 07.251	223.6	59 54 49.6	239 52 33.9	Sandy Point 4	3.792180	6,197.0
	76 28 27.879	679.2	105 54 37.9	285 49 46.7	Snake	4.077374	11,950.2
			127 12 38.7	307 10 35.2	Piney Point Lighthouse	3.786620	6,118.1

Hog Island 4 (Va.), 1919	38	00	48.884	1,507.2	137	35	14.0	317	32	39.0	Sandy Point 4	3.958479	9,088.2
	76	27	56.385	1,375.5	175	31	48.2	355	31	28.8	St. George 5	3.993255	9,845.9
					257	26	43.1	77	32	01.0	*Point Lookout Lighthouse*	4.110420	12,895.0
Hall 2, 1919	38	03	36.588	1,128.1	304	11	00.7	124	12	29.1	Point Lookout Lighthouse	3.626338	4,230.0
	76	21	43.733	1,066.1	60	23	35.1	240	19	45.5	Hog Island 4	4.019351	10,455.6
					95	49	18.8	275	42	53.9	Sandy Point 4	4.184454	15,291.6
					115	17	01.5	295	12	52.3	St. George 5	4.037034	10,890.2
Lee (Va.), 1920	37	56	42.766	1,318.5	124	21	13.5	304	16	33.2	Hog Island 4	4.129060	13,460.5
	76	20	20.841	508.9	171	00	01.5	350	59	10.5	Hall 2	4.111199	12,918.1
					188	06	07.1	8	06	44.4	Point Lookout Lighthouse	4.020622	10,486.3
					297	57	30.0	118	03	13.1	Smith Point Lighthouse	4.188903	15,449.1
Block (Va.), 1919	38	09	09.263	285.6	194	17	12.9	14	18	05.4	Lothrop	3.922783	8,371.1
	76	40	26.067	634.7	235	07	32.4	55	11	07.1	Caffee	4.012792	10,298.9
					268	36	26.9	88	38	03.8	Welsh	3.582105	3,820.4
Ragged Point Lighthouse (Va.), 1901	38	09	16.134	497.4	200	26	34.8	20	27	28.6	Caffee	3.782045	6,054.0
	76	36	05.700	138.8	269	35	47.3	89	38	00.8	Mauldin	3.721075	5,261.1
					288	41	05.3	108	43	44.4	Piney Point Lighthouse	3.821273	6,626.3
					7	37	24.6	187	37	15.9	Snake	3.411393	2,578.7
Firing Point Front Range, Trial, 1919	38	08	03.580	110.4	328	59	06.2	149	00	00.8	St. George 5	3.621662	4,184.7
	76	29	56.376	1,373.0	25	35	00.6	205	33	39.4	Sandy Point 4	3.870525	7,422.1
					88	04	37.7	268	00	41.0	Snake	3.970453	9,342.3
					92	21	55.3	272	20	46.4	Piney Point Lighthouse	3.434518	2,719.7
Firing Point Front Range, 1919	38	08	00.849	26.2	135	21	55	315	21	53	Firing Point Front Range, Trial	2.073168	118.35
	76	29	52.962	1,289.8									
Piney Point Front Range, Trial, 1919	38	08	02.230	68.8	306	08	23.1	126	10	26.0	St. George 5	3.778773	6,008.6
	76	31	47.037	1,145.5	4	21	51.8	184	21	38.9	Sandy Point 4	3.824303	6,672.7
					87	38	00.6	267	35	12.2	Snake	3.822662	6,647.6
Piney Point, Front Range, 1919	38	08	02.947	90.9	317	00	02	137	00	03	Piney Point, Front Range, Trial	1.480294	30.22
	76	31	47.883	1,166.1									
4,000-yard Rear Range, 1919	38	06	55.074	1,698.0	46	58	33.9	226	56	29.7	Sandy Point 4	3.827013	6,714.5
	76	28	46.476	1,132.2	99	15	54.4	279	11	14.7	Snake	4.048649	11,185.3
					116	43	27.6	296	41	35.6	Piney Point Lighthouse	3.694450	4,948.2
4,000-yard front range, trial, 1919	38	06	50.011	1,541.9	47	26	16.3	227	24	14.3	Sandy Point 4	3.815743	6,542.5
	76	28	50.165	1,222.1	100	07	57.5	280	03	20.0	Snake	4.046223	11,123.0
					118	48	33.9	298	46	44.1	Piney Point Lighthouse	3.693852	4,941.4
4,000-yard front range, 1919	38	06	50.352	1,552.5	330	49	04	150	49	04	4,000-yard front range, trial	1.080807	12.045
	76	28	50.406	1,227.9									
8,000-yard front range, trial, 1919	38	06	56.478	1,741.3	16	21	06.4	196	19	42.3	Hog Island 4	4.072277	11,810.7
	76	25	40.075	976.2	63	56	54.3	243	52	55.1	Sandy Point 4	4.022059	10,521.0
					69	38	44.7	249	37	01.2	St. George 5	3.639563	4,360.8

Lower Potomac River (to Ragged Point)—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
8,000-yard front range, 1919	38 07 01.409	43.4	329 37 21	149 37 23	8,000-yard front range, trial	2.246092	176.235
	76 25 43.733	1,065.3					
8,000-yard rear range, 1919	38 07 24.445	753.7	16 50 15.1	196 48 41.7	Hog Island 4	4.105215	12,741.3
	76 25 25.092	611.2	60 49 08.2	240 44 59.7	Sandy Point 4	4.050937	11,244.4
			61 53 29.2	241 51 36.4	St. George 5	3.703210	5,049.1
12,000-yard front range, trial, 1919	38 06 10.482	323.2	33 04 10.0	213 01 26.8	Hog Isalnd 4	4.072954	11,829.2
	76 23 31.786	774.4	75 44 05.3	255 38 47.0	Sandy Point 4	4.113250	12,979.3
			89 14 03.8	269 11 01.1	St. George 5	3.858228	7,214.9
12,000-yard front range, 1919	38 06 11.170	344.4	290 45 00	110 45 01	12,000-yard front range, trial	1.777224	59.872
	76 23 34,084	830.4					
12,000-yard rear range, 1919	38 06 27.354	843.4	32 42 29.7	212 39 40.3	Hog Island 4	4.093389	12,399.1
	76 23 21.728	529.4	73 49 54.6	253 44 30.1	Sandy Point 4	4.125555	13,352.3
			85 16 34.0	265 13 25.1	St. George 5	3.874174	7,484.7
16,000-yard rear range, 1919	38 04 36.828	' 1,135.5	51 14 22.3	231 10 41.2	Hog Island 4	4.049919	11,218.1
	76 21 57.791	1,408.5	88 49 04.8	268 42 48.6	Sandy Point 4	4.172405	14,873.2
			106 22 44.4	286 18 43.8	St. George 5	3.995915	9,906.4
Rogers Creek (Va.), 1919	37 57 21.187	653.2	129 58 22.9	309 55 10.0	Hog Island 4	3.998844	9,973.4
	76 22 43.067	1,051.4	187 07 25.0	7 08 01.6	Hall 2	4.066863	11,664.4
			208 16 03.7	28 18 08.6	Point Lookout Lighthouse	4.018863	10,443.9
Bye (Va.), 1919	37 59 12.851	396.2	140 56 47.7	320 55 47.1	Hog Island 4	3.581291	3,813.2
	76 26 17.898	436.8	219 24 34.5	39 27 23.4	Hall 2	4.022345	10,528.0
			240 30 29.1	60 34 46.3	Point Lookout Lighthouse	4.068227	11,701.1
			303 16 09.4	123 18 21.6	Rogers Creek	3.797462	6,272.8
16,000-yard front range, trial, 1919	38 04. 21.686	668.6	3 35 23.7	183 35 03.1	Rogers Creek	4.113614	12,990.1
	76 22 09.750	237.6	52 12 35.1	232 09 01.5	Hog Island 4	4.029387	10,700.1
			90 37 36.8	270 31 28.1	Sandy Point 4	4.163741	14,579.4
			109 29 10.7	289 25 17.6	St. George 5	3.990019	9,772.8
16,000-yard front range, 1919	38 04 20.587	634.7	157 28 06	337 28 06	16,000-yard front range, trial	1.564666	36.70
	76 22 09.173	223.6					
20,000-yard front range, trial, 1919	38 03 02.983	92.0	334 57 36.1	154 57 51.9	Point Lookout Lighthouse	3.170367	1,480.4
	76 19 45.931	1,119.9	22 18 48.6	202 16 59.5	Rogers Creek	4.056519	11,389.9
			70 58 24.6	250 53 22.5	Hog Island 4	4.102281	12,655.5
20,000-yard front range, 1919	38 03 03.009	' 92.8	84 57 36	264 57 36	20,000-yard front range, trial	0.958086	9.08
	76 19 45.560	1,110.8					
20,000-yard rear range, 1919	38 03 14.959	461.2	349 21 46.3	169 21 54.4	Point Lookout Lighthouse	3.240637	1,740.4
	76 19 33.411	814.6	23 00 12.2	202 58 15.4	Rogers Creek	4.073652	11,848.2
			69 52 53.2	249 47 43.4	Hog Island 4	4.116172	13,066.9
Miller (Va.), 1920	37 54 49.067	1,512.8	120 32 55.8	300 30 26.2	Lee	3.838921	6,901.1
	76 16 17.433	425.8	162 12 16.3	342 10 23.8	Point Lookout Lighthouse	4.163939	14,586.1
			295 56 42.8	115 59 56.3	Smith Point Lighthouse	3.932490	8,560.3
Navy west (Va.), 1919	37 55 26.530	817.9	115 15 44.9	295 13 39.4	Lee	3.741246	5,511.2
	76 16 56.714	1,385.2	164 37 49.5	344 36 21.1	Point Lookout Lighthouse	4.120737	13,205.0
			299 30 20.4	119 33 58.0	Smith Point Lighthouse	3.997721	9,947.7
Navy east (Va.), 1919	37 54 46.819	1,443.5	119 26 46.1	299 24 06.6	Lee	3.861933	7,276.7
	76 16 01.320	32.2	160 50 10.1	340 48 07.7	Point Lookout Lighthouse	4.169574	14,776.6
			296 43 05.1	116 46 08.7	Smith Point Lighthouse	3.912586	8,176.8
Supplementary points							
Point Lookout belfry, finial, 1901	38 02 17.907	552.1	15 09 48.7	195 08 41.8	Bitt	4.005965	10,138.3
	76 19 20.200	492.5	63 45 48.7	243 41 17.3	Coan 2	4.078775	11,988.8
			124 38 57.0	304 37 28.4	Hall	3.629408	4,260.0
Point Lookout wharf, southwest corner, 1901[1]	38 02 19.74	608.6	273 34 29	93 34 32	Point Lookout Lighthouse	2.11340	130
	76 19 25.55	623.0	14 22 07	194 21 03	Bitt	4.00689	10,160
Cupola, near Bitt (Va.), 1901[1]	37 56 57.76	1,780.7	196 05 31	16 06 43	Point Lookout Lighthouse	4.013857	10,324.2
	76 21 17.59	429.5	248 23 48	68 23 53	Bitt	2.362214	230.3
Hall's house, middle chimney, 1901	38 03 41.156	1,268.9	355 56 17.0	175 56 39.1	Bitt	4.092849	12,383.7
	76 21 44.747	1,090.7	42 33 25.1	222 30 22.2	Coan 2	4.028773	10,685.0
			58 10 03.2	238 06 19.4	Hog Island 2	4.017939	10,421.7
			83 06 36.7	263 00 47.0	Yeocomico 2	4.144325	13,942.0
Barn, large unpainted, cupola, 1901	38 04 41.123	1,267.8	34 20 58	214 18 11	Coan 2	4.070893	11,773.2
	76 22 08.664	211.2	48 23 15	228 19 46	Hog Island 2	4.043845	11,062.3
			66 35 44	246 30 16	Thicket Point 2	4.150924	14,155.5
			75 07 17	255 01 42	Yeocomico 2	4.137293	13,718.1
Chimney B, housenear Kitts Point, 1901	38 06 17.540	540.8	21 34 02.9	201 32 19.9	Hog Island 2	4.045298	11,099.4
	76 25 00.451	11.0	45 39 28.3	225 35 45.8	Thicket Point 2	4.090118	12,306.0
			56 40 29.4	236 36 35.1	Lynch 2	4.044854	11,088.0
			90 06 41.3	270 04 53.8	St. Mary "A"	3.627800	4,244.2
Chimney A, house near Kitts Point, 1901	38 06 17.539	540.8	21 31 59.8	201 30 16.9	Hog Island 2	4.045193	11,096.7
	76 25 00.744	18.1	56 39 17.5	236 35 23.4	Lynch 2	4.044619	11,082.0
			88 21 05.5	268 20 54.6	Kitts Point 2	2.636074	432.6

[1] No check on this position.

Lower Potomac River (to Ragged Point)—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
Lewis' old factory, iron chimney, 1901	37 59 45.954	1,416.8	231 33 24	51 37 10	Hall	4.058331	11,437.5
	76 27 51.409	1,254.4	249 10 05	69 15 20	Point Lookout Lighthouse	4.125062	13,337.1
			289 52 07	109 52 50	Coan 2	3.262369	1,829.7
Travis Point two story wharfhouse, southeast chimney (Va.), 1901.	38 00 13.887	428.2	206 03 15.6	26 03 26.4	Hog Island 2	2.995390	989.4
	76 28 05.520	134.7	214 05 13.6	34 08 02.8	Calvert 2	4.076926	11,937.8
			236 06 06.8	56 10 01.9	Hall	4.049487	11,206.9
Lynch Point, store, middle chimney (Va.), 1901	38 02 43.537	1,342.2	249 02 30.3	69 02 36.4	Yeocomico 2	2.411218	257.8
	76 31 22.278	543.2	305 25 33.8	125 27 45.9	Hog Island 2	3.807782	6,423.7
			345 42 25.1	165 42 38.0	Thicket Point 2	3.316369	2,071.9
Piney Point Lighthouse belfry, finial, 1901 [1]	38 08 06.97	214.9	102 41 02	282 37 59	Ragged Point 2	3.86770	7,373.9
	76 31 48.11	1,171.5	208 09 50	28 09 50	Piney Point Lighthouse	0.91580-	8.2
Sandy Point, factory, north gable (Va.), 1901	38 04 15.74	485.3	178 11 00	358 11 00	Sandy Point 2	2.589292	388.4
	76 32 08.19	199.6	236 21 09	56 23 23	St. George 3	3.801840	6,336.4
			249 24 55	69 29 08	Kitts Point 2	4.027857	10,662.4
Sandy Pt. Wharf cupola, off. bldg. (Va.), 1901	38 04 03.45	106.3	181 24 17	1 24 18	Sandy Point 2	2.88511	768
	76 32 09.46	230.5	233 45 13	53 47 27	St. George 3	3.81816	6,579
			328 39 15	148 39 46	Lynch 2	3.36133	2,298
Beale's house, southeast chimney, 1901	38 09 02.510	77.4	338 22 06.7	158 22 23.9	Piney Point Lighthouse	3.263474	1,834.3
	76 32 15.720	382.8	89 10 30.8	269 07 45.4	Ragged Point 2	3.814412	6,522.5
			92 07 08.6	272 03 44.5	Coles Point 2	3.905853	8,051.1
Barn, old brick, new roof, river gable (Va.), 1901	38 04 39.552	1,219.5	190 23 13.7	10 23 43.4	Piney Point Lighthouse	3.813527	6,509.2
	76 32 36.144	880.9	245 00 02.2	65 02 33.0	St. George 3	3.817676	6,571.7
			297 19 46.0	117 20 02.9	Sandy Point 2	2.876926	753.2
Lokers' house pediment, front portico, 1901	38 12 51.806	1,597.3	28 03 19.2	208 01 42.3	Ragged Point 2	3.909532	8,119.6
	76 34 06.731	163.7	38 15 42.1	218 13 26.4	Coles Point 2	3.935892	8,627.6
			60 36 12.1	240 31 41.3	Herring Pond 2	4.087808	12,240.7
Dos Passes, flagstaff, 1901 [1]	38 02 36.10	1,113.0	208 41 15	28 41 19	Yeocomico 3	2.55827	362
	76 31 20.15	491.4	345 30 35	165 30 47	Thicket Point 2	3.26403	1,837

Smith Creek

Principal points														
Tab, 1908	38	06	41.374	1,275.7	317	07	06.3	137	07	55.8	Calvert 4	3.458040	2,871.0
	76	24	49.106	1,196.3	44	20	15.9	224	19	57.7	Kitts Point 3	3.013013	1,030.4
Sig, 1908	38	05	37.810	1,165.8	324	14	08.3	144	14	10.9	Calvert 4	2.249765	177.7
	76	23	33.194	808.9	115	27	18.5	295	26	13.4	Kitts Point 3	3.454226	2,845.9
					136	39	50.7	316	39	03.8	Tab	3.430522	2,694.8
Dago, 1908	38	06	30.980	955.2	324	53	06.8	144	53	36.0	Sig	3.301898	2,004.0
	76	24	20.500	499.4	73	37	24.8	253	36	48.9	Kitts Point 3	3.169388	1,477.0
					114	41	47.1	294	41	29.4	Tab	2.884826	767.1
Pier, 1908	38	06	57.197	1,763.5	23	19	19.6	203	19	10.8	Dago	2.944602	880.2
	76	24	06.196	150.9	64	59	04.4	244	58	37.9	Tab	3.062048	1,153.6
					100	48	47.0	280	48	26.8	Oak	2.909710	812.3
In, 1908	38	07	02.446	75.4	296	47	54.2	116	48	02.3	Pier	2.555082	359.0
	76	24	19.350	471.4	48	07	55.0	228	07	36.6	Tab	2.988314	973.5
Drum, 1908	38	07	05.795	178.7	26	33	15.3	206	33	11.9	Pier	2.471838	296.4
	76	24	00.757	18.4	77	09	33.0	257	09	21.5	In	2.667017	464.5
Enough, 1908	38	07	00.876	27.0	74	10	03.5	254	09	53.4	Pier	2.618774	415.7
	76	23	49.779	1,212.6	93	50	57.7	273	50	39.4	In	2.858521	722.0
					119	33	48.9	299	33	42.1	Drum	2.487776	307.5
Pipe, factory stack, 1908	38	06	55.148	1,700.4	27	00	46	207	00	36	Dago	2.92240	836.4
	76	24	04.907	119.5	68	28	42	248	28	15	Tab	3.06350	1,157.4
					104	34	24	284	34	03	Oak	2.93288	856.8
					122	36	31	302	36	22	In	2.62079	417.6
Oak, 1908	38	07	02.138	65.9	268	51	26.9	88	51	39.0	In	2.679000	477.5
	76	24	38.949	948.8	334	55	34.3	154	55	45.7	Dago	3.025557	1,060.6
					21	07	52.3	201	07	46.0	Tab	2.836560	686.4
Out, 1908	38	07	07.156	220.6	312	50	22.2	132	50	26.2	In	2.329539	213.6
	76	24	25.779	628.0	64	15	16.8	244	15	08.7	Oak	2.551682	356.2
Stung, 1908	38	07	15.651	482.6	297	05	46.6	117	05	59.6	Out	2.759667	575.0
	76	24	46.793	1,139.8	335	21	52.7	155	21	57.5	Oak	2.661211	458.4
Jutland, 1908	38	07	21.448	661.3	330	09	24.9	150	09	31.3	Out	2.705892	508.0
	76	24	36.157	880.7	6	31	01.7	186	31	00.0	Oak	2.777619	599.3
					55	23	47.7	235	23	41.1	Stung	2.497962	314.7
Flat, 1908	38	07	31.194	961.8	309	25	04.2	129	25	13.5	Jutland	2.675030	473.2
	76	24	51.165	1,246.2	347	28	16.9	167	28	19.6	Stung	2.690994	490.9
Flagpole, 1908	38	07	33.012	1,017.8	354	20	16.9	174	20	17.8	Jutland	2.554256	358.3
	76	24	37.609	916.0	22	40	53.3	202	40	47.6	Stung	2.763556	580.2
					80	21	34.8	260	21	26.4	Flat	2.524939	334.9

[1] No check on this position.

Smith Creek—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Ran 2, 1908	38 07 38.541	1,188.3	308 55 52.6	128 55 58.0	Flagpole	2.433381	271.3
	76 24 46.272	1,127.0	334 56 40.5	154 56 46.8	Jutland	2.764742	581.8
			1 01 49.3	181 01 49.0	Stung	2.848729	705.9
			27 44 47.6	207 44 44.6	Flat	2.408213	256.0
Grain, 1908	38 07 17.440	537.7	5 58 12.2	185 58 10.5	Pier	2.79765	627.6
	76 23 53.517	1,303.7	39 50 22.5	219 50 12.7	In	2.77963	602.1
Supplementary points							
Mid-channel Stake, 1908	38 06 46.647	1,438.2	335 08 19.9	155 08 25.6	Dago	2.726229	532.4
	76 24 29.686	723.2	71 02 11.8	251 01 59.8	Tab	2.699204	500.3
			154 42 54.3	334 42 48.6	Oak	2.722850	528.3
			207 20 00.8	27 20 07.2	In	2.739089	548.4
			240 22 54.6	60 23 09.1	Pier	2.818392	658.3
Dago Reference Station [1]	38 06 31.17	961.2	156 13 18	336 13 08	Oak	3.018385	1,043.2
	76 24 21.68	528.2					
Pine tree, 1908	38 06 22.906	706.2	233 02 02.5	53 02 21.7	Tab	2.976340	947.0
	76 25 20.164	491.2	298 04 07.5	118 05 13.6	Sig	3.470419	2,954.1
			347 41 47.6	167 41 48.6	Kitts Point 3	2.234360	171.5
Sawmill stack, 1908	38 07 02.86	88.3	271 28 22	91 28 44	Oak	2.93951	870
	76 25 14.65	357.0	275 58 36	95 59 18	Pier	3.22446	1,678
			316 47 39	136 47 55	Tab	2.95859	909
Red beacon, 1908	38 06 08.202	252.9	103 06 32	283 06 01	Kitts Point 3	3.10051	1,260.4
	76 24 28.280	689.0	153 36 56	333 36 43	Tab	3.057566	1,141.7
			171 07 01	351 06 54	Oak	3.226136	1,683.2
			187 24 36	7 24 41	In	3.227012	1,686.6
			304 54 53	124 55 26	Sig	3.214032	1,636.9
			306 46 49	126 47 26	Calvert 4	3.25663	1,805.6
Black beacon, 1908	38 06 02.150	66.3	108 11 38	288 11 02	Kitt Point 3	3.17990	1,513
	76 24 19.660	479.0	149 19 33	329 19 15	Tab	3.14804	1,406
			165 44 45	345 44 33	Oak	3.28067	1,908
			303 31 57	123 32 25	Sig	3.13300	1,358
			305 53 30	125 54 02	Calvert 4	3.18352	1,526

St. Marys River

Principal points														
Day, 1908	38	06	17.969	554.0	313	36	03.9	133	38	16.2	Hall	3.858497	7,219.3
	76	25	18.397	448.2	55	18	26.3	235	14	43.0	Lynch Point 3	4.030873	10,736.8
Labor, 1908	38	06	18.758	578.3	270	21	16.1	90	22	52.0	Day	3.578367	3,787.6
	76	27	53.856	1,312.1	299	00	18.2	119	04	06.4	Hall	4.013304	10,311.1
					39	22	23.9	219	20	16.5	Lynch Point 3	3.899875	7,941.0
Between, 1908	38	07	09.721	299.7	332	59	13.4	152	59	34.0	Day	3.253088	1,791.0
	76	25	51.785	1,261.4	62	09	33.4	242	08	18.1	Labor	3.526781	3,363.4
Pond, 1908	38	08	20.986	647.0	311	18	04.5	131	19	07.9	Between	3.522251	3,328.5
	76	27	34.439	838.7	318	50	44.9	138	52	08.8	Day	3.702132	5,036.5
					7	09	17.9	187	09	05.9	Labor	3.579571	3,798.1
Fort, 1908	38	08	15.000	462.5	343	26	01.8	163	26	17.0	Between	3.322187	2,099.8
	76	26	16.364	398.5	33	32	11.8	213	31	11.6	Labor	3.633405	4,299.4
					95	33	03.5	275	32	15.3	Pond	3.281097	1,910.3
Rod, 1908	38	09	01.254	38.7	349	43	34.4	169	43	40.9	Fort	3.161174	1,449.4
	76	26	26.978	656.9	52	55	25.7	232	54	44.0	Pond	3.313680	2,059.1
Thompson, 1908	38	09	15.851	488.7	284	47	08.1	104	47	51.3	Rod	3.246206	1,762.8
	76	27	36.980	900.4	313	41	50.4	133	42	40.1	Fort	3.433835	2,715.4
					357	54	19.0	177	54	20.6	Pond	3.228590	1,692.7
Grind, 1908	38	09	32.474	1,001.3	322	12	34.2	142	12	53.1	Rod	3.085656	1,218.0
	76	26	57.632	1,403.1	22	07	48.4	202	07	25.7	Pond	3.376464	2,379.4
					61	51	21.5	241	50	57.2	Thompson	3.036018	1,086.5
Kennedy, 1908	38	09	38.737	1,194.4	7	44	27.0	187	44	23.0	Rod	3.066815	1,166.3
	76	26	20.526	499.7	77	56	14.1	257	55	51.2	Grind	2.965559	923.8
Raley, 1908	38	09	16.235	500.6	51	02	32.6	231	02	18.1	Rod	2.866047	734.6
	76	26	03.518	85.7	110	48	47.7	290	48	14.3	Grind	3.149041	1,409.4
					149	10	13.6	329	10	03.1	Kennedy	2.907398	808.0
Chan, 1908	38	10	06.212	191.5	329	45	53.6	149	46	06.1	Kennedy	2.991442	980.5
	76	26	40.806	993.3	21	29	38.8	201	29	28.4	Grind	3.048426	1,118.0
Coppage, 1908	38	10	03.174	97.9	265	59	32.4	86	00	06.4	Chan	3.127704	1,341.8
	76	27	35.795	871.4	292	20	44.5	112	21	31.0	Kennedy	3.296930	1,981.2
					315	31	51.5	135	32	15.1	Grind	3.122647	1,326.3
Bello, 1908	38	10	30.513	940.8	322	30	36.7	142	30	51.3	Chan	2.975089	944.3
	76	27	04.414	107.4	354	43	38.8	174	43	43.0	Grind	3.254566	1,797.1
					42	11	06.7	222	10	47.3	Coppage	3.055964	1,137.5

[1] No check on this position.

St. Marys River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Gravel, 1908	38 10 24.200	746.2	31 03 26.0	211 03 17.5	Chan	2.811186	647.4
	76 26 27.085	659.3	102 05 36.4	282 05 13.3	Bello	2.968123	929.2
McKay, 1908	38 10 56.230	1,733.7	330 06 19.3	150 06 33.7	Gravel	3.056563	1,139.1
	76 26 50.409	1,226.9	351 22 48.9	171 22 54.8	Chan	3.193067	1,559.8
			23 15 48.0	203 15 39.3	Bello	2.936057	863.1
Deep, 1908	38 11 07.794	240.3	348 51 27.4	168 51 34.1	Gravel	3.136694	1,369.9
	76 26 37.961	923.9	40 21 23.0	220 21 15.3	McKay	2.670128	467.9
Brome, 1908	38 10 54.021	1,665.6	30 32 37.1	210 32 23.3	Gravel	3.028391	1,067.6
	76 26 04.796	116.7	93 30 54.1	273 30 25.9	McKay	3.046191	1,112.2
			117 45 09.0	297 44 48.5	Deep	2.960014	912.0
Calvert Monument, 1908	38 11 15.261	470.5	349 16 40.4	169 16 43.5	Brome	2.823817	666.5
	76 26 09.891	240.7	71 22 36.4	251 22 19.0	Deep	2.857859	720.9
Pagan, 1908	38 11 24.630	759.4	292 43 49.0	112 44 06.5	Calvert Monument	2.873616	747.5
	76 26 38.221	930.1	319 14 15.0	139 14 35.6	Brome	3.095501	1,246.0
			359 17 59.3	179 17 59.4	Deep	2.715281	519.1
Bend, 1908	38 11 43.686	1,347.0	31 22 16.3	211 22 02.7	Calvert Monument	3.011340	1,026.5
	76 25 47.934	1,166.4	64 21 24.3	244 20 53.2	Pagan	3.132728	1,357.5
Horseshoe, 1908	38 12 06.551	202.0	296 56 25.2	116 57 00.4	Bend	3.191943	1,555.8
	76 26 44.930	1,093.2	331 39 53.0	151 40 14.6	Calvert Monument	3.254453	1,796.6
			352 48 02.9	172 48 07.0	Pagan	3.114878	1,302.8
Brief, 1908	38 12 00.290	8.9	254 16 37.1	74 16 54.5	Horseshoe	2.852755	712.5
	76 27 13.115	319.1	322 19 08.7	142 19 30.3	Pagan	3.142765	1,389.2
West Hollow, 1908	38 11 33.004	1,017.6	190 29 29.5	10 29 33.5	Brief	2.932282	855.6
	76 27 19.518	475.0	219 07 55.1	39 08 16.5	Horseshoe	3.124996	1,333.5
			284 24 15.4	104 24 40.9	Pagan	3.016033	1,037.6
Martin, 1908	38 12 28.824	888.7	312 14 25.4	132 14 44.6	Horseshoe	3.009246	1,021.5
	76 27 16.011	389.5	355 25 13.5	175 25 15.3	Brief	2.945762	882.6
Tenuate, 1908	38 12 10.288	317.2	203 30 11.2	23 30 17.5	Martin	2.794639	623.2
	76 27 26.227	638.1	276 32 19.1	96 32 44.6	Horseshoe	3.004923	1,011.4
			314 00 58.7	134 01 06.8	Brief	2.647023	443.6
Soak, 1908	38 12 22.832	704.0	258 16 27.7	78 16 50.3	Martin	2.958683	909.2
	76 27 52.604	1,279.9	301 04 26.3	121 04 42.6	Tenuate	2.874659	749.3
Hammett, 1908	38 12 44.031	1,357.6	299 52 58.7	119 53 19.4	Martin	2.973592	941.0
	76 27 49.547	1,205.4	331 23 34.4	151 23 48.8	Tenuate	3.073730	1,185.0
			6 29 33.5	186 29 31.6	Soak	2.818114	657.8
McCoy, 1908	38 12 45.265	1,395.7	273 44 32.4	93 44 47.2	Hammett	2.765503	582.8
	76 28 13.451	327.2	289 56 02.9	109 56 38.4	Martin	3.172173	1,486.5
			323 44 49.2	143 45 02.1	Soak	2.933331	857.7
Supplementary points							
St. Inigoes Church cross, 1908	38 09 01.090	33.6	40 02 11.7	220 01 41.4	Fort	3.268564	1,855.9
	76 25 27.340	665.7	68 13 59.2	248 12 40.7	Pond	3.522810	3,332.8
			98 12 56.4	278 11 36.3	Thompson	3.503671	3,189.1
St. Mary's Episcopal Church cross, 1908	38 11 15.079	464.9	111 11 05.2	291 10 45.9	Pagan	2.911163	815.0
	76 26 06.994	170.2	149 49 02.9	329 48 39.5	Horseshoe	3.263869	1,836.0
			207 44 09.1	27 44 20.9	Bend	2.998505	996.6
Water tower (Porto Bello), 1908	38 10 32.720	1,008.9	282 09 18.4	102 09 49.4	Gravel	3.095933	1,247.2
	76 27 17.175	418.0	312 42 41.3	132 43 03.8	Chan	3.080940	1,204.9
			26 27 10.2	206 26 58.7	Coppage	3.007539	1,017.5
Price, 1908	38 08 07.241	223.3	18 06 11.0	198 05 58.2	Smack	3.210842	1,625.0
	76 28 00.652	15.9	56 12 15.7	236 11 34.8	Adams	3.287821	1,940.1
			90 55 27.7	270 55 03.7	Goose	2.976979	948.4
Arbuckle, 1908	38 09 19.644	605.7	353 05 52.9	173 05 56.1	Tarkbill	3.027665	1,065.8
	76 29 49.655	1,209.0	23 09 28.2	203 09 15.8	Robrecht	3.094949	1,244.4
			82 11 53.3	262 11 37.4	Lowell	2.800113	631.1

St. Inigoes Creek

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points							
Inigoes, 1908	38 09 34.086	1,051.0	326 56 56.1	146 57 05.2	Raley	2.817338	656.7
	76 26 18.227	443.8	11 53 11.7	191 53 06.3	Rod	3.014721	1,034.5
			87 02 13.1	267 01 48.8	Grind	2.982553	960.6
Cottage, 1908	38 09 37.050	1,142.4	23 53 07.5	203 53 00.3	Raley	2.846278	701.9
	76 25 51.845	1,262.2	81 54 15.1	261 53 58.8	Inigoes	2.812085	648.8
Church, 1908	38 09 30.224	931.9	49 01 40.7	229 01 28.1	Raley	2.818082	657.8
	76 25 43.120	1,049.8	97 56 06.2	277 55 44.5	Inigoes	2.936002	863.0
			134 44 14.5	314 44 09.1	Cottage	2.475731	299.0

St. Inigoes Creek—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Grason, 1908	38 09 41.887	1,291.5	34 44 38.2	214 44 31.9	Church	2.641118	437.6
	76 25 32.875	800.3	72 06 17.6	252 06 05.9	Cottage	2.686019	485.3
Dusky, 1908	38 09 45.640	1,407.2	294 13 06.7	114 13 13.2	Grason	2.450304	282.0
	76 25 43.441	1,057.6	359 03 32.0	179 03 32.2	Church	2.677042	475.4
			37 41 23.9	217 41 18.7	Cottage	2.524616	334.7
Rock, 1908	38 09 54.336	1,675.3	340 38 50.7	160 38 54.1	Grason	2.609391	406.8
	76 25 38.413	935.1	24 32 14.7	204 32 11.6	Dusky	2.469442	294.7
Smoke, 1908	38 09 45.737	1,410.2	71 09 58.2	251 09 49.4	Grason	2.565432	367.6
	76 25 18.582	452.4	89 43 07.5	269 42 52.2	Dusky	2.781882	605.2
			118 46 38.5	298 46 26.3	Rock	2.740972	550.8
Sleep, 1908	38 10 00.889	27.4	11 24 33.7	191 24 31.3	Smoke	2.678137	476.6
	76 25 14.709	358.1	70 42 18.5	250 42 03.9	Rock	2.786299	611.4
Chestnut, 1908	38 09 49.507	1,526.4	68 53 00.2	248 52 52.6	Smoke	2.508676	322.6
	76 25 06.220	151.4	100 45 38.3	280 45 18.5	Rock	2.901847	797.7
			149 30 25.9	329 30 20.7	Sleep	2.609876	407.3

St. George River

Principal points							
Smack, 1908	38 07 17.146	528.6	273 34 55.0	93 36 27.3	Between	3.562427	3,651.1
	76 28 21.381	520.8	292 14 38.1	112 16 31.0	Day	3.682740	4,816.6
Cherry, 1908	38 07 39.960	1,232.0	286 12 10.3	106 13 31.6	Between	3.523613	3,339.0
	76 28 03.415	83.2	302 09 02.5	122 10 44.3	Day	3.676567	4,748.6
			31 53 17.7	211 53 06.6	Smack	2.918255	828.4
Adams, 1908	38 07 32.235	993.9	261 13 50.4	81 14 29.6	Cherry	3.194016	1,563.2
	76 29 06.846	166.7	292 47 03.1	112 47 31.2	Smack	3.079602	1,201.2
Goose, 1908	38 08 07.735	238.5	314 11 02.4	134 11 24.7	Cherry	3.089425	1,228.6
	76 28 39.589	964.1	344 07 37.8	164 07 49.0	Smack	3.209943	1,621.6
			31 14 21.3	211 14 04.4	Adams	3.107251	1,280.1
Combs, 1908	38 08 17.378	535.8	285 04 41.3	105 05 09.3	Goose	3.057894	1,142.6
	76 29 24.891	606.2	342 28 28.7	162 28 39.8	Adams	3.164230	1,459.6
Straits, 1908	38 08 03.916	120.7	229 01 30.6	49 01 42.7	Combs	2.801395	633.0
	76 29 44.515	1,084.1	265 44 08.3	85 44 48.4	Goose	3.200186	1,585.6
			316 47 28.2	136 47 51.4	Adams	3.127135	1,340.1
Taylor, 1908	38 08 29.553	911.2	316 44 14.4	136 44 23.3	Combs	2.712227	515.5
	76 29 39.398	959.4	8 57 32.7	188 57 29.5	Straits	2.903208	800.2
Swan, 1908	38 08 18.636	574.6	238 19 57.0	58 20 10.8	Taylor	2.806988	641.2
	76 30 01.808	44.0	272 28 05.4	92 28 28.2	Combs	2.954183	899.9
			317 08 20.9	137 08 31.6	Straits	2.791798	619.2
Robrecht, 1908	38 08 42.537	1,311.5	298 26 14.4	118 26 33.1	Taylor	2.924579	840.6
	76 30 09.751	237.4	345 17 30.5	165 17 35.4	Swan	2.881886	761.9
Tarkhill, 1908	38 08 45.328	1,397.6	345 57 15.5	165 57 18.6	Taylor	2.700160	501.4
	76 29 44.395	1,081.0	27 15 40.0	207 15 29.3	Swan	2.966519	925.8
			82 03 59.7	262 03 44.1	Robrecht	2.794774	623.4
Lowell, 1908	38 09 16.865	520.0	322 13 43.2	142 14 02.3	Tarkhill	3.089928	1,230.1
	76 30 15.336	373.4	352 40 42.1	172 40 45.6	Robrecht	3.028214	1,067.1
Russell, 1908	38 09 08.245	254.2	231 05 01.8	51 05 10.1	Lowell	2.626467	423.1
	76 30 28.858	702.6	303 07 32.9	123 08 00.3	Tarkhill	3.111532	1,292.8
			329 35 15.7	149 35 27.5	Robrecht	2.963352	919.1
Wall, 1908	38 09 22.909	706.3	283 13 38.6	103 13 58.7	Lowell	2.910768	814.3
	76 30 47.893	1,166.0	314 17 28.0	134 17 39.8	Russell	2.811224	647.5
Shehan, 1908	38 09 34.126	1,052.2	323 50 22.9	143 50 32.8	Lowell	2.819007	659.2
	76 30 31.311	762.3	355 43 09.1	175 43 10.7	Russell	2.903219	800.2
			49 24 50.7	229 24 40.5	Wall	2.725579	531.6
Chadwick, 1908	38 09 49.282	1,519.5	309 27 19.8	129 27 34.2	Shehan	2.866470	735.3
	76 30 54.632	1,330.0	348 35 35.0	168 35 39.2	Wall	2.918835	829.5
Guither, 1908	38 09 44.006	1,356.8	238 50 22.2	58 50 29.0	Chadwick	2.497514	314.4
	76 31 05.684	138.4	289 59 56.4	110 00 17.6	Shehan	2.949643	890.5
			326 20 22.5	146 20 33.5	Wall	2.892915	781.5

Potomac River, Ragged Point to Lower Cedar Point

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Cupola 2, 1901	38 13 33.180	1,023.1	288 36 37.2	108 39 21.6	Tower Hill 2	3.833959	6,822.7
	76 39 09.105	221.4	337 13 38.2	157 15 08.3	Ragged Point 2	3.961652	9,154.9
			345 55 12.7	165 56 04.0	Coles Point 2	3.919125	8,300.9
Herring Pond 2 (Va.), 1901	38 09 36.708	1,131.9	204 21 06.7	24 22 30.6	Cupola 2	3.903298	8,003.8
	76 41 24.788	603.5	242 20 59.6	62 25 07.8	Tower Hill 2	4.042434	11,026.4
			278 06 52.3	98 09 07.4	Coles Point 2	3.730524	5,376.8
Higgins Point 2, 1901	38 13 58.093	1,791.3	284 17 18.1	104 18 35.0	Cupola 2	3.492776	3,110.1
	76 41 13.014	316.5	330 16 07.4	150 18 15.4	Coles Point 2	4.006688	10,155.2
			2 02 13.4	182 02 06.1	Herring Pond 2	3.906568	8,064.3
Upper Machodoc 2 (Va.), 1901	38 08 51.795	1,597.0	168 40 49.0	348 40 00.9	Higgins Point 2	3.983698	9,631.6
	76 39 55.283	1,346.1	187 22 35.9	7 23 04.5	Cupola 2	3.941926	8,748.3
			229 25 26.0	49 28 38.8	Tower Hill 2	3.999661	9,992.2
Barnes (Va.), 1901	38 08 47.707	1,471.0	93 53 28.4	273 52 41.3	Upper Machodoc 2	3.269661	1,860.6
	76 38 39.045	950.8	158 37 53.9	338 36 18.7	Higgins Point 2	4.011884	10,277.4
			175 15 05.4	355 14 46.9	Cupola 2	3.946072	8,832.3
Blakistone Island Lighthouse, 1860	38 12 26.756	825.0	241 05 09.0	61 07 18.8	Higgins Point 2	3.765511	5,827.9
	76 44 42.766	1,040.5	255 48 36.6	75 52 03.0	Cupola 2	3.922789	8,371.2
			317 24 01.9	137 26 04.3	Herring Pond 2	3.852527	7,120.8
Hollis 2 (Va.), 1901	38 10 01.214	37.4	192 26 14.1	12 26 39.3	Blakistone Island Lighthouse	3.662320	4,595.4
	76 45 23.445	570.8	219 49 01.7	39 51 36.8	Higgins Point 2	3.978262	9,511.8
			277 23 21.7	97 25 49.2	Herring Pond 2	3.767811	5,858.8
Currioman 2 (Va.), 1901	38 09 36.394	1,122.2	99 09 52.4	279 07 51.8	Hollis 2	3.682471	4,813.6
	76 42 08.229	200.3	144 24 36.1	324 23 00.5	Blakistone Island Lighthouse	3.810260	6,460.4
			189 26 55.7	9 27 30.1	Higgins Point 2	3.912754	8,180.0
			210 49 24.9	30 51 16.0	Cupola 2	3.929573	8,503.0
Blue Sow 2, 1901	38 14 04.651	143.4	277 22 41.3	97 23 21.0	Higgins Point 2	3.196808	1,573.3
	76 42 17.166	417.5	351 13 31.7	171 14 04.1	Herring Pond 2	3.922162	8,359.1
			358 29 35.0	178 29 40.3	Currioman 2	3.917713	8,274.0
			31 08 32.3	211 06 36.9	Hollis 2	3.942909	8,768.2
Nomini 2 (Va.), 1901	38 10 06.845	211.1	222 30 20.7	42 32 01.2	Blakistone Island Lighthouse	3.767370	5,852.9
	76 47 25.308	616.1	273 20 20.8	93 21 36.1	Hollis 2	3.472985	2,971.6
Cobb Point Bar Lighthouse, 1901	38 14 33.328	1,027.6	298 35 01.5	118 38 03.5	Blakistone Island Lighthouse	3.911170	8,150.2
	76 49 36.929	898.0	323 39 33.1	143 42 09.9	Hollis 2	4.017574	10,413.0
			338 41 42.8	158 43 04.2	Nomini 2	3.945392	8,818.4
Popes Creek 2 (Va.), 1901	38 11 51.311	1,582.1	236 03 25.0	56 06 34.0	Cobb Point Bar Lighthouse	3.951949	8,952.6
	76 54 42.342	1,030.3	265 39 51.5	85 46 02.3	Blakistone Island Lighthouse	4.165224	14,629.3
			286 48 36.3	106 53 06.4	Nomini 2	4.045849	11,113.4
Taylor (Va.), 1901	38 13 47.626	1,468.5	212 43 23.7	32 43 43.5	Bell's house cupola	3.160111	1,445.8
	76 58 00.335	8.1	293 43 17.3	113 49 50.0	Nomini 2	4.227495	16,884.8
			306 39 10.8	126 41 13.3	Popes Creek 2	3.778524	6,005.2
St. Margaret 2, 1901	38 15 04.503	138.8	348 14 41.3	168 15 29.8	Nomini 2	3.971925	9,374.0
	76 48 43.762	1,064.1	53 22 30.1	233 21 57.2	Cobb Point Bar Lighthouse	3.207094	1,611.0
			55 42 00.9	235 38 19.1	Popes Creek 2	4.023749	10,562.1
St. Margaret 2 reference station, 1908[1]	38 15 06.27	193.3	46 26 46	226 26 45	St. Margaret 2	1.89867	79.19
	76 48 41.40	1,006.6					
White Point 2 (Va.), 1901	38 15 25.293	779.9	277 38 52.7	97 43 54.8	Cobb Point Bar Lighthouse	4.078228	11,973.7
	76 57 44.930	1,092.4	326 02 18.6	146 04 11.6	Popes Creek 2	3.900539	7,953.1
Swan Point 2, 1901	38 17 28.640	883.1	302 10 36.5	122 14 15.1	Cobb Point Bar Lighthouse	4.006117	10,141.8
	76 55 29.925	727.2	353 38 52.1	173 39 21.6	Popes Creek 2	4.019741	10,465.0
			40 48 04.3	220 46 40.7	White Point 2	3.700987	5,023.3
Lower Cedar 2, 1901	38 20 31.451	969.8	320 04 23.4	140 06 23.7	Swan Point 2	3.866188	7,348.5
	76 58 43.998	1,068.4	339 51 42.7	159 54 12.4	Popes Creek 2	4.232477	17,079.6
			351 20 58.0	171 21 34.6	White Point 2	3.979929	9,548.4
Shell Bank (Va.), 1901	38 20 13.599	419.3	260 09 43.6	80 11 04.8	Lower Cedar 2	3.508558	3,225.2
	77 00 54.854	1,332.1	302 46 00.8	122 49 22.2	Swan Point 2	3.972692	9,390.6
			332 32 48.3	152 34 46.0	White Point 2	4.000696	10,016.0
Lower Cedar Point Lighthouse, 1901	38 20 24.452	754.0	79 49 56.7	259 49 09.1	Shell Bank	3.277498	1,894.5
	76 59 38.072	924.6	156 37 22.8	336 36 40.9	Persimmon 2	3.616822	4,138.3
			260 39 48.7	80 40 22.3	Lower Cedar 2	3.124106	1,330.8
			343 23 36.3	163 24 46.5	White Point 2	3.983404	9,625.1
Rosier 2 (Va.), 1901	38 16 48.699	1,501.6	174 44 39.6	354 44 15.2	Persimmon 2	4.020984	10,495.0
	77 00 06.111	148.5	179 06 12.5	359 06 06.2	Bluff 2	4.208018	16,144.3
			196 11 21.9	16 12 12.8	Lower Cedar 2	3.854432	7,152.1
			259 34 46.1	79 37 37.2	Swan Point 2	3.834062	6,824.4
Murray (Va.), 1919	38 09 34.804	1,073.1	97 17 33.9	277 14 17.2	Nomini 2	3.892749	7,811.8
	76 42 06.994	170.3	144 26 46.3	324 25 10.0	Blakistone Island Lighthouse	3.814098	6,517.8

[1] No check on this position.

Potomac River, Ragged Point to Lower Cedar Point—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Lothrop, 1919	38 13 32.358	997.7	31 42 39.1	211 40 44.2	Murray	3.934918	8,608.3
	76 39 01.136	27.6	62 43 35.9	242 38 24.2	Nomini 2	4.140126	13,807.8
			76 21 01.5	256 17 30.2	Blakistone Island Lighthouse	3.932133	8,553.3
Welsh (Va.) 1919	38 09 12.246	377.6	96 20 44.3	276 18 05.0	Murray	3.800356	6,314.7
	76 37 49.203	1,198.0	167 41 35.7	347 40 51.2	Lothrop	3.914280	8,208.8
Kaywood 2, 1919	38 14 02.682	82.7	280 58 40.5	101 00 42.9	Lothrop	3.690395	4,902.2
	76 42 18.991	461.9	357 58 29.2	177 58 36.6	Murray	3.917221	8,264.6
Kearney, 1919	38 13 57.179	1,763.0	283 46 45.9	103 48 05.2	Lothrop	3.506578	3,210.5
	76 41 09.330	226.9	9 50 42.0	189 50 06.3	Murray	3.914372	8,210.5
			95 43 28.9	275 42 45.8	Kaywood 2	3.231137	1,702.7
Clement, 1918	38 17 28.231	870.4	79 47 52.5	259 45 00.2	Rosier 2	3.836694	6,865.8
	76 55 28.095	682.8	131 50 28.0	311 47 53.0	Lower Cedar Point Lighthouse	3.911090	8,148.7
			302 15 03.7	122 18 41.1	Cobb Point Bar Lighthouse	4.004213	10,097.5
Admiral (Va.), 1918	38 15 22.200	684.5	163 25 40.6	343 24 29.8	Lower Cedar Point Lighthouse	3.987835	9,723.8
	76 57 43.871	1,066.6	220 19 48.3	40 21 12.4	Clement	3.707427	5,098.3
			277 12 39.7	97 17 41.1	Cobb Point Bar Lighthouse	4.076851	11,935.8
Meuse (Va.), 1918	38 11 43.442	1,339.4	145 11 45.1	325 09 45.8	Admiral	3.914667	8,216.1
	76 54 30.991	754.1	172 33 46.8	352 33 11.5	Clement	4.030243	10,721.2
			233 45 39.2	53 48 41.1	Cobb Point Bar Lighthouse	3.947730	8,866.0
			264 37 07.4	84 43 11.1	Blakistone Island Lighthouse	4.157597	14,374.6
			286 00 07.9	106 04 31.0	Nomini 2	4.032616	10,779.9
Crain, 1918	38 16 30.291	934.0	307 28 14.6	127 30 14.4	Cobb Point Bar Lighthouse	3.772742	5,925.7
	76 52 50.327	1,223.3	15 28 51.9	195 27 49.6	Meuse	3.962700	9,177.0
			73 37 52.8	253 34 51.1	Admiral	3.871486	7,438.5
			93 06 17.0	273 01 47.0	Rosier 2	4.025610	10,607.4
			114 59 40.8	294 58 03.1	Clement	3.626359	4,230.2
Caldwell, 1918	38 15 22.015	678.8	301 20 08.6	121 23 54.0	Blakistone Island Lighthouse	4.016261	10,381.5
	76 50 47.228	1,148.3	333 09 56.8	153 12 01.6	Nomini 2	4.036974	10,888.6
			38 56 38.6	218 54 20.1	Meuse	3.937648	8,662.6
			90 04 05.1	269 59 47.1	Admiral	4.005610	10,130.0
			119 42 29.2	299 39 35.2	Clement	3.895337	7,858.5

Lackey, 1918	38 13 39.374	1,214.0	310 07 16.9	130 08 24.5	Blakistone Island Lighthouse	3.540810	3,473.8
	76 46 31.949	777.1	11 12 42.7	191 12 09.7	Nomini 2	3.824792	6,680.2
			72 59 23.2	252 54 27.0	Meuse	4.086007	12,190.1
George (Va.), 1918	38 10 05.274	162.6	91 07 05.3	271 06 01.8	Nomini 2	3.398281	2,502.0
	76 45 42.546	1,035.7	169 41 01.0	349 40 30.4	Lackey	3.826712	6,709.8
			198 26 18.2	18 26 55.2	Blakistone Island Lighthouse	3.662614	4,598.5
			280 07 55.4	100 10 08.6	Murray	3.726797	5,330.9
Martin, 1918	38 12 39.131	1,206.5	327 14 41.0	147 16 13.9	Murray	3.829748	6,756.9
	76 44 37.159	904.0	18 32 55.7	198 32 15.3	George	3.699282	5,003.6
			41 05 10.8	221 03 26.9	Nomini 2	3.794366	6,228.2
			123 38 29.0	303 37 18.0	Lackey	3.525526	3,353.7
Matt, 1918	38 13 26.922	830.1	317 59 22.1	137 59 55.8	Martin	3.297322	1,983.0
	76 45 31.710	771.3	24 08 46.6	204 07 36.3	Nomini 2	3.829940	6,759.9
			104 41 18.2	284 40 40.9	Lackey	3.180322	1,514.7
Base, 1918	38 13 32.806	1,014.3	340 29 28.4	160 29 43.3	Martin	3.245181	1,758.7
	76 45 01.299	31.6	76 01 11.4	256 00 52.6	Matt	2.882124	762.3
			95 11 02.6	275 10 06.5	Lackey	3.345162	2,213.9
Shell (Va.), 1918	38 20 14.050	433.2	260 12 01.1	80 12 48.5	Lower Cedar Point Lighthouse	3.275456	1,885.6
	77 00 54.583	1,325.7	302 46 38.9	122 50 01.3	Clement	3.974823	9,436.8
			349 27 33.2	169 28 03.2	Rosier 2	3.808902	6,440.2
Bricks (Va.), 1918	38 19 21.448	661.3	206 36 36.5	26 36 57.3	Shell	3.258657	1,814.1
	77 01 28.041	681.1	233 57 42.6	53 58 50.8	Lower Cedar Point Lighthouse	3.518868	3,302.7
			291 43 44.7	111 47 27.9	Clement	3.973885	9,416.4
			337 04 46.9	157 05 37.7	Rosier 2	3.708694	5,113.2
End (Va.), 1918	38 19 51.719	1,594.7	239 38 59.9	59 39 30.0	Shell	3.134439	1,362.8
	77 01 43.008	1,044.6	338 43 04.1	158 43 13.4	Bricks	3.000723	1,001.7
Margan, 1918	38 20 31.196	961.9	319 44 28.9	139 46 30.8	Clement	3.868677	7,390.6
	76 58 44.627	1,083.8	16 06 12.7	196 05 22.2	Rosier 2	3.853712	7,140.2
			61 33 49.7	241 32 08.3	Bricks	3.654579	4,514.2
			80 30 08.1	260 28 47.5	Shell	3.505156	3,200.0
Potomac View, 1918	38 17 08.555	263.8	305 34 08.8	125 36 59.1	Cobb Point Bar Lighthouse	3.915045	8,223.3
	76 54 11.992	291.4	57 32 01.3	237 29 50.1	Admiral	3.785741	6,105.8
			108 10 02.6	288 09 15.5	Clement	3.289246	1,946.5
Cut 2 (Va.), 1918 [1]	38 18 40.84	1,259.2	225 44	45 45	Lower Cedar Point Lighthouse	3.66067	4,578
	77 01 53.06	851.8	245 01	65 03	Lower Cedar Point Beacon	3.66121	4,584
East Hub (Va.), 1918 [1]	38 19 12.28	378.6	359 11	179 11	Cut 2	2.98665	970
	77 01 53.63	1,302.8					

[1] No check on this position.

Potomac River, Ragged Point to Lower Cedar Point—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
West Hub (Va.), 1918	38 19 12.15	374.6	269 26	89 26	East Hub	2.61601	413
	77 02 10.63	258.2	336 09	156 09	Cut 2	3.02354	1,056
Macho (Va.), 1918	38 18 45.70	1,409.1	132 12	312 12	West Hub	3.08421	1,214
	77 01 33.61	816.5	149 19	329 19	East Hub	2.97907	953
Office Hub (Va.), 1918 [1]	38 19 12.18	375.5	253 59	74 00	Bricks	3.01550	1,036
	77 02 09.05	219.8					
Supplementary points							
Hebb's old house, river gable, 1901 [1]	38 12 25.65	790.8	313 40 54	133 40 57	Tower Hill 2	2.15049	141
	76 34 47.55	1,156.8	23 57 08	203 55 57	Ragged Point 2	3.84252	6,959
Ragged Point, old boathouse, northeast gable (Va.), 1901.	38 08 54.26	1,672.9	211 40 51	31 40 54	Ragged Point 2	2.268855	185.7
	76 36 47.57	1,158.1	281 13 09	101 16 14	Piney Point Lighthouse	3.871513	7,439.0
			320 19 45	140 22 37	Sandy Point 2	4.027270	10,648.0
St. Inigo, priest's red house, east chimney, 1901	38 15 19.667	606.4	335 37 36.5	155 38 05.5	Higgins Point 2	3.441096	2,761.2
	76 41 59.866	1,455.4	345 45 57.8	165 47 14.8	Upper Machodoc 2	4.091223	12,337.4
			1 06 07.8	181 06 02.3	Currioman 2	4.024732	10,586.0
Barn, small, near Blue Sow 2, gable, 1901	38 14 08.355	257.6	281 45 19.7	101 47 32.1	Cupola 2	3.725504	5,315.0
	76 42 43.035	1,046.6	337 17 19.6	157 19 03.4	Upper Machodoc 2	4.024473	10,579.7
			347 11 10.8	167 11 59.2	Herring Pond 2	3.933957	8,589.3
			354 13 46.7	174 14 07.9	Currioman 2	3.925722	8,428.0
Barn, large, near Blue Sow 2, gable, 1901	38 14 07.681	236.8	281 11 12.0	101 13 28.6	Cupola 2	3.738304	5,474.0
	76 42 49.878	1,212.9	336 24 59.3	156 25 47.3	Upper Machodoc 2	4.026371	10,626.0
			346 04 27.1	166 05 19.7	Herring Pond 2	3.934881	8,607.6
			353 05 17.2	173 05 42.6	Currioman 2	3.925607	8,425.7
Nomini Bay, first wharf beacon (Va.), 1901	38 08 22.080	680.8	197 03 23.9	17 04 44.7	Higgins Point 2	4.034928	10,837.5
	76 43 23.715	577.5	212 50 29.6	32 53 07.0	Cupola 2	4.057649	11,419.5
			218 43 46.1	38 44 32.4	Currioman 2	3.467957	2,937.4
Duck blind, old, off Blakistone Island, 1901	38 12 25.2	777.0	239 08	59 10	Higgins Point 2	3.74723	5,588
	76 44 30.2	734.8	254 57	75 00	Cupola 2	3.90786	8,088
			16 16	196 16	Hollis 2	3.66498	4,624
Blakistone Island, flagstaff B, house, with red roof, 1901.	38 12 41.710	1,286.0	232 29 40.8	52 31 05.6	Blue Sow 2	3.623404	4,201.5
	76 44 34.212	832.2	244 17 05.2	64 19 09.7	Higgins Point 2	3.734903	5,431.3
			328 06 51.9	148 08 21.9	Currioman 2	3.827901	6,728.2
Blakistone Island, wharf flagstaff, 1901	38 12 30.930	953.6	256 20 57.3	76 24 18.7	Cupola 2	3.911110	8,149.1
	76 44 34.671	843.5	319 16 43.2	139 18 40.6	Herring Pond 2	3.850401	7,086.0
			326 28 17.8	146 29 48.0	Currioman 2	3.809871	6,454.6
			14 25 27.9	194 24 57.4	Hollis 2	3.678181	4,766.3
Blakistone Island, house highest point striped roof, 1901.	38 12 30.539	941.6	256 18 45.5	76 22 07.6	Cupola 2	3.912691	8,178.8
	76 44 35.808	871.1	301 30 34.1	121 34 47.3	Coles Point 2	4.068140	11,698.8
			326 12 28.5	146 13 59.4	Currioman 2	3.810226	6,459.9
			14 08 14.5	194 07 44.7	Hollis 2	3.676492	4,747.8
Colton's Wharf, middle outer end, 1901	38 13 25.690	792.1	268 24 43.7	88 28 19.9	Cupola 2	3.929153	8,494.8
	76 44 58.213	1,416.0	5 33 52.2	185 33 36.6	Hollis 2	3.801704	6,334.4
			30 17 22.2	210 15 51.3	Nomini 2	3.851215	7,099.3
Colton's pavilion flagstaff, 1901	38 13 19.974	615.8	258 22 06.5	78 24 32.2	Higgins Point 2	3.766368	5,839.4
	76 45 08.179	198.9	267 18 00.3	87 21 42.8	Cupola 2	3.941692	8,743.6
			321 40 57.7	141 43 15.8	Herring Pond 2	3.943077	8,771.6
			3 28 13.0	183 28 03.6	Hollis 2	3.788137	6,139.6
Colton's Hotel, southeast chimney, 1901	38 13 20.732	639.2	267 27 24.9	87 31 07.7	Cupola 2	3.942354	8,757.0
	76 45 08.772	213.3	321 42 11.3	141 44 29.8	Herring Pond 2	3.944426	8,798.9
			3 19 22.8	183 19 13.7	Hollis 2	3.789723	6,162.0
White house, southeast chimney, 1901	38 13 50.810	1,566.6	343 49 22.3	163 50 14.5	Hollis 2	3.867508	7,370.7
	76 46 47.803	1,162.5	7 31 53.0	187 31 29.8	Nomini 2	3.842954	6,965.5
			107 41 35.2	287 39 50.4	Cobb Point Bar Lighthouse	3.635181	4,317.0
Barn, large, east end cliff (Va.), 1901 [1]	38 09 54.68	1,685.8	265 07 00	85 08 00	Hollis 2	3.37439	2,368
	76 47 00.37	9.0	274 30 34	94 33 34	Currioman 2	3.85336	7,134
Bushwood, Sacred Heart Church spire, 1901	38 18 08.707	268.5	330 23 59.8	150 27 47.6	Herring Pond 2	4.258881	18,150.2
	76 47 33.037	802.7	348 08 46.7	168 10 06.9	Hollis 2	4.186327	15,357.7
			359 16 28.0	179 16 32.8	Nomini 2	4.171973	14,858.4
			24 24 16.6	204 22 59.9	Cobb Point Bar Lighthouse	3.862833	7,291.8
			41 55 54.4	221 51 28.7	Popes Creek 2	4.194024	15,632.3
House, lavender center of triangle roof, 1901 [1]	38 15 02.89	89.1	339 03 29	159 05 00	Hollis 2	3.99820	9,959
	76 47 49.66	1,207.5	70 44 49	250 43 43	Cobb Point Bar Lighthouse	3.44138	2,763
Chiseltine's house, east chimney, 1901 [1]	38 15 02.51	77.4	58 33 05	238 29 00	Popes Creek 2	4.05262	11,288
	76 48 06.58	160.0	67 44 16	247 43 20	Cobb Point Bar Lighthouse	3.37550	2,374
Rock Point warehouse, southwest gable, 1901 [1]	38 16 21.47	662.0	341 17 28	161 19 07	Nomini 2	4.08616	12,194
	76 50 05.99	145.6	348 01 59	168 02 17	Cobb Point Bar Lighthouse	3.53257	3,409

[1] No check on this position.

Potomac River, Ragged Point to Lower Cedar Point—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
Rock Point store, northeast gable, 1901	38 16 24.612	758.8	329 34 26.2	149 37 22.6	Hollis 2	4.136904	13,705.8
	76 50 08.576	208.4	341 09 28.9	161 11 09.9	Nomini 2	4.090121	12,306.1
			347 21 29.1	167 21 48.6	Cobb Point Bar Lighthouse	3.546098	3,516.4
Colonial Beach, outer end upper rained roof (Va.), 1901.	38 15 17.87	551.0	132 41 27	312 41 21	White Point 2	2.528353	337.6
	76 57 34.73	844.4	151 56 40	331 54 36	Shell Bank	4.014273	10,334.1
			326 37 33	146 39 20	Popes Creek 2	3.882246	7,625.1
Eckstein's house, northeast corner (Va.), 1901 [1]	38 15 24.87	766.8	190 19 56	10 19 56	White Point 2	1.12400	13.3
	76 57 45.03	1,094.7					
Colonial Beach, Children's Home, cupola (Va.), 1901.	38 14 37.251	1,148.6	211 51 45.8	31 53 09.2	Swan Point 2	3.793988	6,222.8
	76 57 45.098	1,096.5	270 32 30.4	90 37 32.6	Cobb Point Bar Lighthouse	4.074516	11,871.8
			298 53 05.1	118 59 27.9	Nomini 2	4.236309	17,230.9
			318 59 49.8	139 01 42.9	Popes Creek 2	3.831100	6,778.0
Colonial Beach, hotel, main gable (Va.), 1901	38 15 14.033	432.7	218 33 41.7	38 35 06.1	Swan Point 2	3.724985	5,308.7
	76 57 46.096	1,120.8	275 58 52.3	96 03 55.1	Cobb Point Bar Lighthouse	4.077755	11,960.7
			302 02 23.7	122 08 47.5	Nomini 2	4.251079	17,827.0
			324 25 00.1	144 26 53.8	Popes Creek 2	3.885594	7,684.1
Colonial Beach, Professor Bell's house, cupola (Va.), 1901.	38 14 27.073	834.8	207 10 25.9	27 11 39.1	Swan Point 2	3.798886	6,293.4
	76 57 28.195	685.7	268 59 43.8	89 04 35.5	Cobb Point Bar Lighthouse	4.059260	11,462.0
			319 57 12.4	139 58 55.0	Popes Creek 2	3.797429	6,272.3
Lower Cedar Point beacon, 1901	38 19 43.591	1,344.1	196 30 29.9	16 30 41.0	Lower Cedar 2	3.187282	1,539.2
	76 59 02.008	48.8	308 54 14.3	128 56 25.7	Swan Point 2	3.821052	6,623.0
			336 32 24.9	156 35 05.7	Popes Creek 2	4.200613	15,871.3
			346 45 30.7	166 46 18.4	White Point 2	3.912831	8,181.5
Persimmon Point Shoal beacon (Va.), 1901	38 22 16.265	501.5	329 37 25.3	149 38 13.7	Lower Cedar 2	3.573543	3,745.8
	77 00 01.996	48.5	0 34 02.6	180 34 00.1	Rosier 2	4.004343	10,100.5
			18 44 52.7	198 44 20.1	Shell Bank	3.601413	3,994.0
			108 17 50.4	288 17 23.5	Persimmon 2	3.048347	1,117.8
Dills Wharf, outside end, 1901	38 20 29.289	903.1	320 52 14.2	140 54 09.8	Swan Point 2	3.856048	7,178.7
	76 58 36.345	882.7	17 47 10.2	197 46 14.6	Rosier 2	3.853858	7,142.6
			81 49 41.4	261 48 15.6	Shell Bank	3.531274	3,398.4
			109 44 30.6	289 44 25.9	Lower Cedar 2	2.295523	197.5
Dills Hotel, west gable, 1901	38 20 33.028	1,018.4	321 15 26.4	141 17 24.8	Swan Point 2	3.862575	7,287.4
	76 58 37.591	812.8	340 24 33.9	160 26 59.8	Popes Creek 2	4.232295	17,072.4
			17 16 46.0	197 15 51.3	Rosier 2	3.859946	7,243.5
			138 39 19.7	318 38 00.6	Persimmon 2	3.672848	4,708.1
Middle tree, small clump, 1901	38 17 31.739	978.6	346 31 50.7	166 31 51.2	Swan Point 2	1.992358	98.3
	76 55 30.867	750.1	122 24 19.1	302 20 58.2	Shell Bank	3.969406	9,319.8
			139 45 41.0	319 43 41.2	Lower Cedar 2	3.860975	7,260.6
Claggett's house (old) northeast chimney, 1901 [1]	38 17 32.62	1,005.8	52 26 15	232 26 11	Swan Point 2	2.30401	201
	76 55 23.36	567.7	78 52 31	258 49 36	Rosier 2	3.84535	7,004

Wicomico River

Principal points							
Corner, 1908	38 15 34.633	1,067.8	291 24 31.0	111 25 31.3	St. Margaret 2	3.405553	2,544.2
	76 50 21.177	514.9	330 20 52.1	150 21 19.5	Cobb Point Bar Lighthouse	3.337451	2,175.0
Hard, 1908	38 16 25.362	782.0	228 46 18.7	48 47 51.4	Sacred Heart Church	3.684500	4,836.2
	76 50 02.730	66.4	322 23 44.5	142 24 33.4	St. Margaret 2	3.497849	3,146.7
			349 42 19.5	169 42 35.5	Cobb Point Bar Lighthouse	3.545408	3,510.8
			16 00 00.1	195 59 48.7	Corner	3.211426	1,627.1
Prec, 1908	38 16 07.934	244.6	8 40 53.5	188 40 45.9	St. Margaret 2	3.296327	1,978.5
	76 48 31.480	765.3	68 57 06.6	248 55 58.7	Corner	3.456009	2,857.6
			103 37 32.4	283 36 35.9	Hard	3.358370	2,282.3
			200 52 23.4	20 52 59.6	Sacred Heart Church	3.600487	3,985.5
Weiss, 1908	38 17 11.719	361.3	343 36 17.2	163 36 31.9	Prec	3.311759	2,050.0
	76 48 55.284	1,343.6	48 55 12.4	228 54 30.6	Hard	3.337445	2,174.9
Charles, 1908	38 17 20.554	633.7	250 25 21.4	70 27 07.9	Sacred Heart Church	3.646824	4,434.3
	76 50 24.984	607.2	277 06 53.2	97 07 48.8	Weiss	3.341811	2,196.9
			309 03 13.4	129 04 23.7	Prec	3.550605	3,553.1
			342 21 57.6	162 22 11.4	Hard	3.251788	1,785.6
Lyon, 1908	38 18 10.468	322.8	334 13 06.1	154 13 28.4	Weiss	3.303538	2,011.6
	76 49 31.284	760.1	40 17 56.1	220 17 22.8	Charles	3.304865	2,017.7
Hedney, 1908	38 17 59.385	1,831.0	259 38 30.1	79 39 17.8	Lyon	3.279154	1,901.8
	76 50 48.277	1,173.1	298 08 50.6	118 10 00.6	Weiss	3.493377	3,114.4
			334 41 38.2	154 41 52.6	Charles	3.121998	1,324.3
Farr, 1908	38 19 10.261	316.4	344 12 29.9	164 12 43.2	Lyon	3.282379	1,915.9
	76 49 52.743	1,281.2	31 41 45.1	211 41 10.7	Hedney	3.409647	2,568.3

[1] No check on this position.

Wicomico River—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Gust, 1908	38 18 57.629	1,776.9	257 45 24.2	77 46 10.0	Farr	3.264262	1,837.6
	76 51 06.670	162.0	302 05 55.6	122 06 54.7	Lyon	3.437099	2,735.9
			346 01 29.8	166 01 41.2	Hedney	3.267317	1,850.6
Eedling, 1908	38 19 20.295	625.8	277 45 10.3	97 46 08.2	Farr	3.360029	2,291.0
	76 51 26.192	636.2	325 50 21.5	145 50 33.6	Gust	2.926642	844.6
Fact, 1908	38 20 12.986	400.4	334 00 25.8	154 00 49.8	Farr	3.332764	2,151.6
	76 50 31.560	766.5	20 09 28.2	200 09 06.4	Gust	3.393591	2,475.1
			39 14 41.7	219 14 07.8	Eedling	3.321738	2,097.7
Bowman, 1908	38 20 00.864	26.6	261 07 26.8	81 08 28.0	Fact	3.384675	2,424.8
	76 52 10.206	247.9	319 28 35.1	139 29 02.4	Eedling	3.216296	1,645.5
Burr, 1908	38 20 39.830	1,228.1	294 00 32.3	114 01 19.7	Fact	3.308296	2,033.7
	76 51 48.055	1,167.0	347 46 49.0	167 47 02.5	Eedling	3.399533	2,509.2
			24 07 19.5	204 07 05.7	Bowman	3.119393	1,316.4
Hayden, 1908	38 21 06.528	201.3	318 24 54.5	138 25 31.9	Fact	3.343797	2,207.0
	76 51 31.875	774.0	25 30 57.2	205 30 47.2	Burr	2.960063	912.1
Cohouck, 1908	38 21 07.586	233.9	11 27 51.9	191 27 43.2	Fact	3.234962	1,717.8
	76 50 17.502	425.0	68 44 31.2	248 43 35.1	Burr	3.372826	2,359.5
			88 58 19.8	268 57 33.7	Hayden	3.256759	1,806.2
Stoddard, 1908	38 21 32.031	987.6	295 11 57.2	115 12 38.1	Cohouck	3.247952	1,769.9
	76 51 23.457	569.5	14 34 16.2	194 34 11.0	Hayden	2.909802	812.5
Key, 1908	38 21 51.049	1,574.0	3 29 12.8	183 29 10.7	Cohouck	3.127947	1,342.6
	76 50 14.139	343.3	53 58 40.0	233 57 51.8	Hayden	3.368061	2,333.8
			70 47 45.0	250 47 02.0	Stoddard	3.250943	1,782.1
Upper, 1908	38 21 57.089	1,760.3	275 07 58.4	95 08 51.3	Key	3.317760	2,078.5
	76 51 39.413	956.8	333 22 13.2	153 22 23.1	Stoddard	2.936656	864.3
Barber, 1908	38 22 34.631	1,067.8	314 51 04.3	134 51 38.8	Key	3.279940	1,905.2
	76 51 09.775	237.3	9 45 55.9	189 45 47.4	Stoddard	3.291934	1,958.5
			31 51 54.6	211 51 36.2	Upper	3.134475	1,362.9
Supplementary points							
River Springs, Catholic Church, 1908	38 15 17.426	537.3	24 54 42.4	204 54 24.8	Bailey	3.216827	1,647.5
	76 46 11.154	271.2	48 10 40.9	228 09 49.1	St. Catherine	3.436549	2,732.4
			53 24 46.8	233 24 11.3	Sound	3.239819	1,737.1
Rock Point, Catholic Church, 1908	38 16 20.499	632.0	239 58 20.2	59 58 26.8	Hard	2.476618	299.6
	76 50 13.403	325.8	278 52 41.6	98 53 44.7	Prec	3.399276	2,507.7
			317 04 04.0	137 04 59.5	St. Margaret 2	3.505149	3,200.0
Blakistone, 1908	38 16 54.253	1,672.8	18 42 06.2	198 41 53.6	Prec	3.187609	1,540.3
	76 48 11.163	271.3	71 14 17.3	251 13 08.2	Hard	3.456987	2,864.1
			115 20 21.0	295 19 53.7	Weiss	3.074237	1,186.4
Perry, 1908	38 20 45.540	1,404.2	51 09 19.9	231 08 48.1	Fact	3.204173	1,600.2
	76 49 40.243	977.2	86 45 52.4	266 44 33.2	Burr	3.492585	3,108.7
			126 55 15.2	306 54 52.1	Cohouck	3.053708	1,131.6

St. Catherine Sound

Principal points							
St. Catherine, 1908	38 14 18.324	565.0	98 52 14.6	278 50 59.1	Cobb Point Bar Lighthouse	3.477670	3,003.8
	76 47 34.885	848.4	130 22 26.2	310 21 43.6	St. Margaret 2	3.342091	2,198.3
Sound, 1908	38 14 43.842	1,351.8	39 11 06.5	219 10 50.2	St. Catherine	3.006488	1,015.1
	76 47 08.513	207.0	84 52 50.4	264 51 18.6	Cobb Point Bar Lighthouse	3.559143	3,623.6
			105 23 14.0	285 22 15.1	St. Margaret 2	3.380588	2,402.1
Bailey, 1908	38 14 28.963	893.0	76 16 15.0	256 15 40.8	St. Catherine	3.140429	1,381.7
	76 46 39.691	965.2	123 12 31.3	303 12 13.4	Sound	2.923074	837.7
Waterloo, 1908	38 13 54.579	1,682.8	122 22 26.1	302 21 56.7	St. Catherine	3.135926	1,367.5
	76 46 47.394	1,152.7	161 19 10.2	341 18 57.1	Sound	3.205017	1,603.4
			190 01 11.1	10 01 15.9	Bailey	3.032055	1,076.6

St. Clement Bay

Principal points							
Heron, 1908	38 12 54.728	1,687.4	336 50 38.9	156 51 45.2	Herring Pond 2	3.822167	6,640.0
	76 43 12.040	292.9	68 39 57.3	248 39 01.2	Blakistone Island Lighthouse	3.374698	2,369.7
St. Patrick, 1908	38 14 18.898	582.7	329 10 17.8	149 10 57.2	Heron	3.480308	3,022.1
	76 44 15.703	381.9	10 46 54.9	190 46 38.2	Blakistone Island Lighthouse	3.546514	3,519.8
St. Clement, 1908	38 14 00.216	6.7	1 08 01.8	181 08 00.8	Heron	3.305271	2,019.6
	76 43 10.397	252.9	37 57 09.1	217 56 12.0	Blakistone Island Lighthouse	3.562782	3,654.1
			109 56 23.1	289 55 42.7	St. Patrick	3.227749	1,689.5

St. Clement Bay—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Canoe, 1908	38 14 42.769	1,318.7	317 54 21.0	137 54 51.1	St Clement	3.247487	1,768.0
	76 43 59.128	1,437.8	28 42 25.3	208 42 15.0	St. Patrick	2.923846	839.2
Roof, 1908	38 14 22.531	694.7	12 05 19.6	192 05 15.8	St. Clement	2.847344	703.6
	76 43 04.339	105.5	86 18 47.0	266 18 02.8	St. Patrick	3.240333	1,739.1
			115 06 00.6	295 05 26.7	Canoe	3.167693	1,471.3
Woods, 1908	38 15 18.342	565.5	350 02 31.5	170 02 39.2	Roof	3.242326	1,747.1
	76 43 16.763	407.6	43 12 32.3	223 12 06.1	Canoe	3.177461	1,504.7
Rails, 1908	38 14 50.257	1,549.6	30 14 22.4	210 14 09.7	Roof	2.995422	989.5
	76 42 43.848	1,066.2	82 49 05.8	262 48 19.2	Canoe	3.266022	1,845.1
			137 15 27.2	317 15 06.8	Woods	3.071566	1,179.1
Chapel, 1908	38 15 30.121	928.7	18 53 16.1	198 53 05.4	Rails	3.113629	1,299.1
	76 42 26.554	645.6	73 26 09.4	253 25 38.3	Woods	3.105041	1,273.6
Shipping, 1908	38 15 57.167	1,762.6	325 39 46.4	145 40 00.9	Chapel	3.004266	1,009.9
	76 42 49.983	1,215.1	355 51 49.8	175 51 53.6	Rails	3.315637	2,068.4
			28 32 34.8	208 32 18.2	Woods	3.134395	1,362.7
Mansion, 1908	38 15 54.068	1,667.1	28 14 18.2	208 14 08.1	Chapel	2.923283	838.1
	76 42 10.244	249.0	95 39 09.6	275 38 45.0	Shipping	2.987120	970.8
Howards, 1908	38 16 14.030	432.6	327 53 29.7	147 53 39.5	Mansion	2.861310	726.6
	76 42 26.131	635.2	0 26 05.4	180 26 05.1	Chapel	3.131578	1,353.9
			48 07 09.7	228 06 54.9	Shipping	2.891424	778.8
Mileys, 1908	38 16 20.267	624.9	281 08 13.9	101 08 38.8	Howards	2.997975	995.3
	76 43 06.306	153.3	330 52 32.5	150 52 42.6	Shipping	2.911331	815.3
Bank, 1908	38 16 27.616	851.5	342 41 09.4	162 41 12.7	Howards	2.642264	438.8
	76 42 31.503	765.7	25 34 18.2	205 34 06.7	Shipping	3.017360	1,040.8
			75 00 29.9	255 00 08.3	Mileys	2.942406	875.8
Profound, 1908	38 16 45.544	1,404.3	304 38 50.7	124 39 11.1	Bank	2.987777	972.2
	76 43 04.408	107.1	3 23 15.3	183 23 14.1	Mileys	2.892510	780.7
Cecil, 1908	38 16 53.287	1,643.0	352 10 09.5	172 10 12.3	Bank	2.902537	799.0
	76 42 35.982	874.5	35 54 20.5	215 54 01.7	Mileys	3.099312	1,256.9
			70 56 24.2	250 56 06.6	Profound	2.863921	731.0
Radec, 1908	38 17 13.719	423.0	314 17 21.6	134 17 38.1	Cecil	2.955282	902.2
	76 43 02.552	62.0	2 58 24.9	182 58 23.8	Profound	2.939470	869.9
Place, 1908	38 17 21.096	650.5	12 13 51.8	192 13 47.1	Cecil	2.943183	877.4
	76 42 28.334	688.6	38 39 22.4	218 39 00.1	Profound	3.147272	1,403.7
			74 42 16.3	254 41 55.1	Radec	2.935574	862.1
Guest, 1908	38 17 43.891	1,353.3	318 28 18.8	138 28 34.7	Place	2.972567	938.8
	76 42 53.945	1,310.9	12 40 19.1	192 40 13.8	Radec	2.979331	953.5
Cobrums, 1908	38 17 28.378	875.0	233 04 51.5	53 05 07.7	Guest	2.901102	796.3
	76 43 20.145	489.6	280 06 18.5	100 06 50.6	Place	3.106859	1,279.0
			316 35 18.8	136 35 29.7	Radec	2.793900	622.2
Tomakokin, 1908	38 17 40.692	1,254.7	264 01 00.0	84 01 24.0	Guest	2.976293	946.9
	76 43 32.698	794.6	321 13 05.8	141 13 13.6	Cobrums	2.687576	487.1
Dynard, 1908	38 17 52.638	1,623.0	288 53 51.3	108 54 11.4	Guest	2.920450	832.6
	76 43 26.362	640.6	348 34 51.7	168 34 55.6	Cobrums	2.882604	763.1
			22 41 06.5	202 41 02.6	Tomakokin	2.601232	399.2
Turf, 1908	38 18 14.355	442.6	321 17 43.1	141 18 02.3	Guest	3.080490	1,203.6
	76 43 24.917	605.4	3 00 06.4	183 00 05.5	Dynard	2.826417	670.5
Stones, 1908	38 18 16.769	517.0	343 04 41.5	163 04 49.4	Guest	3.025148	1,059.6
	76 43 06.637	161.3	32 47 25.5	212 47 13.3	Dynard	2.946966	885.0
Supplementary point			80 29 20.5	260 29 09.2	Turf	2.653553	450.4
Newtown Neck Catholic Church, 1908	38 15 20.871	643.5	87 32 55.0	267 32 08.7	Woods	3.259644	1,818.2
	76 42 02.050	49.8	133 50 41.9	313 50 12.2	Shipping	3.208356	1,615.7
			168 59 12.7	348 59 07.6	Mansion	3.018184	1,042.8

Bretons Bay

Principal points							
Kaywood, 1908	38 14 03.034	93.5	350 57 28.9	170 58 02.1	Herring Pond 2	3.919851	8,314.8
	76 42 18.463	449.0	31 45 08.9	211 44 35.7	Heron	3.393868	2,476.7
			49 47 30.2	229 46 00.9	Blakistone Island Lighthouse	3.662485	4,597.1
Cedoak, 1908	38 14 06.837	210.8	1 49 17.1	181 49 10.4	Herring Pond 2	3.920802	8,333.0
	76 41 13.909	338.3	52 16 42.5	232 15 29.4	Heron	3.560278	3,633.1
			58 44 39.7	238 42 30.5	Blakistone Island Lighthouse	3.774089	5,944.1
			85 44 05.5	265 43 25.6	Kaywood	3.197106	1,574.4

Bretons Bay—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Newtown, 1908	38 14 25.988	801.3	299 15 05.0	119 15 31.8	Cedoak	3.082179	1,208.3
	76 41 57.257	1,392.4	36 04 58.2	216 04 45.1	Kaywood	2.942364	875.7
Grove, 1908	38 14 23.634	728.7	354 36 58.2	174 36 59.4	Cedoak	2.716174	520.2
	76 41 15.916	387.1	67 20 32.7	247 19 54.0	Kaywood	3.217067	1,648.4
			94 08 00.2	274 07 34.6	Newtown	3.003449	1,008.0
Sandbar, 1908	38 14 50.549	1,558.6	313 02 02.8	133 02 25.4	Grove	3.084924	1,216.0
	76 41 52.464	1,275.7	8 44 57.3	188 44 54.3	Newtown	2.884339	766.2
Dune, 1908	38 14 28.615	882.3	26 45 37.8	206 45 35.8	Grove	2.235534	172.0
	76 41 12.731	309.6	85 43 31.5	265 43 06.9	Newtown	3.035756	1,085.8
			124 59 36.3	304 59 11.7	Sandbar	3.071650	1,179.4
Fence, 1908	38 14 38.088	1,174.4	46 15 06.5	226 14 58.7	Dune	2.625692	422.4
	76 41 00.184	4.5	106 49 15.4	286 48 43.0	Sandbar	3.123222	1,328.1
Compton, 1908	38 15 21.563	664.9	318 29 11.9	138 29 42.1	Fence	3.252864	1,790.0
	76 41 48.973	1,190.7	331 38 09.7	151 38 32.1	Dune	3.268395	1,855.2
			5 04 19.4	185 04 17.2	Sandbar	2.982277	960.0
Cherry Cove, 1908	38 15 34.660	1,068.7	6 37 29.1	186 37 23.9	Fence	3.244529	1,756.0
	76 40 51.853	1,260.7	73 47 29.5	253 46 54.1	Compton	3.160250	1,446.3
Protestant, 1908	38 14 55.125	1,699.7	52 49 53.9	232 49 36.2	Fence	2.939237	869.4
	76 40 31.693	770.6	113 27 32.1	293 26 44.2	Compton	3.311380	2,048.2
			158 05 46.4	338 05 33.9	Cherry Cove	3.118545	1,313.8
Paw, 1908	38 15 30.594	943.3	39 14 40.4	219 14 17.7	Protestant	3.149850	1,412.0
	76 39 54.956	1,336.1	95 11 00.9	275 10 25.7	Cherry Cove	3.142697	1,389.0
What, 1908	38 14 52.955	1,632.8	92 54 56.1	272 54 22.6	Protestant	3.119752	1,317.5
	76 39 37.581	913.8	125 27 34.8	305 26 48.8	Cherry Cove	3.345749	2,216.9
			159 59 54.8	339 59 44.0	Paw	3.091676	1,235.0
Trees, 1908	38 15 49.185	1,516.5	15 58 51.7	195 58 39.1	What	3.256096	1,803.4
	76 39 17.162	417.2	158 02 44.2	238 02 20.8	Paw	3.034521	1,083.0
Lovers, 1908	38 15 39.170	1,207.7	41 19 27.9	221 18 56.0	What	3.278139	1,897.3
	76 38 46.058	1,119.8	81 02 07.1	261 01 24.4	Paw	3.229376	1,695.8
			112 12 56.8	292 12 37.5	Trees	2.912111	816.8
Hollow, 1908	38 16 01.191	36.7	311 14 13.8	131 14 33.5	Lovers	3.012833	1,030.0
	76 39 17.917	435.6	357 09 42.4	177 09 42.9	Trees	2.568962	370.6
Healey, 1908	38 16 06.583	203.0	359 57 04.2	179 57 04.2	Lovers	2.926968	845.2
	76 38 46.088	1,120.4	54 37 25.2	234 37 06.0	Trees	2.966845	926.5
			77 52 39.0	257 52 19.3	Hollow	2.898397	791.4
Beau, 1908	38 15 56.927	1,755.2	42 18 44.2	222 18 31.5	Lovers	2.869439	740.4
	76 38 25.559	621.3	120 49 13.0	300 49 00.3	Healey	2.764265	581.1
Belle, 1908	38 16 09.124	281.3	323 19 04.6	143 19 11.7	Beau	2.671109	468.9
	76 38 37.082	901.4	13 17 42.4	193 17 36.8	Lovers	2.977266	949.0
			70 18 35.2	250 18 29.6	Healey	2.366483	232.5
Noname, 1908	38 16 22.452	692.3	17 34 57.8	197 34 51.4	Beau	2.916759	825.6
	76 38 15.300	371.9	52 11 09.6	232 10 56.1	Belle	2.826232	670.2
Mouldy, 1908	38 15 56.378	1,738.3	91 46 45.1	271 46 31.2	Beau	2.737189	546.0
	76 38 03.110	75.6	115 27 06.9	295 26 45.9	Belle	2.961224	914.6
			159 46 04.2	339 45 56.7	Noname	2.932889	856.8
Pine, 1908	38 16 07.278	224.4	46 51 45.6	226 51 36.5	Mouldy	2.691521	491.5
	76 37 48.357	1,175.5	125 32 36.3	305 32 19.6	Noname	2.905742	804.9
Cedar, 1908	38 16 23.200	715.3	349 20 29.4	169 20 31.8	Pine	2.698581	499.6
	76 37 52.158	1,267.9	17 50 46.2	197 50 39.4	Mouldy	2.938921	868.8
			87 39 18.0	267 39 03.7	Noname	2.750516	563.0
Buzzard, 1908	38 16 46.807	1,443.2	351 50 39.9	171 50 42.6	Cedar	2.866478	735.3
	76 37 56.449	1,372.0	31 23 30.8	211 23 19.1	Noname	2.944332	879.7
Corn, 1908	38 16 35.182	1,084.8	29 46 34.8	209 46 29.4	Cedar	2.629031	425.6
	76 37 43.462	1,056.4	63 06 36.7	243 06 17.0	Noname	2.938386	867.7
			138 37 57.4	318 37 49.4	Buzzard	2.679093	477.6
Foxwell, 1908	38 17 01.687	52.0	348 45 23.1	168 45 27.2	Corn	2.920770	833.2
	76 37 50.146	1,218.7	18 27 54.4	198 27 50.5	Buzzard	2.684576	483.7
Valley, 1908	38 16 54.528	1,681.3	28 01 53.1	208 01 45.0	Corn	2.829811	675.8
	76 37 30.396	738.8	69 23 52.8	249 23 36.7	Buzzard	2.830268	676.5
			114 41 48.2	294 41 36.0	Foxwell	2.722908	528.3

Potomac River, Lower Cedar Point to District of Columbia

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points	° ′ ″		° ′ ″	° ′ ″			
Persimmon 2 (Va.), 1901	38 22 27.644	852.4	320 28 16.9	140 29 32.5	Lower Cedar 2	3.666911	4,644.2
	77 00 45.716	1,109.6	3 04 25.0	183 04 19.3	Shell Bank	3.616899	4,139.0
Bluff 2, 1901	38 25 32.228	993.7	346 22 47.9	166 23 45.4	Lower Cedar 2	3.979644	9,542.1
	77 00 16.525	400.8	5 24 45.3	185 24 21.5	Shell Bank	3.994250	9,868.5
			7 05 48.2	187 05 30.1	Persimmon 2	3.758558	5,735.3
Windmill 2, 1901	38 26 38.129	1,175.7	302 00 45.2	122 02 08.5	Bluff 2	3.583419	3,831.9
	77 02 30.476	739.0	341 46 29.5	161 47 34.6	Persimmon 2	3.910138	8,130.9
Mathias 2 (Va.), 1901	38 23 44.049	1,358.2	193 49 14.2	13 49 48.0	Windmill 2	3.742544	5,527.7
	77 03 24.927	604.9	233 51 52.5	53 53 49.6	Bluff 2	3.752709	5,658.6
Upper Cedar 2, 1901	38 24 25.820	796.1	226 47 41.4	46 49 32.8	Windmill 2	3.775297	5,960.7
	77 05 29.638	719.1	254 53 12.6	74 56 27.2	Bluff 2	3.895822	7,867.2
			293 02 40.8	113 03 58.3	Mathias 2	3.517035	3,288.8
Railroad, 1901	38 24 04.837	149.1	349 07 45.8	169 08 18.1	Lower Cedar 2	3.826049	6,699.6
	76 59 36.026	874.2	29 26 41.7	209 25 58.4	Persimmon 2	3.536704	3,441.2
			83 26 13.2	263 23 50.9	Mathias 2	3.747515	5,591.3
			138 10 35.7	318 08 47.2	Windmill 2	3.802373	6,344.1
Metomkin 2 (Va.), 1901	38 22 02.725	84.0	223 04 46.4	43 06 32.1	Upper Cedar 2	3.781190	6,042.1
	77 08 19.727	478.9	246 23 13.1	66 26 16.3	Mathias 2	3.892515	7,807.6
Adams 2, 1901	38 22 32.758	1,010.1	242 08 19.9	62 11 08.9	Upper Cedar 2	3.873051	7,465.4
	77 10 01.657	40.2	257 06 21.9	77 10 28.4	Mathias 2	3.994600	9,876.4
			290 30 36.3	110 31 39.5	Metomkin 2	3.421930	2,642.0
Stuart 2 (Va.), 1901	38 22 05.486	169.1	100 35 00.8	280 33 05.4	Adams 2	3.661373	4,585.4
	77 06 55.967	1,358.7	205 49 44.9	25 50 38.5	Upper Cedar 2	3.681928	4,807.6
			217 26 19.7	37 29 04.7	Windmill 2	4.024932	10,590.9
			239 18 03.0	59 20 14.0	Mathias 2	3.774951	5,956.0
Wheat 2 (Va.), 1901	38 20 39.646	1,222.4	184 00 05.8	4 00 12.0	Adams 2	3.543591	3,496.2
	77 10 11.708	284.3	226 41 50.7	46 43 00.2	Metomkin 2	3.572355	3,735.6
Grimes 2 (Va.), 1901	38 20 26.040	802.9	219 52 30.1	39 53 53.6	Adams 2	3.706887	5,092.0
	77 12 16.147	392.1	242 32 10.7	62 34 37.5	Metomkin 2	3.810797	6,468.4
			262 05 08.7	82 06 25.9	Wheat 2	3.484433	3,050.9
Maryland 2, 1901	38 21 36.862	1,136.6	262 24 35.2	82 27 08.7	Metomkin 2	3.782023	6,053.7
	77 12 26.909	653.3	298 14 29.8	118 15 53.7	Wheat 2	3.571344	3,726.9
			353 10 29.7	173 10 36.4	Grimes	3.342282	2,199.3
Tanzy (Va.), 1901	38 19 58.143	1,792.7	239 11 36.4	59 13 47.0	Maryland 2	3.774263	5,946.5
	77 15 57.277	1,391.1	260 52 54.4	80 55 11.7	Grimes 2	3.735515	5,438.9
Marlborough (Va.), 1901	38 21 34.801	1,073.1	269 27 45.7	89 30 47.4	Maryland 2	3.851595	7,105.5
	77 17 19.560	474.9	286 01 42.4	106 04 50.8	Grimes 2	3.884598	7,666.5
			326 09 14.2	146 10 05.3	Tanzy	3.554871	3,588.2
Thom, 1901	38 22 43.302	1,335.2	320 14 50.2	140 16 20.1	Grimes 2	3.740683	5,504.1
	77 14 41.078	996.9	19 58 22.6	199 57 35.3	Tanzy	3.733851	5,418.2
			61 14 48.9	241 13 10.5	Marlborough	3.642357	4,388.9
Waller (Va.), 1901	38 25 25.935	799.6	307 04 26.4	127 07 16.2	Thom	3.919794	8,313.7
	77 19 14.355	348.2	334 39 18.7	154 41 21.0	Tanzy	4.048518	11,182.0
			338 38 21.8	158 39 33.1	Marlborough	3.883770	7,651.9
Smith 2, 1901	38 24 57.986	1,787.9	0 05 58.7	180 05 58.2	Tanzy	3.965923	9,245.3
	77 15 56.616	1,373.5	17 49 12.2	197 48 20.7	Marlborough	3.818254	6,580.4
			100 12 06.5	280 10 03.6	Waller	3.687860	4,873.7
Liverpool 2, 1901	38 27 49.947	1,540.1	355 02 14.3	175 02 26.1	Smith 2	3.726095	5,322.2
	77 16 15.594	378.1	44 19 38.0	224 17 46.8	Waller	3.792794	6,205.7
Fishery (Va.), 1901	38 28 24.273	748.4	284 11 17.2	104 13 04.6	Liverpool 2	3.634849	4,313.7
	77 19 08.094	196.2	323 51 11.9	143 53 11.1	Smith 2	3.896266	7,875.3
			1 34 55.6	181 34 51.7	Waller	3.740442	5,501.0
Sandy 2, 1901	38 29 21.488	662.6	30 10 42.4	210 08 54.2	Waller	3.924308	8,400.6
	77 16 20.267	491.2	66 34 06.7	246 32 22.3	Fishery	3.646785	4,433.9
Quantico (Va.), 1901	38 31 13.499	416.2	339 00 11.7	159 00 45.8	Sandy 2	3.568122	3,699.3
	77 17 14.960	362.4	347 05 02.1	167 05 39.2	Liverpool 2	3.808829	6,439.2
			27 43 38.9	207 42 28.6	Fishery	3.770436	5,894.4
Fairoak 2, 1901	38 30 22.388	690.3	16 55 56.4	196 55 41.7	Sandy 2	3.292897	1,962.9
	77 15 56.678	1,373.2	51 52 54.3	231 50 55.2	Fishery	3.770693	5,897.8
			129 43 55.1	309 43 06.3	Quantico	3.391975	2,465.9
Cockpit (Va.), 1901	38 33 38.679	1,192.6	6 54 58.2	186 54 39.3	Fairoak 2	3.785106	6,096.9
	77 15 26.378	638.6	9 21 07.0	189 20 33.4	Sandy 2	3.905098	8,037.1
			29 00 29.2	208 58 11.2	Fishery	4.044661	11,083.1
			30 26 26.4	210 25 18.7	Quantico	3.715317	5,191.8
Matt, 1901	38 33 09.073	279.8	51 22 54.7	231 20 59.9	Quantico	3.756472	5,707.8
	77 14 10.866	263.1	116 32 22.4	296 31 35.3	Cockpit	3.310393	2,043.6

42300°—25†——15

Potomac River, Lower Cedar Point to District of Columbia—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Fairfax (Va.), 1901	38 35 24.793	764.4	346 42 43.0	166 43 08.5	Matt	3.633463	4,299.9
	77 14 51.682	1,250.7	14 23 56.3	194 23 34.7	Cockpit	3.528667	3,378.1
Knight (Va.), 1901	38 37 09.625	296.8	27 37 11.5	207 35 31.6	Matt	3.922741	8,370.3
	77 11 30.609	740.4	56 25 02.6	236 22 57.1	Fairfax	3.766506	5,841.3
Sycamore (Va.), 1902	38 37 27.678	853.4	59 42 23.9	239 39 36.7	Fairfax	3.875444	7,506.6
	77 10 23.865	577.2	70 59 00.5	250 58 18.8	Knight	3.232455	1,707.9
Indian Head, 1902	38 36 24.074	742.3	125 33 21.6	305 32 30.9	Knight	3.383071	2,415.9
	77 10 09.366	226.6	169 51 40.0	349 51 31.0	Sycamore	3.299366	1,992.4
Glymont, 1902	38 36 38.109	1,175.0	80 53 04.0	260 51 54.4	Indian Head	3.435982	2,728.9
	77 08 18.010	435.7	101 47 50.0	281 45 49.7	Knight	3.677596	4,759.9
			116 40 02.4	296 38 43.8	Sycamore	3.532354	3,406.9
Pamunkey, 1902	38 38 03.853	118.8	41 58 34.5	221 57 33.1	Glymont	3.550956	3,556.0
	77 06 39.712	960.4	58 46 34.4	238 44 23.4	Indian Head	3.773208	5,932.1
			78 23 38.1	258 21 18.1	Sycamore	3.743156	5,535.5
Gut, 1902	38 39 50.490	1,556.8	352 50 11.8	172 50 22.5	Pamunkey	3.520356	3,314.0
	77 06 56.798	1,373.2	18 19 38.3	198 18 47.6	Glymont	3.795798	6,248.8
Whitestone Point (Va.), 1902	38 40 30.514	940.8	310 57 44.3	130 58 21.0	Gut	3.274704	1,882.4
	77 07 55.592	1,343.7	337 54 36.8	157 55 24.2	Pamunkey	3.688449	4,880.3
			4 19 42.2	184 19 28.2	Glymont	3.856530	7,186.7
Benvenue (Va.), 1902	38 39 49.220	1,517.7	230 44 20.2	50 45 00.5	Whitestone Point	3.303677	2,012.2
	77 09 00.044	1.1	269 14 10.9	89 15 27.9	Gut	3.474211	2,980.0
			313 44 30.3	133 45 58.0	Pamunkey	3.671919	4,698.1
Stevenson, 1902	38 40 15.841	488.4	74 58 09.1	254 56 50.1	Benvenue	3.500094	3,163.0
	77 06 53.694	1,297.9	106 49 45.0	286 49 06.3	Whitestone Point	3.194013	1,563.2
Briscoe, 1902	38 40 46.901	1,446.3	35 22 59.0	215 22 41.4	Stevenson	3.069915	1,174.7
	77 06 25.558	617.8	64 32 50.1	244 31 13.5	Benvenue	3.616631	4,136.5
			76 56 11.1	256 55 14.8	Whitestone Point	3.349124	2,234.2
Dogue (Va.), 1902	38 41 17.658	544.4	260 22 07.2	80 24 08.2	Bryants Point	3.675849	4,740.8
	77 07 20.248	489.4	305 39 11.6	125 39 45.8	Briscoe	3.211361	1,626.9
			341 23 15.3	161 23 31.9	Stevenson	3.303476	2,011.3
Ferry Point (Va.), 1902	38 41 50.088	1,544.4	273 44 36.7	93 45 58.8	Bryants Point	3.502315	3,179.2
	77 06 18.114	437.7	5 16 33.6	185 16 28.9	Briscoe	3.291520	1,956.7
			16 29 14.4	196 28 52.1	Stevenson	3.481542	3,030.7
			56 20 37.2	236 19 58.3	Dogue	3.256253	1,804.1
Marshall Point, 1902	38 41 10.010	308.6	96 56 48.3	276 55 58.2	Dogue	3.290434	1,951.8
	77 06 00.084	2.0	160 34 45.0	340 34 33.7	Ferry Point	3.117403	1,310.4
			249 24 36.5	69 25 47.3	Bryants Point	3.465890	2,923.4
Mount Vernon 2 (Va.), 1902	38 42 36.541	1,126.7	320 18 11.4	140 18 46.6	Bryants Point	3.328813	2,132.1
	77 05 03.195	77.2	27 15 49.9	207 15 14.3	Marshall Point	3.477355	3,001.6
Budds Ferry, 1901	38 31 32.112	990.1	43 46 35.1	223 44 12.7	Fishery	3.904112	8,018.8
	77 15 19.230	465.8	78 26 25.4	258 25 13.3	Quantico	3.456608	2,861.6
			177 27 39.3	357 27 34.8	Cockpit	3.591785	3,906.5
			185 18 32.0	5 18 49.2	Fairfax	3.857668	7,205.6
Mount Vernon (Va.), 1901	38 42 36.552	1,127.1	198 47 53.4	18 48 35.8	Dunn	3.705959	5,081.1
	77 05 02.595	62.7					
Bryants Point, 1901	38 41 43.335	1,336.2	140 37 09.2	320 36 34.3	Mount Vernon	3.326980	2,123.1
	77 04 06.842	165.4					
Dyke (Va.), 1901	38 46 00.94	29.0	143 29 18	323 27 24	Seminary	3.86866	7,390
	77 02 29.06	701.6	215 01 22	35 02 34	Godding	3.68302	4,820
Notley Hall, 1901	38 46 32.075	989.0	128 31 00.0	308 28 17.4	Seminary	3.903019	7,998.7
	77 01 11.908	287.5	196 50 46.6	16 51 10.1	Godding	3.494208	3,120.4
Dunn (Va.), 1901	38 45 12.538	386.6	162 35 56.7	342 34 56.2	Seminary	3.891426	7,788.0
	77 03 54.788	1,322.9	238 02 05.1	58 03 47.1	Notley Hall	3.666008	4,634.6
Supplementary points							
St. Thomas Church, spire, 1901	38 27 55.972	1,725.9	341 40 08.3	161 44 19.5	Popes Creek 2	4.495927	31,327.6
	77 01 27.254	660.7	343 51 58.3	163 53 39.7	Lower Cedar 2	4.154341	14,267.3
			354 18 44.0	174 19 10.0	Persimmon 2	4.007479	10,173.7
			354 31 28.7	174 32 18.7	Rosier 2	4.315311	20,668.6
			20 11 07.4	200 09 54.3	Mathias 2	3.917799	8,275.6
			32 34 13.0	212 33 33.7	Windmill 2	3.454545	2,848.0
			42 36 33.9	222 32 17.4	Metomkin 2	4.169989	14,790.7
River gable of high white barn, 1901	38 28 06.601	203.5	321 12 56.2	141 14 34.2	Bluff 2	3.785699	6,105.2
	77 02 54.181	1,313.6	336 35 16.1	156 37 51.5	Lower Cedar 2	4.184425	15,290.6
			343 23 08.2	163 24 28.0	Persimmon 2	4.037669	10,906.1
			348 06 00.1	168 06 14.7	Windmill 2	3.445271	2,787.9

Potomac River, Lower Cedar Point to District of Columbia—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
Riverside Wharf, warehouse, river gable, 1901	38 23 08.957	276.2	243 10 31.9	63 12 31.9	Upper Cedar 2	3.720568	5,254.9
	77 08 42.915	1,041.5	250 10 51.0	70 16 05.6	Bluff 2	4.115836	13,056.8
			261 59 28.0	82 02 45.5	Mathias 2	3.891681	7,792.6
			344 35 20.0	164 35 34.2	Metomkin 2	3.325991	2,118.3
			59 43 22.2	239 42 33.1	Adams 2	3.345032	2,213.3
Brick chimney (A) 2½-story house, 1901	38 23 55.736	1,718.6	254 46 00.6	74 47 27.9	Upper Cedar 2	3.548164	3,533.2
	77 07 50.141	1,216.7	273 10 54.6	93 13 39.3	Mathias 2	3.809280	6,445.8
			338 50 58.9	158 51 32.6	Stuart 2	3.561679	3,644.8
			11 38 48.1	191 38 29.5	Metomkin 2	3.551176	3,557.8
Lyon's barn, north cupola ventilator, 1901	38 24 38.251	1,179.4	10 43 14.3	190 42 34.8	Shell Bank	3.919340	8,305.0
	76 59 51.242	1,243.1	18 10 40.5	198 10 06.7	Persimmon 2	3.627217	4,238.5
			72 09 10.1	252 06 57.3	Mathias 2	3.736207	5,447.6
			87 21 22.6	267 17 52.3	Upper Cedar 2	3.914832	8,219.2
Chapel Point, windmill of Belview Hotel, 1901	38 27 53.755	1,657.5	351 29 46.0	171 30 24.6	Persimmon 2	4.007189	10,166.9
	77 01 47.652	1,155.2	17 02 44.5	197 01 44.0	Mathias 2	3.905948	8,052.8
			24 00 24.1	203 59 57.5	Windmill 2	3.406984	2,552.6
Maryland Point Lighthouse, 1901	38 20 59.167	1,824.4	29 30 09.5	209 29 54.8	Grimes 2	3.069519	1,173.6
	77 11 52.349	1,271.1	144 10 26.1	324 10 04.7	Maryland 2	3.156409	1,433.5
			222 57 07.3	42 58 16.1	Adams 2	3.595854	3,943.2
			249 11 40.3	69 13 52.4	Metomkin 2	3.742077	5,521.8
			283 49 40.2	103 50 42.7	Wheat 2	3.400865	2,516.9
Engineers Flag No. 7, (U. S. E.), 1901	38 22 21.933	676.2	327 16 06.9	147 17 05.6	Grimes 2	3.628139	4,247.6
	77 13 50.717	1,231.1	34 44 17.0	214 42 58.4	Tanzy	3.731947	5,394.4
			74 01 26.7	253 59 17.1	Marlborough	3.722155	5,274.2
Engineers Flag No. 6½, (U. S. E.), 1901	38 22 43.18	1,331.5	217 10 22	37 10 22	Thom	0.67164	4.695
	77 14 41.20	999.8	320 11 59	140 13 29	Grimes 2	3.740599	5,503.0
Engineers Flag near Matt, (U. S. E.), 1901	38 33 11.374	350.7	49 58 47.8	229 58 45.6	Matt	2.042811	110.4
	77 14 07.376	178.6	113 45 47.6	293 44 58.3	Cockpit	3.320134	2,089.9
			165 23 28.6	345 23 00.9	Fairfax	3.628536	4,251.4
Carpenter house chimney, west end of main building, 1901.	38 22 25.243	778.4	327 57 03.8	147 58 02.6	Grimes 2	3.637082	4,335.9
	77 13 50.889	1,235.3	34 05 37.9	214 04 19.5	Tanzy	3.738484	5,476.3
			72 57 04.1	252 54 54.6	Marlborough	3.724209	5,299.2
Clifton Beach Wharf, middle outside end, 1901	38 24 49.096	1,513.8	359 48 28.8	179 48 29.4	Tanzy	3.952854	8,971.3
	77 15 58.515	1,419.6	18 10 59.5	198 10 09.1	Marlborough	3.799720	6,305.5
			103 27 47.7	283 25 46.0	Waller	3.688848	4,884.8
			175 45 12.7	355 45 02.2	Liverpool 2	3.747549	5,591.8
			189 32 42.3	9 32 43.5	Smith 2	2.443996	278.0
Liverpool Wharf, warehouse, river gable, 1901	38 27 36.300	1,119.3	355 33 45.8	175 33 55.5	Smith 2	3.689851	4,896.1
	77 16 12.230	296.5	47 42 39.0	227 40 45.8	Waller	3.776126	5,972.1
			109 08 59.7	289 07 10.3	Fishery	3.654448	4,512.8
			169 01 58.5	349 01 56.3	Liverpool 2	2.632150	428.7
Captain Baker's house, west river gable, 1901	38 27 36.911	1,138.1	356 42 05.7	176 42 13.0	Smith 2	3.690942	4,908.4
	77 16 08.257	200.2	48 11 33.7	228 09 38.0	Waller	3.782202	6,056.2
			108 32 05.6	288 30 13.7	Fishery	3.662559	4,597.9
Sandy Point, old wharf, outside pile, 1901	38 28 56.833	1,752.4	351 24 45.2	171 24 53.2	Liverpool 2	3.319260	2,085.7
	77 16 28.440	689.3	75 28 13.1	255 26 33.8	Fishery	3.601845	3,998.0
			194 36 07.9	14 36 13.0	Sandy 2	2.895195	785.6
Iron chimney, Indianhead, 1901	38 35 15.322	472.5	44 59 14.5	224 53 49.0	Fishery	4.253007	17,906.3
	77 10 25.879	626.3	45 55 40.3	225 52 37.3	Budds Ferry 2	3.995215	9,890.4
			53 03 50.5	232 59 35.4	Quantico	4.093360	12,398.2
			54 27 53.7	234 25 33.4	Matt	3.825733	6,694.7
			67 44 56.6	247 41 49.2	Cockpit	3.895472	7,860.9
			92 37 20.3	272 34 34.5	Fairfax	3.808860	6,439.6
			226 27 31.9	46 29 53.2	Pamunkey	3.877743	7,546.5
Fritz, 1902 [1]	38 35 03.22	99.3	47 10 38	227 09 01	Matt	3.714050	5,176.7
	77 11 34.06	824.4	65 09 05	245 06 40	Cockpit	3.792290	6,198.5
High Point (Va.), 1902	38 37 04.579	141.2	21 11 50.8	201 10 38.3	Matt	3.891437	7,788.2
	77 12 14.568	352.4	36 11 24.9	216 09 25.3	Cockpit	3.895697	7,865.0
			51 01 44.2	231 00 06.2	Fairfax	3.689380	4,890.8
Gunston (Va.), 1902	38 39 00.293	9.0	142 39 06.0	322 38 36.2	Benvenue	3.278278	1,897.9
	77 08 12.421	300.3	188 19 09.0	8 19 19.5	Whitestone Point	3.448951	2,811.6
			229 44 41.6	49 45 28.8	Gut	3.379426	2,395.7
Hallowing Point (Va.), 1902	38 38 09.927	306.1	12 10 40.4	192 10 24.6	Glymont	3.461856	2,896.4
	77 07 52.756	1,276.1	179 05 39.9	359 05 38.1	Whitestone Point	3.637043	4,335.5
			203 34 15.9	23 34 50.8	Gut	3.529336	3,383.3
			276 02 42.9	96 03 28.5	Pamunkey	3.249594	1,776.6

[1] No check on this position.

Potomac River, Lower Cedar Point to District of Columbia—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
Mathias Point Shoal beacon (Va.), 1901	38 24 19.026	586.7	48 02 18.6	228 01 47.8	Mathias 2	3.207560	1,612.7
	77 02 35.509	861.7	92 51 16.2	272 49 27.9	Upper Cedar 2	3.626353	4,230.1
			181 37 48.2	1 37 51.3	Windmill 2	3.632546	4,290.9
			236 11 19.6	56 12 46.0	Bluff 2	3.608264	4,057.6
Mathias Point beacon (Va.), 1901	38 24 47.151	1,453.8	175 55 19.7	355 55 13.3	Windmill 2	3.535366	3,430.6
	77 02 20.415	495.3	245 10 15.3	65 11 32.2	Bluff 2	3.519997	3,311.3
			288 05 56.9	108 07 39.0	Railroad	3.622891	4,196.5
			326 18 23.6	146 20 38.0	Lower Cedar 2	3.976529	9,473.9
			331 52 40.5	151 53 39.3	Persimmon 2	3.688148	4,876.9
Upper Cedar Point Lighthouse, 1901	38 24 10.318	318.1	122 41 08.3	302 40 49.2	Upper Cedar 2	2.947032	885.2
	77 04 58.932	1,430.0	218 18 04.5	38 19 36.8	Windmill 2	3.764073	5,808.6
			271 12 27.7	91 15 48.4	Railroad	3.894150	7,837.0
			289 32 26.8	109 33 25.2	Mathias 2	3.383928	2,420.6
Metomkin Point beacon, 1901	38 22 31.996	986.6	90 39 45.7	270 38 53.1	Adams 2	3.312719	2,054.6
	77 08 37.021	898.6	232 19 26.3	52 21 22.7	Upper Cedar 2	3.759235	5,744.3
			245 22 07.2	65 27 18.2	Bluff 2	4.125665	13,355.6
			253 37 35.5	73 40 49.4	Mathias 2	3.897278	7,893.7
			288 25 14.6	108 26 17.5	Stuart 2	3.412572	2,585.7
			335 03 10.5	155 03 21.1	Metomkin 2	2.998006	995.4
Chick, 1901	38 32 28.491	878.5	27 06 06.2	207 05 43.3	Budds Ferry	3.290659	1,952.8
	77 14 42.504	1,029.4	57 57 31.6	237 55 56.6	Quantico	3.639184	4,357.0
			153 51 26.0	333 50 58.7	Cockpit	3.382181	2,410.9
White chimney of house below Gut, 1902	38 39 35.045	1,080.6	20 55 03.5	200 54 09.7	Glymont	3.766447	5,840.5
	77 06 51.827	1,253.1	61 12 05.8	241 11 15.5	Gunston	3.347123	2,223.9
			98 02 14.0	278 00 53.9	Benvenue	3.495635	3,130.7
			137 58 39.2	317 57 59.4	Whitestone Point	3.362218	2,302.6
River gable of old barn below Gut, 1902	38 39 36.049	1,111.6	60 42 31.6	240 41 40.8	Gunston	3.352770	2,253.0
	77 06 51.162	1,237.0	97 26 14.1	277 24 53.6	Benvenue	3.497267	3,142.4
			137 09 36.8	317 08 56.5	Whitestone Point	3.359949	2,290.6
Large brick chimney, old cabin above Pamunkey, 1902.	38 38 28.746	886.4	14 35 22.2	194 35 17.0	Pamunkey	2.899347	793.1
	77 06 31.452	760.6	37 04 57.4	217 03 50.8	Glymont	3.631014	4,275.8
			53 55 01.0	233 52 44.8	Indianhead	3.814532	6,524.3
			111 43 49.8	291 42 46.7	Gunston	3.419684	2,628.3
			124 38 33.8	304 37 00.9	Benvenue	3.640149	4,366.7
			151 33 27.1	331 32 34.5	Whitestone Point	3.630475	4,270.5
North gable, long shed near Pamunkey, 1902	38 38 05.780	178.2	41 46 01.4	221 44 59.1	Glymont	3.559182	3,623.9
	77 06 38.240	924.9	126 26 07.6	306 25 08.8	Gunston	3.451907	2,830.8
			132 56 24.7	312 54 56.1	Benvenue	3.670542	4,683.2
			157 16 06.8	337 15 18.5	Whitestone Point	3.684755	4,839.0
Marshall Hall, dining pavilion, flagstaff, 1902	38 41 09.116	281.1	60 42 39.9	240 40 46.3	Benvenue	3.701857	5,033.3
	77 05 58.469	1,413.2	67 12 20.5	247 11 07.2	Whitestone Point	3.487286	3,071.0
			97 35 51.4	277 35 00.3	Dogue	3.299726	1,994.0
			159 24 20.8	339 24 08.5	Ferry Point	3.130223	1,349.7
Next house, front gable (near Pamunkey), 1902	38 38 27.447	846.3	14 57 10.3	194 57 05.3	Pamunkey	2.876790	753.0
	77 06 31.680	766.2	54 10 26.2	234 08 10.4	Indianhead	3.812667	6,496.3
			112 34 58.6	292 33 55.7	Gunston	3.421337	2,638.4
			125 06 50.9	305 05 18.2	Benvenue	3.641975	4,385.1
Craney Island, tree, 1902	38 37 32.274	995.2	247 48 44.2	67 49 45.9	Pamunkey	3.411521	2,579.4
	77 08 18.461	446.6	359 37 33.5	179 37 33.8	Glymont	3.222775	1,670.2
			51 55 16.9	231 54 07.6	Indianhead	3.532636	3,409.1
Glymont, wharf house, river gable, 1902	38 36 41.520	1,280.3	78 58 27.3	258 57 16.2	Indianhead	3.448749	2,810.3
	77 08 15.365	371.7	100 24 47.9	280 22 46.0	Knight	3.681461	4,802.4
			114 36 40.2	294 35 20.0	Sycamore	3.533906	3,419.1
			198 03 16.7	18 04 05.8	Gut	3.787386	6,128.9
			222 20 19.5	42 21 19.3	Pamunkey	3.535932	3,435.0
White chimney of house near Glymont Wharf, 1902	38 36 39.056	1,204.3	101 16 55.0	281 14 52.8	Knight	3.683514	4,825.2
	77 08 15.008	363.1	115 41 44.3	295 40 23.7	Sycamore	3.538968	3,452.1
			197 45 40.6	17 46 29.4	Gut	3.792291	6,198.6
			221 23 35.0	41 24 34.5	Pamunkey	3.542309	3,485.9
Chapman's fish house, river gable, 1902	38 37 18.491	570.2	52 52 00.0	232 51 17.6	Glymont	3.314372	2,062.4
	77 07 10.053	243.2	68 52 11.5	248 50 19.5	Indianhead	3.667587	4,651.4
			93 28 27.6	273 26 26.5	Sycamore	3.671819	4,697.0
			169 28 05.3	349 27 36.9	Whitestone Point	3.779783	6,022.6
			183 54 41.0	3 54 49.3	Gut	3.671901	4,697.9
			207 40 58.8	27 41 17.8	Pamunkey	3.198546	1,579.6
House below Chapman's Landing, white chimney, 1902.	38 37 12.178	375.5	69 23 08.4	249 21 26.6	Indianhead	3.624301	4,210.2
	77 07 26.505	641.2	173 26 30.0	353 26 11.8	Whitestone Point	3.789302	6,156.0
			188 22 11.5	8 22 30.0	Gut	3.693215	4,934.2
Marshall Hall Wharf, lower corner, 1902	38 41 12.18	375.6	59 21 36	239 19 45	Benvenue	3.70046	5,017
	77 06 01.50	36.3	95 04 39	275 03 50	Dogue	3.28121	1,911
			161 02 30	341 02 20	Ferry Point	3.09200	1,236

Potomac River, Lower Cedar Point to District of Columbia—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
Fort Washington Lighthouse, finial, 1902	38 42 44.160	1,361.7	55 27 33.6	235 26 23.2	Bryants Point	3.529442	3,307.1
	77 02 14.118	341.1	62 01 17.4	241 58 56.1	Marshall Point	3.791289	6,184.3
			86 43 25.7	266 41 40.0	Mount Vernon 2	3.611914	4,091.8
Fort Washington, fog-bell tower, finial, 1902	38 42 44.125	1,360.6	55 34 33.2	235 33 22.4	Bryants Point	3.520479	3,315.0
	77 02 13.691	330.8	62 04 30.6	242 02 09.0	Marshall Point	3.791894	6,192.9
			86 44 49.4	266 43 03.4	Mount Vernon 2	3.613001	4,102.1
Pile at lower corner of old wharf, Deep Point, 1901.	38 34 29.767	917.9	45 52 58.0	225 51 51.9	Matt	3.553123	3,573.7
	77 12 24.909	603.0	70 17 20.3	250 15 27.1	Cockpit	3.669044	4,667.1
			194 55 20.1	14 55 54.0	Knight	3.707684	5,101.3
			208 05 20.1	28 06 35.6	Sycamore	3.793711	6,218.9
Old house, Mockley Point, chimney, 1902	38 42 02.980	91.9	72 11 44.9	252 10 56.0	Bryants Point	3.296760	1,980.4
	77 02 48.817	1,179.6	107 41 23.5	287 39 59.5	Mount Vernon 2	3.532487	3,407.9
Pole, center of chute, River View, 1902	38 43 25.103	774.1	46 52 32.6	226 51 05.9	Bryants Point	3.661775	4,589.6
	77 01 48.227	1,165.0	55 37 47.9	235 35 10.3	Marshall Point	3.867755	7,374.9
			72 22 51.8	252 20 49.8	Mount Vernon 2	3.693951	4,942.5
Chapman's house, cupola, 1902	38 37 04.89	150.8	98 04 00	278 01 51	Sycamore	3.70066	5,019
	77 06 58.42	1,413.3	167 42 11	347 41 35	Whitestone Point	3.81222	6,490
			180 26 19	0 26 20	Gut	3.70813	5,107
			193 58 14	13 58 26	Pamunkey	3.27271	1,874
Iron derrick on wharf, Indianhead, 1902 [1]	38 36 02.07	63.8	161 18 43	341 18 25	Knight	3.34222	2,199
	77 11 01.48	35.8	199 01 17	19 01 40	Sycamore	3.44594	2,792
Chimney of white house at Indianhead, 1902 [1]	38 35 43.23	1,333.0	162 47 48	342 47 26	Knight	3.44539	2,789
	77 10 56.51	1,367.5	193 46 47	13 47 07	Sycamore	3.52061	3,316
Lower chimney house on bluff above Indianhead, 1902.[1]	38 36 17.10	527.3	130 13 43	310 12 53	Knight	3.39937	2,508
	77 10 11.45	277.1	172 08 38	352 08 30	Sycamore	3.34182	2,197
Chimney, old yellow house above Pamunkey, 1902.[1]	38 38 26.68	822.7	40 06 56	220 05 43	Glymont	3.64118	4,377
	77 06 21.45	518.8	55 34 53	235 32 30	Indianhead	3.82512	6,685
Red chimney, old cabin at Pamunkey Creek, 1902.[1]	38 38 12.64	389.8	46 02 11	226 00 53	Glymont	3.62304	4,198
	77 06 13.12	317.3	67 09 36	247 09 19	Pamunkey	2.84376	698
Engine house, Marshall Hall, flag pole, 1902 [1]	38 41 06.64	204.7	100 11 21	280 10 32	Dogue	3.28375	1,922
	77 06 01.98	47.9	163 46 24	343 46 14	Ferry Point	3.14469	1,395
Flag pole below Marshall Hall, 1902 [1]	38 41 02.63	81.1	69 27 00	249 25 51	Whitestone Point	3.45024	2,820
	77 06 06.36	153.7	104 33 06	284 32 20	Dogue	3.26600	1,845
Chimney, Hungerford's house, river gable, 1902.[1]	38 40 46.36	1,429.5	124 04 14	304 03 37	Dogue	3.23637	1,723
	77 06 21.18	512.0	182 09 42	2 09 43	Ferry Point	3.29374	1,967
End of wharf, Bryants Point, 1902 [1]	38 41 46.60	1,436.9	91 54 05	271 52 40	Ferry Point	3.51422	3,268
	77 04 02.97	71.8					
Marshall Hall, elevator of dining hall, finial 1902.[1]	38 41 09.65	297.6	97 04 17	277 03 25	Dogue	3.30284	2,008
	77 05 57.78	1,396.5	158 29 47	338 29 34	Ferry Point	3.12720	1,340
Marshall Hall, tower, flag pole, 1902 [1]	38 41 05.11	157.6	60 42 32	240 40 45	Benvenue	3.67952	4,781
	77 06 07.58	183.2	67 47 00	247 45 52	Whitestone Point	3.45031	2,820
Roziers (C.), house, west gable [1]	38 46 31.47	970.4	108 34 02	288 31 51	Lyon	3.72646	5,327
	77 01 08.63	208.3	201 58 53	21 59 21	Oxon Hill	3.46158	2,895
River Farm, barn, cupola, (Va.), 1901	38 42 42.156	1,299.8	6 37 53	186 37 48	Bryants Point	3.261493	1,826.0
	77 03 58.116	1,404.2					
River Farm, house, cupola (Va.), 1901	38 42 41.401	1,276.6	3 35 29	183 35 26	Bryants Point	3.253834	1,794.0
	77 04 02.192	53.0					
Yellow house (red roof) chimney, 1901 [1]	38 45 51.19	1,578.3	48 49 45	228 46 47	Mount Vernon	3.959629	9,112.3
	77 00 18.70	451.4					
Mount Vernon, flagstaff (Va.), 1901	38 42 27.166	837.6	311 13 59.4	131 14 39.3	Bryants Point	3.311808	2,050.3
	77 05 10.644	257.2	26 40 10.6	206 39 39.7	Marshall Point	3.425258	2,662.3
Mount Vernon wharf, cupola (Va.), 1901 [1]	38 42 17.26	532.3	301 20 54	121 21 38	Bryants Point	3.30332	2,011
	77 05 17.89	432.4					
Point Sheridan, stack (Va.), 1901 [1]	38 42 42.36	1,306.2	39 52 02	219 51 23	Bryants Point	3.37497	2,371
	77 03 03.95	95.3					
Point Sheridan, lower derrick (Va.), 1901 [1]	38 42 24.10	743.1	54 13 58	234 13 13	Bryants Point	3.33249	2,150
	77 02 54.65	1,320.3					
Fort Hunt, water tower (Va.), 1901	38 42 58.382	1,800.2	35 33 59	215 33 16	Bryants Point	3.454024	2,844.6
	77 02 58.376	1,410.4					
Fort Hunt, flagstaff (Va.), 1901	38 42 56.456	1,740.8	77 39 30	257 38 17	Mount Vernon	3.457744	2,869.1
	77 03 06.592	159.3					
Bryants Point, flagstaff, 1901	38 41 43.961	1,355.5	136 10 08	316 09 28	Mount Vernon	3.351837	2,248.2
	77 03 58.155	1,405.4					

[1] No check on this position.

Potomac River, Lower Cedar Point to District of Columbia—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Supplementary points—Continued	° ′ ″		° ′ ″	° ′ ″			
Notley Hall, pole on house, 1901	38 46 31.486 77 01 08.520	970.9 205.7	37 59 11.0	217 56 44.5	Mount Vernon	3.963268	9,189.0
Point Sheridan, derrick on middle of wharf (Va.), 1901.	38 42 32.086 77 03 00.018	989.3 0.4	47 03 14	227 02 32	Bryants Point	3.343637	2,206.2
Indianhead standpipe, 1901	38 35 10.929 77 10 16.906	337.0 409.1	45 47 02.9 47 21 32.6 54 09 38.5 56 27 36.2 69 14 06.5 93 42 06.9	225 41 32.0 227 18 24.2 234 05 18.0 236 25 10.5 249 10 53.7 273 39 15.7	Fishery Budds Ferry 2 Quantico Matt Cockpit Fairfax	4.254447 3.998058 4.096656 3.832308 3.903811 3.823731	17,965.8 9,955.4 12,492.7 6,796.9 8,013.3 6,663.9
Indianhead, flagstaff, 1901	38 36 02.888 77 10 54.560	89.0 1,320.2	41 34 39.9 45 56 21.8 55 58 14.6 78 27 06.7 157 01 58.4 195 51 12.4	221 32 37.5 225 52 24.6 235 55 25.1 258 24 38.8 337 01 35.9 15 51 31.6	Matt Quantico Cockpit Fairfax Knight Sycamore	3.855079 4.108016 3.899877 3.767700 3.349293 3.434238	7,162.7 12,823.8 7,941.0 5,857.3 2,235.1 2,717.9
Fox Ferry, boundary stone (D. C.-Md.), 1884 [1]	38 48 05.57 77 01 35.39	171.8 853.9	134 50 01	314 50 01	Fox Ferry	1.47509	29.86
Lyon (Va.), 1863	38 47 26.43 77 04 37.79	815.0 912.0	260 48 36	80 51 15	Oxon Hill	3.793197	6,211.5
Shearer's lightning rod on east chimney, 1884	38 52 27.38 76 55 35.09	844.1 845.8					
Jones Point Lighthouse (Va.), 1863	38 47 25.34 77 02 27.12	781.5 654.5					
Red, 1913	38 56 05.747 77 06 51.406	177.2 1,238.1					
Rap, 1913	38 56 04.087 77 07 08.917	126.0 214.8	263 04 48.8	83 04 59.8	Red	2.628240	424.9

Vicinity of District of Columbia

Principal points							
District of Columbia, south corner stone, 1884	38 47 25.15 77 02 27.01	775.6 651.8					
Addison, 1884	38 49 30.91 76 58 44.43	952.9 1,071.6					
Lyon, 1884	38 48 08.64 77 00 40.86	266.5 985.9					
Sumner, 1880	38 57 18.77 77 07 30.77	578.8 740.9					
Godding, 1901	38 48 08.924 77 00 34.432	275.1 830.8	105 34 04.4	285 30 58.3	Seminary (new)	3.871295	7,435.2
District of Columbia, boundary stone, near Little Fall, 1884.	38 56 15.29 77 06 57.32	471.5 1,380.4	171 47 26	351 47 23	Locust	2.98059	956
Clump, 1884	38 59 52.42 77 02 54.71	1,616.5 1,316.4					
Cissel, 1884	39 00 06.34 77 02 39.61	195.5 953.1					
District of Columbia, north corner stone, 1884	38 59 45.38 77 02 28.48	1,399.4 685.3	108 59 08 157 29 36	288 58 51 337 29 29	Clump Cissel	2.82433 2.84485	667 700
Godfrey, 1884	38 53 50.73 76 54 43.29	1,564.4 1,043.2	198 39 24	18 39 30	Wright	2.84293	697
Wood, 1884	38 53 24.79 76 54 47.05	764.5 1,133.9	186 27 51 260 06 22	6 27 54 80 06 34	Godfrey Lee	2.90582 2.67773	805 476
District of Columbia, east corner stone, 1884	38 53 34.23 76 54 33.94	1,055.5 817.9	323 48 30 47 21 15	143 48 34 227 21 07	Lee Wood	2.41372 2.63304	259 430
Bailey, 1892	39 05 05.000 77 11 53.330	154.2 1,281.8	62 54 24.5 139 29 16.1	242 35 20.0 319 21 51.7	Bull Run Sugar Loaf	4.692458 4.414391	49,255.9 25,965.2
Wright, 1880	38 54 12.13 76 54 34.04	374.0 820.1					

[1] No check on this position.

Vicinity of District of Columbia—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″						
Alexandria Episcopal High School Va.), 19)01	38 49 12.082	372.5	308 09 05	128 11 48	Notley Hall	3.902174	7,750.0
	77 05 31.971	771.3	342 22 28	162 23 29	Dunn	3.889301	7,983.1
Rockville astronomical latitude station, 1892	39 05 11.21	345.8					
	77 09 36.65	880.8					
			° ′ ″	° ′ ″			
Washington Monument, apex of obelisk (D.C.)	38 53 22.016	678.9	89 20 35.1	268 55 25.4	Bull Run	4.763186	57,967.6
	77 02 07.779	187.5	143 17 57.6	323 04 25.1	Sugar Loaf	4.713591	51,711.9
Home (D. C.), 1912	38 56 29.785	918.4	292 47 44.4	112 52 40.12	Hill	4.090102	12,305.6
	77 00 40.528	976.0	358 19 16.7	178 19 21.12	Capitol, head of Liberty	3.760021	5,754.7
			27 32 53.0	207 29 50.40	Seminary (new), cross	4.180958	15,169.0
Insane (D. C.), 1912	38 51 17.279	532.8	64 26 02.8	244 22 35.63	Seminary (new), cross	3.946095	8,832.7
	77 00 01.051	25.3	168 36 20.0	348 35 59.61	Capitol, head of Liberty	3.597970	3,962.5
			174 21 56.0	354 21 31.19	Home	3.986029	9,683.4
Training (D. C.), 1912	38 55 30.799	949.7	293 18 11.8	113 21 10.6	Hill	3.873156	7,467.2
	76 57 34.352	827.5	24 20 51.1	204 19 19.0	Insane	3.933486	8,580.0
			47 40 49.3	227 38 56.8	Capitol, head of Liberty	3.766440	5,840.4
			112 05 41.9	292 03 44.9	Home	3.684762	4,839.1
Wallace, 1917	38 56 23.876	736.3	335 09 42.9	155 10 38.4	Hill	3.704287	5,061.6
	76 54 17.991	433.3	70 55 43.5	250 53 40.1	Training	3.699387	5,004.8
			91 09 59.1	271 05 58.7	Home	3.964477	9,214.6
Holmead, 1917	38 55 28.730	886.0	45 13 49.9	225 12 33.9	Hill	3.613557	4,107.3
	76 50 48.755	1,174.5	108 39 50.5	288 37 39.0	Wallace	3.725821	5,318.9
Takoma, 1917	38 58 40.250	1,241.2	295 51 19.5	115 55 05.7	Wallace	3.983723	9,632.1
	77 00 17.899	430.8	326 00 05.5	146 01 48.2	Training	3.847910	7,045.5
			7 42 51.8	187 42 37.6	Home	3.608511	4,059.9
Park, 1917	38 58 44.163	1,361.9	296 39 27.0	116 43 11.7	Wallace	3.983702	9,631.7
	77 00 15.404	370.8	326 56 46.8	146 58 28.0	Training	3.852047	7,112.9
			8 18 25.7	188 18 09.9	Home	3.621977	4,187.7

Cedar, 1917	39 00 33.147	1,022.2	358 01 12.1	178 01 23.3	Hill	4.089471	12,287.7
	76 53 07.379	177.5	12 28 31.8	192 27 47.4	Wallace	3.896109	7,872.4
			55 30 45.0	235 26 00.0	Home	4.121896	13,240.2
			71 27 51.7	251 23 20.9	Takoma	4.038621	10,930.0
			71 58 03.8	251 53 34.5	Park	4.034830	10,835.0
Garfield, (D. C.) 1917	38 51 06.041	186.3	97 47 04.1	277 45 58.1	Insane	3.408457	2,561.3
	76 58 15.808	381.2	160 45 22.2	340 43 51.3	Home	4.024270	10,574.7
			186 58 24.5	6 58 50.5	Training	3.915141	8,225.1
Gerst, 1917	38 50 45.781	1,411.7	99 41 52.1	279 40 16.9	Garfield	3.569818	3,713.8
	76 55 43.997	1,061.1	146 03 31.6	326 00 25.4	Home	4.106885	12,790.4
Pisgah, 1917	39 00 50.645	1,561.7	350 32 33.9	170 33 16.8	Training	3.999947	9,998.8
	76 58 42.554	1,023.8	19 27 15.0	199 26 00.8	Home	3.930982	8,530.6
			29 48 54.9	209 47 56.5	Park	3.652732	4,495.0
Reno, (D. C.) 1917	38 57 09.355	288.5	245 24 20.9	65 27 07.9	Park	3.847011	7,030.9
	77 04 41.000	987.2	246 06 26.6	66 09 12.2	Takoma	3.840525	6,926.7
			281 52 40.0	101 55 11.2	Home	3.772180	5,918.1
Chevy, 1917	38 58 40.449	1,247.3	270 01 45.7	90 04 37.7	Takoma	3.818302	6,581.2
	77 04 51.305	1,235.0	303 41 38.3	123 44 16.0	Home	3.860873	7,258.9
			354 57 07.3	174 57 13.7	Reno	3.450246	2,820.0
Ken, 1917	39 01 43.036	1,327.1	329 02 41.3	149 05 12.6	Home	4.051598	11,261.5
	77 04 41.051	987.4	359 59 30.4	179 59 30.4	Reno	3.926316	8,439.5
			2 30 36.5	182 30 30.0	Chevy	3.750959	5,635.8
Wheaton, 1917	39 02 27.491	847.7	328 29 36.0	148 31 28.4	Takoma	3.914751	8,217.7
	77 03 16.312	392.3	341 12 50.8	161 14 28.8	Home	4.066337	11,650.3
			56 04 54.2	236 04 00.8	Ken	3.390276	2,456.3
Dulce, 1917	38 59 22.853	704.7	297 31 34.3	117 32 39.9	Chevy	3.451557	2,828.5
	77 06 35.510	854.6	326 10 57.4	146 12 09.4	Reno	3.694988	4,954.4
Beth, 1917	38 58 52.435	1,617.0	114 29 08.4	294 28 14.6	Dulce	3.354828	2,263.7
	77 05 09.909	238.5	187 30 59.6	7 31 17.8	Ken	3.724804	5,306.4
			309 32 06.0	129 32 17.7	Chevy	2.763915	580.7
Beach, 1917	39 02 44.193	1,362.8	302 26 28.5	122 27 46.2	Ken	3.545874	3,514.6
	77 06 44.362	1,066.8	340 05 43.3	160 06 54.5	Chevy	3.902732	7,993.4
			342 21 09.4	162 22 08.9	Beth	3.875021	7,499.3
Beach 2, 1924	39 02 44.149	1,361.4	301 37 19.0	121 38 39.2	Ken	3.555477	3,593.2
	77 06 48.252	1,160.4	339 27 48.0	159 29 01.6	Chevy	3.904415	8,024.4

Vicinity of District of Columbia—Continued

Station	Latitude and longitude	Seconds in meters	Azimuth	Back azimuth	To station	Distance	
						Log (meters)	Meters
Principal points—Continued	° ′ ″		° ′ ″	° ′ ″			
Wheaton 2, 1924	39 02 33.349	1,028.4	15 09 19.0	195 08 28.0	Chevy	3.871601	7,440.5
	77 03 30.494	733.4	47 34 14.7	227 33 30.2	Ken	3.361602	2,299.3
			94 01 23.0	273 59 18.4	Beach 2	3.678286	4,767.4
Potomac, 1924	39 02 10.505	323.9	261 12 38.5	81 15 34.7	Beach 2	3.833053	6,808.5
	77 11 28.049	674.7	304 07 27.0	124 11 36.7	Chevy	4.062066	11,536.3
Rockville, 1924	39 04 55.983	1,726.4	301 42 32.4	121 45 39.0	Wheaton 2	3.922324	8,362.3
	77 08 26.306	632.3	329 53 00.5	149 54 02.3	Beach 2	3.672049	4,699.5
			335 55 01.1	155 57 16.5	Chevy	4.103211	12,682.7
			40 35 24.1	220 33 29.6	Potomac	3.827253	6,718.2
Hunting Hill, 1924	39 05 06.539	201.7	273 43 01.9	93 45 12.7	Rockville	3.698659	4,996.4
	77 11 53.744	1,291.8	353 30 18.2	173 30 34.4	Potomac	3.737468	5,463.5
Mill, 1924	39 08 30.162	930.1	326 18 15.8	146 20 11.4	Rockville	3.899653	7,936.9
	77 11 29.503	708.5	5 18 03.8	185 17 48.5	Hunting Hill	3.799767	6,306.2
			127 34 12.5	307 26 32.8	Sugar Loaf	4.342451	22,001.4
Supplementary points							
Navy Yard, east wireless tower (D. C.), 1917	38 52 21.824	673.0	208 31 46.5	28 33 09.1	Training	3.821740	6,633.5
	76 59 45.875	1,105.9	317 05 31.9	137 06 28.4	Garfield	3.503799	3,190.1
			10 25 01.8	190 24 52.3	Insane	3.306145	2,023.7
Potomac Electric Power Co., center one of three stacks (D. C.), 1917.	38 53 50.548	1,558.7	10 58 43.0	190 58 17.4	Garfield	3.713262	5,167.3
	76 57 34.998	843.4	36 41 44.3	216 40 12.6	Insane	3.770368	5,893.4
			180 17 17.5	0 17 17.9	Training	3.490163	3,091.5
Maryland Agricultural College, tank, 1917	38 59 03.976	122.6	241 52 14.8	61 54 29.4	Cedar	3.766112	5,836.0
	76 56 41.284	993.6	325 02 29.6	145 03 59.7	Wallace	3.779810	6,023.0
			50 28 54.6	230 26 24.2	Home	3.873261	7,469.0
Monastery, finial on dome (D. C.), 1917	38 56 14.931	460.4	101 35 48.2	281 34 49.9	Home	3.357965	2,280.2
	76 59 07.782	187.4	160 31 17.3	340 30 34.8	Park	3.688544	4,881.4
			267 42 41.3	87 45 43.4	Wallace	3.844157	6,984.8
Bureau of Standards, wireless pole (D.C.), 1917	38 56 31.156	960.8	143 26 19.4	323 25 56.5	Reno	3.166298	1,466.6
	77 04 04.721	113.7	174 48 29.4	354 48 06.5	Ken	3.984846	9,657.1
			270 28 29.6	90 30 37.9	Home	3.691770	4,917.8
St. Ann's Church, Tenleytown (D. C.), 1917	38 56 47.873	1,476.3	177 56 24.0	357 56 20.7	Chevy	3.540795	3,473.7
	77 04 46.117	1,110.6	190 32 13.9	10 32 17.1	Reno	2.828528	673.8
			275 21 57.9	95 24 32.3	Home	3.773832	5,940.6
Barn, white, east of Landover, square cupola, 1917.	38 57 00.213	6.6	307 59 01.4	128 00 35.6	Holmead	3.661100	4,582.5
	76 53 18.693	450.1	353 02 36.8	173 02 55.0	Hill	3.760161	5,756.5
			51 53 06.1	231 52 28.8	Wallace	3.258913	1,815.2
Standpipe (near station Dulce), 1917	38 59 11.479	354.0	211 31 54.9	31 33 09.9	Ken	3.739080	5,483.8
	77 06 40.278	969.4	290 01 59.1	110 03 07.6	Chevy	3.445918	2,792.0
			322 39 52.4	142 41 07.4	Reno	3.675390	4,735.8
Forest Glen, standpipe, 1917	39 00 39.889	1,230.0	16 10 03.6	196 09 14.4	Reno	3.829903	6,759.3
	77 03 22.838	549.5	62 53 13.7	242 51 12.4	Dulce	3.716798	5,209.5
			135 59 24.3	315 58 35.1	Ken	3.432615	2,707.8
Stanton School, standpipe (D. C.), 1917	38 51 32.325	996.8	291 53 39.0	111 55 11.8	Gerst	3.585096	3,846.8
	76 58 12.006	289.5	6 27 16.3	186 27 13.9	Garfield	2.911507	815.7
			80 00 06.9	259 58 58.5	Insane	3.426497	2,669.9
Hyattsville tank, 1917 [1]	38 57 15.69	483.8	75 59 57	255 57 29	Home	3.766589	5,842.4
	76 56 45.14	1,087.0	118 20 31	298 18 19	Park	3.759699	5,750.4
Yoe's, William, northwest chimney, 1884	38 50 17.21	530.9					
	76 57 53.52	1,290.6					
Blair's flagstaff	38 59 29.55	911.2					
	77 01 57.16	1,375.6					
Camp Hill 2, 1924	39 05 09.684	298.6	137 32 10.5	337 28 37.2	Sugar Loaf	4.326128	21,189.9
	77 17 59.164	1,422.0	236 31 31.9	56 35 37.7	Mill	4.049943	11,218.7
			270 36 01.8	90 39 52.2	Hunting Hill	3.943654	8,783.2
			300 24 13.4	120 28 19.9	Potomac	4.037693	10,906.7
Rockville, white spire, 1869 [1]	39 04 54.41	1,677.8	252 15 28	72 21 32	Stabler	4.162611	14,542
	77 08 43.04	1,048.9	22 11 46	202 08 35	Peach Grove	4.287105	19,369

[1] No check on this position.

GEOGRAPHIC POSITIONS, LOST POINTS

In the following list are given the positions only of points determined by the earlier surveys of Maryland, as well as of many points more recently determined, all of which are either known to have been destroyed or which for lack of adequate descriptions have been proved practically unrecoverable.

It is believed that the only value attaching to these positions, most of which are unadjusted, lies in the coordinating of the old work with the new.

No descriptions are published for these points.

Station	Latitude and longitude			Seconds in meters
HEAD OF CHESAPEAKE BAY TO POOLE ISLAND	°	′	″	
Mount Zion, 1844	39	33	42.78	1,319.3
	76	07	40.88	975.9
Stump Point, 1844	39	33	01.76	54.3
	76	04	09.05	216.1
Paca's house (south chimney), 1844.	39	33	00.14	4.3
	76	07	44.65	1,066.1
Lower Stump Point, 1844	39	32	47.79	1,473.8
	76	02	49.54	1,182.9
Carpenters Point, 1844	39	32	32.03	987.8
	76	00	39.30	938.4
Havre de Grace, 1844	39	32	18.86	581.6
	76	05	16.65	397.6
Red Bank, 1844	39	31	41.87	1,291.3
	75	58	51.20	1,222.9
Paradise, 1844	39	30	53.24	1,041.9
	76	08	26.75	639.0
Davis Point, 1844	39	30	42.69	1,316.6
	76	06	35.12	839.0
Bulls Mountain, 1844	39	30	26.30	811.1
	75	58	50.08	1,196.5
Shad Battery, 1844	39	29	39.76	1,226.2
	76	05	00.40	9.6
Mauldens Mountain, 1844	39	29	15.26	470.6
	75	59	26.95	644.0
High Lands of Narrows, 1844.	39	28	36.55	1,127.2
	76	06	02.19	52.3
Locust Point, 1844	39	28	24.79	764.5
	76	04	15.32	366.2
Turkey Point 2 (Johnston's).	39	26	58.33	1,798.8
	76	00	35.57	850.5
Sandy Point (Spesutie Island), 1844.	39	26	53.90	1,662.2
	76	03	43.56	1,041.6
Mulberry Point, 1844	39	26	42.72	1,317.4
	76	06	10.56	252.5
Bare Point, 1844	39	26	09.49	292.7
	76	04	50.87	1,216.6
Stephenson, 1844	39	24	33.95	1,047.0
	76	08	17.27	413.2
Coolspring, 1844	39	23	56.29	1,705.1
	76	02	19.85	475.0

Station	Latitude and longitude			Seconds in meters
HEAD OF CHESAPEAKE BAY TO POOLE ISLAND—con.	°	′	″	
Grove Point, 1844	39	23	31.90	983.8
	76	02	25.74	616.0
Canby, 1844	39	22	07.99	246.4
	76	03	41.34	989.6
Taylors Island, 1844	39	22	47.26	1,457.5
	76	10	35.08	839.6
Howells Point, 1844	39	22	18.76	578.5
	76	06	40.06	958.9
Battery, 1844	39	21	50.99	1,572.5
	76	10	44.42	1,063.4
Abbey Island, 1844	39	20	54.44	1,678.9
	76	13	36.53	874.7
Plum Point, 1844	39	20	06.82	210.3
	76	00	25.84	618.8
Legos Point, 1844	39	20	09.84	303.5
	76	15	15.03	360.0
Worton Point, 1844	39	19	06.55	202.0
	76	11	10.97	262.8
Grandview, (Del.), 1840	39	42	42.66	1,315.7
	75	42	22.72	541.2
Iron Hill, (Del.), 1840	39	38	20.48	631.4
	75	45	07.67	183.0
Swoitzer's farm, boundary mark between Maryland and Delaware, 1898.	39	11	59.32	1,829.4
	75	45	09.30	223.1
Schultheis's farm, boundary mark between Maryland and Delaware, 1898.	38	59	48.27	1,488.5
	75	44	10.87	261.5
Gravelly Hill, 1840	39	38	38.15	1,176.4
	75	57	50.51	1,204.3
Head of Christine, 1840	39	41	47.58	1,467.5
	75	47	40.12	955.7
Ash, 1840	39	38	05.88	181.3
	75	47	31.82	758.8
Bohemia Manor, 1840	39	28	50.07	1,544.1
	75	46	43.89	1,048.9
Betterton M. E. Church, spire, 1890.	39	21	47.18	1,455.1
	76	03	51.03	1,221.5

Station	Latitude and longitude			Seconds in meters
SUSQUEHANNA RIVER	°	′	″	
Havre de Grace spire, 1844	39	32	52.50	1,619.1
	76	05	32.69	780.5
Watsons Island, 1844	39	33	36.52	1,126.3
	76	05	11.57	276.2
Grovers Hill, 1844	39	33	47.67	1,470.1
	76	06	13.63	325.4
Ryans Hill, 1844	39	35	22.61	697.3
	76	04	39.91	952.4
Boyces Hill, 1844	39	35	40.84	1,259.5
	76	05	09.53	227.4
Boyd, 1844	39	35	33.10	1,020.8
	76	07	42.00	1,002.2
Lower Island, 1844	39	36	20.95	646.1
	76	07	46.87	1,118.2
Wells Hill, 1844	39	36	43.84	1,352.0
	76	07	16.28	388.4
NORTHEAST RIVER				
Hances Point, 1844	39	33	23.87	736.2
	75	58	09.59	229.0
Seneca Point, 1844	39	33	51.18	1,578.4
	75	59	24.64	588.2
Ford's farm, 1844	39	34	31.05	957.6
	75	57	09.19	219.3
Sweets Landing, 1844	39	35	31.33	966.2
	75	57	34.48	822.8
Egg Hill, 1844	39	30	33.42	1,030.7
	75	54	00.44	10.5
ELK RIVER				
Wroths Point, 1844	39	25	50.89	1,569.4
	75	59	40.06	1,173.4
Pearce, 1844	39	26	27.30	841.9
	75	58	10.84	259.2
Arnolds Bar, 1844	39	27	45.96	1,417.4
	75	57	59.40	1,420.0
Collar Neck, 1844	39	28	05.86	180.7
	75	59	33.56	802.3
Ford's Landing, 1844	39	28	19.36	597.1
	75	56	47.74	1,141.1
Ford, 1844	39	28	28.12	867.2
	75	56	21.10	504.3
Folks, 1844	39	29	10.33	318.6
	75	55	12.05	288.0
Town Point, 1844	39	29	45.43	1,401.1
	75	54	51.82	1,238.2
Martins High Bank, 1844	39	30	01.09	33.6
	75	56	08.63	206.2
Harts Hill, 1844	39	30	45.32	1,397.7
	75	57	12.02	287.1
Old field tree, 1844	39	30	57.60	1,776.4
	75	54	04.89	116.8
Pierce's (on Elk River), 1844.	39	31	00.32	9.9
	75	54	06.32	151.0
Fairview, 1844	39	31	15.32	472.5
	75	52	09.49	226.7
BOHEMIA RIVER	°	′	″	
Stony Battery, 1844	39	28	06.53	201.4
	75	54	25.54	610.5
Roberts Point, 1844	39	28	33.73	1,040.2
	75	54	17.19	410.9
Stony Point, 1844	39	28	45.32	1,397.7
	75	53	09.05	216.3
Pennington, 1844	39	28	05.57	171.8
	75	53	13.00	310.8
Bayard, 1844	39	27	59.41	1,832.2
	75	52	00.06	1.4
McLane, 1844	39	27	17.79	548.6
	75	51	59.03	1,411.3
SASSAFRAS RIVER				
Grove Fishery, 1844	39	23	08.31	256.3
	76	01	47.48	1,136.3
Bloomfield, 1844	39	21	43.69	1,347.4
	76	01	16.36	391.7
Old Orchard Point, 1844	39	23	07.08	218.3
	76	00	10.84	259.4
Goldsborough, 1844	39	22	04.30	132.6
	76	00	04.55	108.9
Honory Point, 1844	39	22	46.87	1,445.4
	75	59	10.36	248.0
Susberry, 1844	39	21	45.59	1,406.0
	75	58	34.99	837.7
Cassidy, 1844	39	22	54.65	1,685.4
	75	58	02.21	52.9
Clarke, 1844	39	21	53.11	1,637.9
	75	57	50.30	1,204.2
Knights Island, 1844	39	22	22.23	685.6
	75	56	23.44	561.1
Ferguson, 1844	39	21	25.74	793.8
	75	56	09.97	238.7
Wicker, 1844	39	22	13.72	423.1
	75	54	45.88	1,098.3
Reasin, 1844	39	21	36.80	1,134.9
	75	54	46 15	1,104.9
Hall, 1844	39	22	09.57	295.1
	75	53	52.00	1,244.8
Hurtz, 1844	39	21	35.30	1,088.6
	75	53	52.82	1,264.6
Maldenburg, 1844	39	21	25.92	799.3
	75	53	13.61	325.8
Ford, 1844	39	22	07.92	244.2
	75	53	01.33	31.8
Eldridge, 1844	39	22	07.39	227.9
	75	52	22.66	542.4
Gregg, 1844	39	21	47.27	1,457.8
	75	52	02.68	64.2
Briscoe, 1844	39	21	54.21	1,671.8
	75	51	01.54	36.9

Station	Latitude and longitude			Seconds in meters
	°	′	″	
BUSH RIVER				
Elliot, 1844	39	22	37.46	1,155.2
	76	15	03.13	74.9
Wilson, 1844	39	22	38.59	1,190.1
	76	16	19.98	478.2
Dorney, 1844	39	23	35.07	1,081.5
	76	15	57.62	1,378.8
Fair Point, 1844	39	24	41.17	1,269.6
	76	15	21.27	508.8
Chelsea, 1844	39	24	46.55	1,435.6
	76	14	11.60	277.5
Kennard, 1844	39	26	07.22	222.7
	76	15	06.56	156.9
Chilby Point, 1844	39	26	19.42	598.9
	76	14	19.63	469.4
Hollis, 1844	39	27	16.61	512.2
	76	14	50.31	1,202.8
Abingdon Cupola, 1844	39	27	41.44	1,278.0
	76	16	42.18	1,008.4
GUNPOWDER RIVER				
Carrolls Lower Island, 1844.	39	17	55.11	1,699.5
	76	20	47.96	1,149.2
Ricketts Point, 1844	39	18	14.87	458.6
	76	17	45.16	1,082.1
Carroll Island, 1844	39	18	47.35	1,460.2
	76	19	15.01	359.6
Graces Quarter, 1844	39	20	49.28	1,519.7
	76	20	17.95	429.8
Maxwells Point, 1844	39	21	23.94	738.3
	76	18	50.25	1,203.1
Harewood, 1844	39	22	21.09	650.4
	76	20	20.38	487.8
Piney Point, 1844	39	23	19.45	599.8
	76	20	00.93	22.3
Taylors Mountain, 1844	39	23	42.09	1,298.0
	76	22	26.70	638.9
Birch Head, 1844	39	25	13.87	427.7
	76	18	18.99	454.3
Prospect Hill, 1844	39	26	12.04	371.3
	76	20	55.77	1,333.7
CHESAPEAKE BAY—POOLE ISLAND TO KENT ISLAND				
Pooles Island signal, 1840	39	16	27.06	834.5
	76	16	20.42	489.4
Sprys Island, 1840	39	17	42.88	1,322.4
	76	19	35.85	859.1
Black Marsh, 1842	39	12	28.53	879.8
	76	25	25.45	610.6
Ridgely's steeple house, 1840.	39	12	30.61	943.9
	76	25	41.28	990.4
Gibsons Island, 1840	39	04	39.72	1,224.8
	76	25	28.14	676.4
Gibsons Island 2, 1866	39	04	39.87	1,229.5
	76	25	28.25	679.1
Sandy Point, 1840	39	01	10.86	334.9
	76	23	47.27	1,137.2
CHESAPEAKE BAY—POOLE ISLAND TO KENT ISLAND—continued				
Sandy Point Light, 1866	39	01	10.89	335.8
	76	23	47.66	1,146.5
Mezick, 1840	39	01	04.18	128.9
	76	23	43.24	1,040.3
Kent Island 1, 1840	39	01	52.74	1,626.3
	76	19	05.64	135.7
Kent 2, 1840	38	58	24.88	767.2
	76	20	40.79	981.9
Kent 3, 1840	38	57	05.42	167.1
	76	21	27.73	667.7
Prices Point, 1844	38	54	32.33	997.0
	76	21	58.26	1,403.7
Thomas Point, 1846	38	54	28.52	879.4
	76	27	10.89	262.4
Thomas Point Light, 1840	38	54	28.71	885.3
	76	27	12.31	296.6
Bloody Point, 1845	38	50	55.91	1,724.0
	76	22	48.57	1,171.2
Greenwood	39	06	07.4	228.2
	76	25	47.0	1,129.3
Gibsons Heights	39	04	39.8	1,227.2
	76	25	28.3	680.3
Graces Quarters, east chimney (Carroll Island Club House), 1896.	39	19	03.50	107.9
	76	20	18.36	439.9
Handy Point, 1896	39	17	26.71	823.7
	76	11	02.09	50.1
Pooles Island flagstaff, 1896	39	17	14.96	461.4
	76	15	53.47	1,281.4
Swan Point hydrographic, 1896.	39	10	22.73	700.9
	76	16	19.02	456.6
Swan Point 2, 1866	39	08	32.21	993.3
	76	16	48.28	1,159.4
MIDDLE RIVER				
Millers Island, 1844	39	15	45.02	1,388.3
	76	21	11.53	276.4
Holly Point South, 1844	39	16	36.46	1,124.4
	76	22	59.84	1,434.3
Holly Point North, 1844	39	17	11.47	353.7
	76	23	02.83	67.8
Thick Neck Point, 1844	39	17	52.00	1,603.6
	76	23	03.47	83.1
Piney Point, 1844	39	18	37.80	1,165.7
	76	25	10.53	252.3
BACK RIVER				
Harts Island, 1844	39	14	41.81	1,289.3
	76	22	53.08	1,272.9
Rocky Point, 1844	39	14	56.33	1,737.1
	76	24	03.76	90.2
Townsend, 1844	39	13	55.91	1,724.2
	76	24	54.09	1,311.7
Provin, 1844	39	14	51.13	1,576.7
	76	24	57.48	1,378.4

Station	Latitude and longitude			Seconds in meters
BACK RIVER—continued	°	′	″	
Lynch, 1844	39	15	09.27	285.9
	76	26	52.36	1,255.5
Porter, 1844	39	15	19.23	593.0
	76	26	10.07	241.4
Stansburys Point, 1844	39	16	17.19	530.1
	76	27	01.94	40.5
Johnson, 1844	39	16	30.30	934.4
	76	26	19.16	459.3
Woodyard, 1844	39	17	31.71	977.9
	76	27	57.84	1,386.1
CHESTER RIVER				
Wilson, 1845	39	05	38.45	1,185.7
	76	14	08.08	194.2
Carville, 1845	38	59	47.49	1,464.4
	76	17	16.41	394.9
Wickes, 1845	39	01	50.89	1,569.3
	76	14	36.30	873.1
Cedar Point, 1845	39	00	49.84	1,536.9
	76	13	01.78	42.8
Wrights Mill, 1845	38	58	12.63	389.5
	76	14	37.18	895.1
Hall Point, 1845	39	00	47.33	1,459.5
	76	11	55.27	1,329.7
Lords Gift, 1845	38	59	41.90	1,292.1
	76	10	22.46	540.5
Piney Point, 1845	39	02	45.30	1,396.9
	76	11	05.46	131.3
Eastern Neck Inlet, 1845	39	03	28.32	873.3
	76	12	33.24	799.2
Harris, 1845	39	05	41.60	1,282.9
	76	11	14.42	346.5
Lower Spainards Point, 1845	39	05	33.80	1,044.2
	76	08	44.67	1,071.1
Nichols, 1845	39	06	20.15	621.4
	76	09	48.56	1,166.8
Upper Spaniards Point, 1845	39	05	52.68	1,624.5
	76	08	17.20	413.3
Emory, 1845	39	06	16.44	507.0
	76	06	48.45	1,164.2
Deep Point, 1845	39	06	31.80	980.6
	76	07	08.83	212.2
Commegys, 1845	39	07	01.88	58.0
	76	06	36.99	888.6
Mummey, 1845	39	06	51.08	1,575.2
	76	06	18.08	434.4
Smith, 1845	39	07	25.22	777.7
	76	05	36.05	866.0
Shell Point, 1845	39	08	04.67	144.0
	76	05	12.58	302.1
Hollidays, 1845	39	07	43.72	1,348.2
	76	04	45.95	1,103.7
Gauld, 1845	39	08	40.86	1,260.0
	76	03	50.18	1,205.0
Vickers, 1845	39	09	20.19	622.6
	76	04	33.56	805.8
CHESTER RIVER—contd.	°	′	″	
S. Merritt, 1845	39	09	47.98	1,479.6
	76	03	23.72	569.5
Wilmer, 1845	39	09	26.87	828.6
	76	02	55.05	1,321.8
Harrison, 1845	39	10	12.08	372.5
	76	02	54.92	1,318.4
Clement, 1845	39	10	58.38	1,800.3
	76	02	19.41	465.9
J. W. Merritt, 1845	39	10	45.91	1,415.8
	76	03	44.25	1,062.1
Clarke, 1845	39	11	22.89	705.9
	76	04	21.44	514.5
Primrose 1, 1845	39	11	39.22	1,209.5
	76	03	53.18	1,276.2
Chestertown 1, 1845	39	12	10.10	311.5
	76	04	02.30	55.2
Chestertown 2, 1845	39	12	43.41	1,338.7
	76	03	30.09	721.9
Wileys Point, 1845	39	12	50.12	1,545.6
	76	02	44.16	1,059.4
Hopewell, 1845	39	13	18.76	578.5
	76	02	29.32	703.3
Primrose 2, 1845	39	13	28.56	880.7
	76	01	34.35	824.0
Wallis, 1845	39	14	06.95	214.3
	76	01	10.67	255.9
Opossum Point, 1845	39	14	12.76	393.5
	76	00	28.86	692.1
Longford, 1845	39	14	38.01	1,172.2
	75	59	57.88	1,388.0
Double Creek Point, 1845	39	14	13.83	426.5
	75	59	28.18	675.8
Double Creek Marsh, 1845	39	14	34.60	1,067.0
	75	58	53.06	1,272.4
Walker, 1845	39	14	50.13	1,545.9
	75	59	01.60	38.4
Muddy Marsh, 1845	39	14	53.58	1,652.3
	75	58	11.40	273.4
Beckingtons Marsh, 1845	39	14	35.85	1,105.5
	75	58	08.59	206.0
Thomsons Marsh, 1845	39	14	23.99	739.8
	75	57	19.89	477.0
Sprigg, 1845	39	14	36.53	1,126.5
	75	56	51.06	1,224.5
Sutton, 1845	39	14	15.23	469.7
	75	56	13.91	333.6
Brewers Point, 1845	39	14	31.57	973.6
	75	56	00.53	12.7
Slaughter, 1845	39	14	44.92	1,385.2
	75	55	10.98	263.3
Owen, 1845	39	14	38.15	1,176.5
	75	54	36.79	882.2
Kirby, 1845	39	14	50.49	1,557.0
	75	53	30.93	741.7

Station	Latitude and longitude			Seconds in meters
WEST RIVER	°	′	″	
Horseshoe Point, 1845	38	50	24.14	744.4
	76	29	13.03	314.3
Gowan, 1846	38	52	59.32	1,829.2
	76	29	29.24	704.8
Cutts Point, 1846	38	51	15.46	476.7
	76	29	51.94	1,252.4
Dutchmans Point, 1846	38	52	10.38	320.1
	76	30	34.23	825.2
Cedar Point, 1846	38	51	04.59	141.5
	76	31	26.40	636.6
Maxcy, 1846	38	51	10.73	330.9
	76	32	12.74	307.2
Rhode River, 1846	38	52	12.68	391.0
	76	31	10.71	258.2
Merrit windmill	38	52	28.06	865.3
	76	30	36.67	884.0
SOUTH RIVER				
Sanders Point, 1846	38	53	11.05	340.7
	76	29	20.15	485.7
Fishing Creek, 1846	38	54	42.89	1,322.6
	76	28	10.30	248.2
Turkey Point, 1846	38	54	31.80	980.6
	76	29	40.73	981.3
Tucks Hill, 1844	38	54	38.33	1,182.0
	76	31	25.38	611.5
Hills Point, 1846	38	55	24.76	763.5
	76	30	03.10	74.7
Deep Point or Mayos Point, 1846.	38	55	12.67	390.7
	76	30	32.82	790.7
Switchers Point, 1846	38	55	54.80	1,689.9
	76	30	57.82	1,392.7
Brewers Point, 1846	38	55	56.88	1,754.0
	76	31	40.56	976.9
Smith, 1844	38	56	17.79	548.6
	76	32	25.35	610.5
Windmill Hill, 1844	38	55	06.01	185.3
	76	34	28.85	695.0
Ferry, 1846	38	56	44.39	1,368.9
	76	31	56.32	1,356.3
Gingawill Creek, 1846	38	57	03.12	90.2
	76	32	47.55	1,145.0
Lee, 1846	38	56	48.52	1,496.2
	76	33	14.89	358.6
Tuckers Point, 1846	38	57	20.78	640.8
	76	33	34.72	836.0
Hollands Point, 1846	38	57	03.41	105.2
	76	33	50.65	1,219.7
Boyds Point, 1846	38	57	18.08	557.5
	76	34	05.56	133.9
Warehouse, 1846	38	57	13.05	402.4
	76	34	21.37	514.6
Foxes Den, 1846	38	57	36.96	1,139.7
	76	34	42.89	1,032.7
SOUTH RIVER—continued				
Gravelly Point, 1846	38	57	30.28	933.7
	76	34	57.79	1,391.4
Beards Point, 1846	38	57	41.30	1,273.6
	76	35	19.14	460.8
Weedon's, 1846	38	57	48.15	1,484.8
	76	35	08.17	196.7
Old Womans Point, 1846	38	57	49.15	1,515.6
	76	35	38.15	918.5
Nicholson's, 1846	38	57	46.96	1,448.1
	76	35	48.61	1,170.3
Woodlanding	38	58	19.74	608.7
	76	36	00.99	23.8
SEVERN RIVER				
Hacketts Point, 1844	38	59	06.21	191.5
	76	25	28.08	675.8
Tallis Point, 1844	38	56	24.04	741.3
	76	27	02.78	67.0
Grammars Bank, 1844	38	59	44.22	1,363.6
	76	26	07.89	180.9
Ridout, 1844	39	00	26.30	811.0
	76	26	10.92	262.7
Greenbury Point, 1844	38	58	25.18	776.5
	76	27	15.06	302.5
Chases Bank, 1844	38	57	05.94	183.2
	76	28	01.58	38.0
Beaumont, 1844	38	59	18.60	573.6
	76	28	09.41	220.5
Frog Pond Hill, 1844	38	57	03.47	107.0
	76	29	41.36	995.9
Fort Severn flagstaff, 1844	38	58	55.02	1,696.7
	76	29	02.88	69.3
Annapolis Episcopal Church, 1844.	38	58	42.34	1,305.6
	76	29	35.72	850.8
Brices Point, 1844	38	59	52.98	1,633.7
	76	29	05.70	137.2
Wells Hill, 1844	38	59	38.99	1,202.3
	76	30	34.45	829.0
Charles Stuart, 1844	39	00	18.66	575.4
	76	30	42.27	1,017.1
Watkins 2, 1844	39	00	38.46	1,186.0
	76	30	16.22	390.3
Watkins 3, 1844	39	00	53.01	1,634.7
	76	29	43.11	1,037.1
Watkins 1, 1844	39	01	09.33	287.7
	76	29	59.58	1,433.3
Gown Bank, 1844	39	01	20.17	622.0
	76	31	11.31	272.1
Brewers Hill, 1844	39	01	36.12	1,113.8
	76	32	05.04	121.2
Alsquith Hill, 1844	39	02	40.81	1,258.5
	76	31	12.74	306.4
Thompsons Hill, 1844	39	01	51.86	1,599.2
	76	33	23.61	567.9

Station	Latitude and longitude			Seconds in meters
SEVERN RIVER—continued	°	′	″	
Worthington, 1844	39	01	14.10	434.8
	76	34	51.61	1,241.6
Copper Neck, 1844	39	02	31.51	971.7
	76	32	03.39	81.5
Long Point, 1844	39	02	42.85	1,321.4
	76	33	26.05	626.4
Millers Hill, 1844	39	03	07.59	234.1
	76	32	16.90	406.4
Mount Pleasant, 1844	39	02	29.97	924.2
	76	35	20.22	486.3
Shop Hill, 1844	39	03	01.62	50.0
	76	34	42.13	1,013.1
Cookes Bank, 1844	39	03	48.60	1,498.7
	76	33	12.62	303.4
MAGOTHY RIVER				
Pettibone, 1844	39	02	28.45	877.3
	76	25	03.43	82.5
Stony Point, 1844	39	04	10.06	310.2
	76	26	04.30	103.4
Flagstaff Camp, 1844	39	02	34.26	1,056.5
	76	25	35.28	848.4
Persimmon, 1844	39	02	55.25	1,703.7
	76	26	17.75	426.8
Hickory Point, 1844	39	05	20.16	621.7
	76	27	28.60	687.3
Strawberry Plains, 1844	39	03	17.93	552.9
	76	30	01.51	36.3
Linstid, flag in tree, 1898	39	05	22.68	690.4
	76	29	07.76	186.5
PATAPSCO RIVER				
Bodkin, 1842	39	08	05.23	161.3
	76	25	28.17	676.5
Bodkin Tower, 1842	39	08	05.19	160.0
	76	25	28.46	683.6
Rock Point bank, 1842	39	08	42.43	1,308.4
	76	27	17.94	430.8
Rock Point, 1842	39	10	02.82	87.0
	76	28	37.96	911.3
Rock Point 2, 1866	39	10	02.03	62.6
	76	28	43.01	1,032.5
North Point, 1842	39	11	44.12	1,360.6
	76	26	39.64	951.3
Sparrow Point, 1842	39	12	39.01	1,203.0
	76	29	25.80	619.0
Sparrow Point 2, 1866	39	12	41.32	1,274.2
	76	29	20.26	630.0
Hawkins Point, 1842	39	12	35.40	1,091.7
	76	31	58.18	1,395.8
Hawkins Point 2, 1866	39	12	35.24	1,086.7
	76	31	58.89	1,436.9
Sollers Point, 1842	39	13	39.96	1,232.3
	76	30	49.34	1,183.5
Sollers Point 2, 1866	39	13	39.96	1,232.3
	76	30	49.19	1,179.9
Snow Hill, 1842	39	12	24.09	742.9
	76	35	27.11	650.4

Station	Latitude and longitude			Seconds in meters
PATAPSCO RIVER—contd.	°	′	″	
Fishing Point, 1866	39	13	50.75	1,565.0
	76	33	49.14	1,178.6
Lazaretto, 1842	39	15	43.82	1,351.3
	76	34	14.72	352.9
Lazaretto 2, 1876	39	15	45.93	1,416.4
	76	34	02.84	68.1
Lazaretto Iron Foundry, cupola, 1876.	39	15	42.96	1,324.8
	76	34	09.14	219.1
Lazaretto furnace, cupola, 1866.	39	15	43.58	1,343.9
	76	34	08.57	205.5
Fort McHenry, parapet, 1876.	39	15	47.38	1,461.1
	76	34	45.90	1,100.4
Fort Carroll Light, 1866	39	12	52.95	1,632.9
	76	31	09.04	216.9
Buchanan, 1866	39	15	20.86	920.8
	76	32	39.27	941.5
Alms, corner of building, 1866.	39	17	23.57	726.9
	76	33	09.26	221.9
White house, center, 1866	39	06	05.70	175.8
	76	25	50.48	1,213.0
Solitary tree, 1866	39	07	07.88	243.0
	76	25	58.87	1,414.3
Large tree, 1866	39	08	07.65	235.9
	76	26	24.30	583.6
Straight tree, 1866	39	08	31.91	984.0
	76	26	59.10	1,418.9
White house, largest chimney, 1866.	39	07	33.40	1,030.0
	76	26	03.34	80.2
House, Rock Creek, north end, 1866.	39	09	16.55	510.4
	76	29	34.82	836.1
House with window near top, southwest gab., 1866.	39	14	24.50	755.5
	76	30	46.73	1,120.7
Hancock's house, chimney, 1866.	39	09	45.70	1,409.3
	76	28	57.90	1,390.1
Two-story white house, with green blinds, chimney, 1866.	39	10	44.93	1,385.5
	76	31	49.55	1,189.1
Two-story unpainted house, north chimney, 1866.	39	11	18.72	577.3
	76	32	02.15	51.6
Bird nest, tree, 1866	39	12	50.70	1,563.5
	76	28	36.36	872.3
House on Sparrow Point, cupola, 1866.	39	13	02.27	70.0
	76	29	32.74	785.4
New shed, west end, 1866	39	15	01.65	50.9
	76	31	36.61	877.9
Blazed tree (Hawkins Point), 1866.	39	12	34.78	1,072.5
	76	31	58.66	1,407.4
Red range mark, 1866	39	12	34.55	1,065.5
	76	32	18.78	450.6
White range mark, 1866	39	12	20.81	919.3
	76	32	02.87	68.8
Robinson's house, chimney, 1866.	39	12	42.24	1,302.6
	76	33	26.41	633.6
J. L. Sutton's house with flat roof, southeast chimney, 1866.	39	15	45.38	1,399.4
	76	32	02.62	62.8

Station	Latitude and longitude			Seconds in meters
PATAPSCO RIVER—contd.	°	′	″	
J. L. Sutton's large brick house, southeast chimney, 1866.	39	15	33.97	1,047.6
	76	31	54.72	1,311.9
White barn, cupola, 1866	39	15	34.92	1,076.8
	76	31	56.39	1,351.9
Old Canton house, south chimney, 1866.	39	15	41.62	1,283.5
	76	33	10.72	257.0
Mrs. Wood's house, chimney, 1866.	39	15	42.88	1,322.3
	76	33	07.56	181.2
Bonnell's house, chimney, 1866.	39	15	40.72	1,255.7
	76	32	54.67	1,310.7
Graves' house, west chimney, 1866.	39	15	39.02	1,203.3
	76	32	31.59	757.4
Graves' barn, west gable, 1866.	39	15	36.88	1,137.3
	76	32	32.70	784.0
R. O. Crisp's 2-story white house, chimney, 1866.	39	13	38.76	1,195.3
	76	34	21.26	510.0
R. O. Crisp's barn, east gable, 1866.	39	13	38.03	1,200.5
	76	34	18.03	432.5
Red barn with door in end, south gable, 1866.	39	15	48.88	1,507.4
	76	33	53.36	1,279.2
Brown barn, south gable, 1866.	39	15	51.47	1,587.2
	76	33	49.78	1,193.4
House on Snow Hill, chimney, 1866.	39	12	23.74	732.1
	76	35	28.41	681.6
G. Crisp's large house with dormer window, west chimney, 1866.	39	14	13.97	430.8
	76	34	44.92	1,077.4
Walker's unpainted house northwest chimney, 1866.	39	13	05.91	182.2
	76	34	22.72	545.1
Marine hospital, flagstaff, 1866.	39	14	40.48	1,248.3
	76	34	48.58	1,164.9
Fort Avenue, 1876	39	16	20.35	627.5
	76	36	28.18	675.5
Woodall, 1876	39	16	15.22	469.4
	76	35	53.25	1,276.5
Clifton, 1863	39	19	15.01	462.9
	76	35	15.09	361.5
Pious Hill, 1863	39	20	15.02	463.2
	76	33	40.71	975.0
Gable, 1863	39	22	39.17	1,207.9
	76	17	28.90	691.8
Abbot's rolling mill, 1876	39	16	54.79	1,689.6
	76	34	52.92	1,268.3
Federal Hill Observatory 1876.	39	16	48.60	1,498.7
	76	36	33.66	806.8
Baltimore & Ohio Central Station, 1876.	39	16	58.20	1,794.8
	76	36	20.96	502.3
Pole of shears (Ches. Marine Railway Wharf), 1876.	39	16	44.59	1,375.1
	76	35	59.21	1,419.1
House of Refuge, 1863	39	15	51.12	1,576.5
	76	43	25.70	616.0

Station	Latitude and longitude			Seconds in meters
PATAPSCO RIVER—contd.	°	′	″	
Mount Alto, 1863	39	19	06.20	191.2
	76	40	33.61	805.2
McDonald's house, cupola, 1863.	39	20	19.09	588.7
	76	36	47.34	1,133.7
Woodlawn house, apex of roof, 1863.	39	19	38.43	1,185.2
	76	37	53.71	1,286.5
St. John's Church, spire, 1863.	39	19	31.52	972.1
	76	36	33.24	796.2
Green Mount Cemetery, spire, 1863.	39	18	25.93	799.7
	76	36	27.82	666.5
Baltimore Cemetery, spire, 1863.	39	18	45.23	1,394.9
	76	34	52.00	1,245.8
Hospital, Baltimore, 1863	39	17	50.35	1,552.8
	76	35	31.39	752.1
Light Street, corner, square warehouse, 1876.	39	17	12.12	373.8
	76	36	47.06	1,140.4
Stucco house, gable, 1876	39	17	06.14	189.3
	76	36	38.40	920.3
Chase's warehouse, flagstaff, 1886.	39	16	44.89	1,384.3
	76	35	47.12	1,129.4
Federal Hill, 1876	39	16	49.13	1,515.1
	76	36	31.17	747.1
Bush, 1876	39	15	14.58	449.6
	76	37	02.38	57.1
Marine, 1876	39	14	51.38	1,584.5
	76	35	01.86	44.6
Fort Marshall flagstaff, 1863	39	17	07.46	230.1
	76	34	06.02	144.3
Canton, 1876	39	16	35.55	1,096.3
	76	34	13.74	329.3
Bridge, 1876	39	14	46.26	1,426.6
	76	36	08.12	194.7
Bar, 1876	39	15	33.34	1,028.2
	76	36	44.68	1,071.2
City yard, flagstaff, 1876	39	16	27.17	837.9
	76	36	08.12	194.6
Marine Hospital flagstaff, 1876.	39	14	46.66	1,438.9
	76	34	39.32	942.9
Leading Point tree, 1897	39	13	01.33	41.0
	76	32	59.94	1,438.0
Two-story unpainted house, east chimney.	39	13	43.24	1,333.4
	76	24	05.66	135.9
Harts Island house flagstaff.	39	15	02.43	74.9
	76	22	43.34	1,039.2
Fishing Point, hickory tree, 1897.	39	13	49.16	1,516.0
	76	33	50.86	1,219.9
Rock Point 3, 1891	39	10	01.5	46.3
	76	28	42.7	1,025.0
Sparrow Point 3, 1891	39	12	38.3	1,181.1
	76	29	23.6	566.2
Cox, 1891	39	11	01.9	58.6
	76	31	39.3	943.2
Poplar, flag, 1898	39	04	03.61	111.3
	76	26	05.85	140.6

Station	Latitude and longitude			Seconds in meters
PATAPSCO RIVER—contd.	°	′	″	
Rock Point 4, 1896	39	09	59.83	1,845.0
	76	28	39.57	949.9
Sparrow Point 4 (U.S.E.), 1896.	39	12	39.87	1,229.5
	76	29	23.62	566.8
Stony Point, 1896	39	10	30.77	948.9
	76	31	07.63	183.2
Hawkins Point 4 (U. S. E.), 1896.	39	12	34.95	1,077.8
	76	31	57.99	1,391.2
Sollers Point 4, 1896	39	13	39.40	1,215.1
	76	30	46.25	1,109.4
Sollers Shore, 1886	39	13	54.22	1,672.0
	76	31	02.42	58.0
Colgate, 1886	39	15	25.23	778.0
	76	32	30.74	737.0
Garrity, 1886	39	15	01.07	33.0
	76	31	36.44	873.8
Hawkins Point 3, 1886–91	39	12	34.89	1,075.9
	76	31	57.96	1,390.6
Sollers Point 3, 1886	39	13	39.37	1,214.1
	76	30	48.26	1,167.6
Leading, 1886	39	13	00.74	22.8
	76	33	00.43	10.3
Fort Carroll Lighthouse, 1896	39	12	51.45	1,586.6
	76	31	12.37	296.8
Club, 1886	39	15	25.63	790.4
	76	36	33.84	811.4
Montgomery, 1886	39	16	48.83	1,505.8
	76	36	26.35	631.5
Consolidated wharf, 1886	39	16	34.81	1,073.5
	76	35	33.62	805.8
Tyson, high chimney, 1886	39	14	27.02	833.2
	76	34	08.32	199.5
Greenpile, 1886	39	16	45.26	1,395.7
	76	36	17.18	411.8
Fort light, 1886	39	15	56.40	1,739.2
	76	34	54.83	1,314.4
Elevator C, chimney, 1886	39	16	08.64	266.4
	76	34	58.21	1,395.4
Zell, 1886	39	16	23.93	737.9
	76	36	05.53	132.6
Sand Hill, 1886	39	14	51.36	1,583.7
	76	35	01.61	38.7
Cigar Stub, 1886	39	16	35.27	1,087.6
	76	34	10.80	258.9
Numsens Wharf, 1886	39	16	33.08	1,020.1
	76	36	12.76	305.8
Numsen, 1886	39	16	32.37	998.2
	76	36	20.34	487.5
Flack, 1886	39	16	15.32	472.4
	76	34	08.88	212.9
Blacksmith shop, cross in front of, 1886.	39	16	46.68	1,439.5
	76	34	44.06	1,056.1
Tobacco, 1886	39	17	01.65	50.9
	76	36	25.64	614.5

Station	Latitude and longitude			Seconds in meters
PATAPSCO RIVER—contd.	°	′	″	
Patterson, 1886	39	17	03.93	121.2
	76	36	34.66	830.7
Vulcan, 1886	39	16	56.65	1,747.0
	76	36	36.91	884.6
Ferry, 1886	39	15	33.04	1,018.9
	76	36	44.83	1,074.8
Lawrence, 1886	39	16	19.41	598.6
	76	36	06.71	160.8
Moale, 1886	39	15	52.96	1,633.2
	76	37	13.30	318.8
Dorsey, 1886	39	15	33.21	1,024.1
	76	36	41.32	990.6
Bulkhead corner, 1886	39	15	29.73	916.8
	76	36	41.51	995.2
Bulkhead line, 1886	39	15	40.06	1,235.4
	76	36	24.77	593.9
Shears, 1886	39	15	34.40	1,060.8
	76	36	27.24	653.1
White derrick, 1897	39	15	33.30	1,026.9
	76	36	24.25	581.3
Ariel, 1897	39	15	24.47	754.6
	76	36	35.09	841.4
Boathouse flagstaff, 1886	39	15	26.03	802.7
	76	36	33.77	809.7
Block, 1886	39	16	52.47	1,618.1
	76	36	12.57	301.3
Winans, 1886	39	15	40.45	1,247.4
	76	36	19.06	456.9
No. 1, 1886	39	14	46.75	1,441.8
	76	36	07.32	175.5
Covington, 1886	39	16	42.62	1,314.3
	76	36	26.05	624.3
Mark, 1886	39	16	50.72	1,564.1
	76	36	35.95	861.6
York, 1886	39	16	53.64	1,654.1
	76	36	46.95	1,125.3
Nail, 1886	39	17	12.29	379.0
	76	36	41.76	1,000.9
Locust, 1886	39	15	18.06	556.9
	76	36	56.72	1,360.0
Target, 1886	39	15	40.96	1,263.1
	76	34	50.58	1,212.6
Baltimore and Ohio Pier 32, 1886	39	16	12.36	381.2
	76	34	52.46	1,257.5
Oil, 1886	39	15	45.33	1,397.9
	76	35	38.38	920.2
Tyson, 1886	39	14	31.75	979.1
	76	34	01.80	43.2
Shryock's wharf, flagstaff, 1886.	39	16	42.12	1,298.9
	76	35	50.02	1,198.9
Baltimore Storage and Lighterage Co. dock building, flagstaff, 1886.	39	15	53.23	1,641.5
	76	34	18.74	449.2
Baker and Whitley's coal wharf, flagstaff, 1886	39	15	55.16	1,701.0
	76	34	18.56	444.9

Station	Latitude and longitude			Seconds in meters
PATAPSCO RIVER—contd.	°	′	″	
Fort Avenue west base, 1886.	39	16	19.53	602.3
	76	36	11.32	271.4
Fort Avenue east base, 1886	39	15	56.52	1,742.9
	76	35	05.60	134.3
E. B., 1886	39	15	43.62	1,345.1
	76	36	45.72	1,096.0
Randalls Wharf, 1886	39	16	16.41	506.1
	76	37	16.85	403.9
Bank, 1886	39	16	26.43	815.0
	76	37	18.01	431.7
Sharp, 1886	39	15	51.04	1,574.0
	76	37	11.85	284.1
W. B., 1886	39	15	50.42	1,554.7
	76	37	14.74	353.3
Willow, 1886	39	15	21.07	649.7
	76	37	00.35	8.4
Cherry, 1886	39	15	21.50	663.0
	76	37	03.19	76.5
Glass, 1886	39	15	54.69	1,686.5
	76	37	42.14	1,010.2
Ravine, 1886	39	15	17.25	532.0
	76	37	28.91	693.2
Rocks, 1886	39	15	24.67	760.8
	76	37	41.58	996.9
Bight, 1886	39	15	26.82	827.1
	76	37	52.87	1,267.6
Creek, 1886	39	15	27.55	849.6
	76	37	58.52	1,403.0
Jephson, 1886	39	15	40.35	1,420.3
	76	37	05.64	135.2
Bowley, 1886	39	17	08.26	254.7
	76	36	41.44	993.2
Small white spire	39	16	18.14	559.4
	76	39	27.86	667.5
POPLAR ISLAND—HERRING BAY				
Franklin Point, 1845	38	49	06.08	187.5
	76	29	49.70	1,199.0
Franklins windmill, 1845	38	48	01.37	42.2
	76	30	46.64	1,125.5
Poplar Island 2, 1845	38	46	26.72	823.9
	76	23	15.88	383.3
Pacas Island, 1845	38	46	34.40	1,060.8
	76	32	09.78	236.1
Weems windmill, 1845	38	46	13.92	429.2
	76	34	18.89	456.0
Fairhaven, 1845	38	45	16.13	497.4
	76	33	54.18	1,308.2
Owens windmill, 1845	38	43	03.05	94.0
	76	33	07.93	191.6
Hollands Point, north, 1845.	38	43	46.04	1,419.7
	76	31	31.16	752.7
Hollands Point, 1846	38	42	56.92	1,755.2
	76	31	31.06	750.4
Windmill below Holland, 1845.	38	39	33.80	1,042.2
	76	32	17.63	426.3

Station	Latitude and longitude			Seconds in meters
CHESAPEAKE BAY	°	′	″	
Chew, 1845	38	40	23.79	733.6
	76	31	51.04	1,233.8
Plum Point, 1845	38	37	32.62	1,005.8
	76	30	59.58	1,441.2
Sharps Island Light, (old, destroyed) 1845.	38	37	47.28	1,457.9
	76	22	14.12	341.5
Sharps Island 2, 1845	38	36	42.71	1,317.0
	76	22	26.70	646.0
S. Y. Dorsey, Parran, 1845	38	32	53.86	1,660.8
	76	31	02.20	53.3
James Island, 1845	38	31	58.29	1,797.4
	76	21	05.60	135.6
Doctor Dorsey, 1845	38	30	10.02	309.0
	76	30	20.33	492.6
Bond, 1845	38	29	06.25	192.7
	76	30	34.92	846.3
Plum 2, 1898	38	37	22.41	690.9
	76	30	53.26	1,288.5
Wilson 2 (Johnstone's), 1845.	38	26	34.93	1,077.0
	76	27	09.86	239.1
Taylors Island, 1845	38	28	10.14	312.7
	76	19	59.80	1,449.7
Cove Point, 1845	38	23	10.86	334.9
	76	22	54.98	1,334.4
Barren Island, 1846	38	19	40.88	1,260.5
	76	16	04.48	108.8
Ponds, 1847	38	18	22.57	695.9
	76	13	28.78	699.3
Abell, 1847	38	16	56.51	1,742.4
	76	23	27.94	679.1
Tarleton, 1847	38	14	11.13	343.2
	76	23	30.75	747.8
Pea Hill, 1848	38	07	43.38	1,337.5
	76	21	43.87	1,068.5
Price's Mill, 1848	38	07	10.23	315.4
	76	20	14.54	354.2
Point Lookin, 1848	38	05	56.11	1,730.0
	76	19	49.50	1,206.1
Taylor, 1848	38	03	28.75	886.4
	76	19	24.15	588.8
EASTERN BAY				
Poplar Island 3, 1840	38	46	53.69	1,055.6
	76	22	23.62	570.1
Lowes Point, 1846	38	46	39.47	1,217.1
	76	20	04.69	113.2
Wades Point, 1846	38	49	41.22	1,271.1
	76	18	01.93	46.6
Long Point, Kent Island, 1846.	38	51	17.02	524.8
	76	20	15.49	373.5
Turkey Point, 1846	38	54	08.21	253.1
	76	17	33.72	812.5
Bodkin Island, 1846	38	53	42.34	1,305.6
	76	16	49.11	1,183.5
Tilghmans Point, 1846	38	51	55.14	1,700.3
	76	15	09.70	233.9

Station	Latitude and longitude			Seconds in meters
EASTERN BAY—contd.	°	′	″	
Parsons Island, 1846	38	54	05.31	163.8
	76	15	13.86	334.0
Parsons Point, 1846	38	55	22.78	702.5
	76	15	27.27	656.9
Bryan, 1846	38	55	56.93	1,755.6
	76	12	49.38	1,189.4
WYE RIVER				
Mouth of Wye River, 1846	38	50	41.13	1,268.3
	76	11	53.97	1,301.5
Bonnetts Point, 1846	38	51	51.27	1,581.0
	76	12	06.85	165.2
E. Lloyd, 1846	38	51	27.33	842.7
	76	10	02.42	58.4
M. Lloyd, 1846	38	52	43.05	1,327.5
	76	09	34.09	821.7
White house 1, 1846	38	52	16.57	511.0
	76	08	19.37	467.0
White house 2, 1846	38	52	46.27	1,426.8
	76	08	42.14	1,015.7
White house 3, 1846	38	52	30.99	955.6
	76	07	52.90	1,275.2
Paca, 1846	38	53	02.56	79.0
	76	07	06.34	152.8
Daniel Lloyd 1, 1846	38	52	29.38	906.0
	76	07	03.01	72.6
Daniel Lloyd 2, 1846	38	52	41.04	1,265.5
	76	06	43.78	1,055.4
Daniel Lloyd 3, 1846	38	52	42.76	1,318.5
	76	06	18.36	442.6
Wye Landing, 1846	38	53	11.53	355.5
	76	06	00.38	9.2
MILES RIVER				
Herring Island, 1846	38	50	06.13	189.0
	76	12	59.58	1,437.0
Deep Water Point, 1846	38	48	25.11	774.3
	76	12	48.40	1,167.8
Fairview, 1846	38	48	11.58	357.1
	76	12	02.51	60.6
Little Neck Point, 1846	38	40	34.08	1,050.9
	76	11	55.72	1,345.0
Long Point 2, 1846	38	46	12.09	372.8
	76	10	24.04	580.3
Lockerman, 1846	38	45	26.98	832.0
	76	10	01.54	37.2
Perry Hall, 1846	38	46	17.57	541.8
	76	09	17.58	424.4
Sandy Point, 1846	38	46	46.05	1,420.0
	76	09	04.58	110.5
Bartlett, 1846	38	47	02.85	87.9
	76	08	25.18	607.8
Lowndes, 1846	38	47	33.50	1,034.9
	76	08	22.39	540.4
Goldsborough, 1846	38	47	47.39	1,461.3
	76	07	09.72	234.6

Station	Latitude and longitude			Seconds in meters
THIRDHAVEN CREEK	°	′	″	
Oxford, 1846	38	41	25.57	788.4
	76	10	31.95	772.2
Battee, 1846	38	41	39.84	1,228.5
	76	11	07.43	179.6
Tilghman, 1846	38	41	56.27	1,735.1
	76	09	40.18	970.9
Morling, 1846	38	42	21.16	652.5
	76	09	43.48	1,050.6
Eagle Point, 1846	38	42	30.56	942.3
	76	08	07.20	174.0
Mares Neck, 1846	38	42	39.27	1,210.9
	76	09	03.83	92.5
Hambleton, 1846	38	43	09.45	291.4
	76	08	27.16	656.1
Diamond Hall, 1846	38	43	36.47	1,124.6
	76	08	44.74	1,080.7
Long Point, 1846	38	44	07.43	229.1
	76	08	13.20	318.8
Doctor Clough, 1846	38	43	49.31	1,520.5
	76	08	15.10	364.7
Haywood, 1846	38	44	03.29	101.4
	76	07	22.46	542.5
Cedar Point, 1846	38	44	37.55	1,157.9
	76	07	01.22	29.5
Neck Point, 1846	38	44	39.27	1,210.9
	76	07	24.76	598.0
Bartlett, 1846	38	45	20.38	628.4
	76	07	08.37	202.1
Watermelon Point, 1846	38	45	05.28	162.8
	76	07	02.23	53.9
Holliday, 1846	38	45	46.67	1,439.1
	76	06	26.88	649.0
Craney, 1898	38	56	08.34	257.3
	76	21	49.48	1,191.6
Skip, 1898	38	59	15.22	469.3
	76	20	02.30	55.4
Horn 3, 1903	38	58	19.99	616.3
	76	28	26.39	635.4
Edgewater smithy, southeast gable, 1899.	38	57	11.05	340.7
	76	33	08.94	215.2
Taylor, 1899	38	57	15.74	485.3
	76	34	03.39	81.6
Tilghman Island 2, 1898	38	40	06.00	184.4
	76	20	31.25	755.4
Dare, 1898	38	33	47.30	1,458.4
	76	30	57.07	1,381.8
Ragged Point 2, 1898	38	31	50.67	1,562.3
	76	16	59.28	1,435.9
Nelson 2, 1898	38	42	02.50	77.2
	76	16	05.93	143.2
Saint, 1898	38	28	34.51	1,064.1
	76	29	12.24	296.7
Sub north, 1900	38	20	31.20	1,017.7
	76	15	58.31	1,416.0

Station	Latitude and longitude			Seconds in meters
THIRDHAVEN CREEK—con.	°	′	″	
Hosier Memorial Church, spire, 1898.	38	19	56.07	1,728.8
	76	13	49.84	1,210.6
Crab 2, 1898	38	15	14.31	441.2
	76	06	06.00	146.0
Adam, 1898	38	09	08.09	249.4
	76	05	34.59	842.2
Inigoes, 1898	38	10	35.72	1,101.4
	76	21	04.78	116.3
CHOPTANK RIVER				
Tilghman Island, dead tree, 1846.	38	40	02.96	91.3
	76	20	42.46	1,026.5
Cooks Point, 1846	38	38	03.06	94.4
	76	17	39.91	965.3
Nelsons Point, 1846	38	41	55.09	1,698.7
	76	16	00.41	9.9
Harris Creek, 1846	38	43	03.89	120.0
	76	19	31.67	765.1
Roystones Point, 1846	38	41	34.58	1,066.3
	76	13	58.04	1,402.8
Skinner, 1846	38	43	59.15	1,823.9
	76	15	32.30	780.2
Hambletons Island, 1846	38	44	56.27	1,735.1
	76	13	52.82	1,275.5
Todds Point, 1846	38	37	56.87	1,753.6
	76	14	12.74	308.1
Benonis Point, 1846	38	40	13.86	427.4
	76	12	03.23	78.1
Castlehaven, 1846	38	37	46.97	1,448.3
	76	10	16.26	393.3
Bachelors Point, 1846	38	40	16.73	515.9
	76	10	27.12	655.6
Glory Point, 1846	38	38	14.56	449.0
	76	08	55.37	1,339.2
Howells Point, 1846	38	36	46.61	1,437.2
	76	06	46.12	1,115.8
Horn Point, 1846	38	36	22.05	679.9
	76	08	26.70	646.0
Sandhill, 1846	38	35	09.83	303.1
	76	06	17.54	424.5
Hambrooks Point, 1846	38	35	34.85	1,074.6
	76	05	19.33	467.8
Reid, 1846	38	36	53.09	1,637.0
	76	04	56.85	1,375.4
Porpoise Creek, 1846	38	36	19.11	589.3
	76	03	23.19	561.1
Tates Bank, 1846	38	33	43.08	1,328.4
	76	02	43.77	1,059.7
Chancellors Point, 1846	38	34	45.03	1,388.5
	76	01	39.44	954.7
Waggaman, 1846	38	34	17.51	539.9
	76	00	28.56	691.4
Oystershell Point, 1846	38	34	49.08	1,513.4
	75	59	45.56	1,102.8
Goose Point, 1846	38	35	43.73	1,348.4
	76	00	03.13	75.7

Station	Latitude and longitude			Seconds in meters
CHOPTANK RIVER—contd.	°	′	″	
Stewart, 1846	38	35	45.46	1,401.8
	75	58	40.52	980.5
Warwick, 1846	38	36	57.29	1,766.5
	75	58	28.58	691.4
Jamaica Point, 1846	38	36	39.81	1,227.5
	75	59	12.49	302.2
Case, 1846	38	37	38.60	1,190.2
	75	59	35.35	855.1
Small, 1846	38	38	23.84	735.1
	75	58	38.87	940.1
Cabin Creek, 1846	38	37	52.47	1,617.9
	75	57	58.05	1,404.1
Jacob, 1846	38	38	58.86	1,814.9
	75	57	03.65	88.3
Hunting Creek, 1846	38	40	14.81	456.7
	75	56	45.65	1,103.6
Barnes, 1846	38	40	03.45	106.4
	75	57	30.05	726.5
Goldsborough, 1846	38	41	06.10	188.1
	75	57	24.32	587.8
Ross, 1846	38	41	08.53	263.0
	75	58	35.22	851.3
Frazer, 1846	38	42	16.72	515.6
	75	59	17.19	415.4
Lloyd, 1846	38	42	06.12	188.7
	75	59	57.17	1,381.5
Malone, 1846	38	43	08.02	247.3
	76	00	47.76	1,153.8
Hog Island, 1846	38	43	57.03	1,758.6
	76	00	06.96	168.1
Stevens, 1846	38	44	30.17	930.3
	76	00	32.21	777.9
Cook, 1846	38	44	54.44	1,678.7
	75	59	32.20	779.8
Dover, 1846	38	45	33.82	1,042.9
	75	59	47.13	1,138.0
Willis, 1846	38	45	32.23	993.8
	75	59	05.65	136.4
Kingstown, 1846	38	46	48.48	1,494.9
	75	58	15.24	307.9
Providence, 1846	38	46	16.44	506.9
	75	58	05.78	139.5
Sullivan, 1846	38	46	55.14	1,700.3
	75	56	34.11	823.3
Clark, 1846	38	47	01.18	36.4
	75	57	28.37	684.8
Wings Landing, 1846	38	47	17.86	550.7
	75	55	59.43	1,434.3
High Bank, 1846	38	47	32.94	1,015.7
	75	56	12.23	295.2
LITTLE CHOPTANK RIVER				
Sharps Island 1, 1846	38	37	30.53	941.4
	76	21	44.01	1,079.1
James Point, 1846	38	31	57.91	1,785.7
	76	20	08.53	206.6

Station	Latitude and longitude			Seconds in meters
LITTLE CHOPTANK RIVER—continued				
	°	′	″	
Hoopers Point, 1846	38	30	23.09	712.0
	76	17	10.45	253.2
Ragged Point, 1846	38	31	47.60	1,467.7
	76	16	31.13	754.0
Susquehanna Point, 1846	38	31	22.92	706.7
	76	14	55.85	1,352.9
McKeels Point, 1846	38	32	20.45	630.6
	76	13	27.37	662.9
Hudsons Creek, 1846	38	32	41.29	1,273.2
	76	14	29.63	717.5
Cedar Point, 1846	38	33	04.42	136.3
	76	13	18.75	454.0
Skinner, 1846	38	33	11.89	366.6
	76	12	19.22	465.4
Solomons Cove, 1846	38	33	39.91	1,230.6
	76	11	46.87	1,134.8
Patterson, 1846	38	33	37.52	1,156.9
	76	10	30.11	729.0
HONGA RIVER				
Long Ridge, 1847	38	13	56.25	1,734.4
	76	08	34.96	850.3
Crabb Point, 1847	38	15	17.35	535.0
	76	06	09.94	241.7
Hickory Point, 1847	38	16	09.21	284.0
	76	10	29.23	710.6
Hickory Cove, 1847	38	15	26.52	817.7
	76	10	13.31	323.6
Windmill, 1847	38	16	32.28	995.3
	76	08	57.29	1,392.6
Johnson, 1847	38	18	40.65	1,253.4
	76	08	17.31	420.5
Smoke Point, 1847	38	17	40.66	1,253.7
	76	11	35.46	861.7
Old Town Point, 1847	38	19	00.23	7.1
	76	10	05.28	128.3
Bens Point, 1847	38	18	50.05	1,543.2
	76	13	22.41	544.4
Wheatley, 1847	38	19	57.48	1,772.3
	76	11	25.01	607.4
Fishing Creek, 1847	38	20	50.87	1,568.5
	76	13	30.89	760.1
Bar Neck, 1847	38	21	43.03	1,320.8
	76	11	41.49	1,007.3
HOOPERS STRAITS—FISHING BAY				
Hilly Hummock, 1848	38	10	13.11	404.2
	76	05	19.81	482.2
Bloodsworth, 1848	38	10	36.54	1,126.6
	76	05	37.33	908.6
Bishops Head, 1848	38	13	26.44	815.2
	76	02	59.75	1,453.4
Piney Hummock, 1848	38	11	45.97	1,417.4
	76	02	22.06	536.8
Clay Island Light, 1848	38	13	56.76	1,750.1
	75	58	27.43	667.1
HOOPERS STRAITS—FISHING BAY—continued				
	°	′	″	
Rosencer, 1848	38	17	05.00	154.2
	76	01	56.69	1,377.8
Fishing Point, 1848	38	18	24.40	752.3
	76	00	58.52	1,421.9
Jones Island, 1848	38	18	15.93	491.2
	76	03	05.64	137.0
Insley's mill, 1848	38	18	59.70	1,840.7
	76	03	09.63	233.9
Wilsons Island, 1848	38	18	51.99	1,603.0
	75	59	21.19	514.8
Grays Island, 1848	38	20	30.36	936.1
	75	57	45.38	1,102.1
Snake Island, 1848	38	21	15.54	479.2
	76	00	37.56	912.0
TANGIER SOUND				
Ballard, 1848	38	14	23.94	738.1
	75	50	59.75	1,453.1
Stump Point, 1848	38	13	42.58	1,312.9
	75	53	51.26	1,246.8
Long Point, 1848	38	12	13.76	424.3
	75	53	21.95	534.1
Franks Island, 1848	38	11	30.69	946.3
	75	55	18.59	452.4
Turkey Point, 1848	38	09	57.76	1,780.9
	75	57	00.49	11.9
Cold Quarter, 1848	38	09	11.11	342.5
	76	01	43.68	1,063.5
Spring Island, 1848	38	07	57.87	1,784.2
	76	03	55.73	1,357.2
Long Island, 1848	38	08	14.10	434.7
	76	06	06.18	150.5
Cedar Hummock Point, 1848.	38	06	32.01	986.9
	76	03	02.99	72.8
South Marshes, 1848	38	05	08.27	255.0
	76	03	26.69	650.4
Bluff (tree), 1848	38	05	24.14	744.3
	76	01	09.32	227.1
Deils Island, 1848	38	07	46.65	1,438.3
	75	57	21.75	529.7
Thomas, 1848	38	06	51.92	1,600.8
	75	56	52.54	1,279.9
Piney Island, 1848	38	06	31.86	982.3
	76	55	17.08	416.1
St. Pierre, 1848	38	07	22.29	687.2
	75	50	19.02	463.3
Prickley Point, 1848	38	05	16.87	520.1
	75	52	26.76	652.1
Crane Point, 1848	38	03	37.23	1,147.9
	75	48	53.23	1,297.6
Little Bolton, 1848	38	01	51.06	1,574.3
	75	49	58.77	1,433.3
Solomon Evans, 1848	38	02	30.99	955.5
	76	01	01.53	37.3

Station	Latitude and longitude			Seconds in meters
TANGIER SOUND—contd.	°	′	″	
Fog Point Light, 1848	38	02	07.44	229.4
	76	02	33.74	822.8
Jones, 1848	38	01	24.97	769.9
	76	03	01.47	35.9
Barn Point, 1848	37	59	54.08	1,667.4
	75	59	06.56	160.1
Hog Neck, 1848	37	58	22.40	690.6
	76	03	00.34	8.3
Horse Hummock, 1849	37	57	12.76	393.4
	75	59	37.57	917.3
Janes Island, 1848	37	58	33.85	1,043.7
	75	53	56.33	1,374.8
Fox Island (Va.), 1849	37	53	56.56	1,743.8
	75	54	33.48	817.9
Goose Harbor (Va.), 1849	37	52	05.37	165.6
	76	00	12.11	296.0
Neck, 1898	37	59	10.49	323.3
	76	03	05.42	132.3
Far, 1898	37	57	03.00	92.6
	76	03	04.03	98.3
Evans, 1898	38	02	26.04	802.9
	76	00	45.04	1,098.3
Apes, 1898	37	57	00.05	1.7
	75	48	18.54	452.6
Messongo (Va.), 1898	37	53	52.90	1,630.9
	75	45	30.37	742.0
Tunnel Island (Va.), 1849	37	53	57.78	1,781.3
	75	45	40.88	998.7
Guilford Island (Va.), 1849	37	50	40.09	1,236.0
	75	42	34.02	831.8
Sykes Island (Va.), 1849	37	55	13.33	411.0
	75	43	49.37	1,205.7
Maremscot, 1849	37	58	25.84	796.6
	75	42	27.08	660.9
Watkins Point, 1849	37	56	55.01	1,695.9
	75	48	21.79	532.0
Isle (Va.), 1901	37	56	32.62	1,005.9
	75	40	46.75	1,141.4
Back (Va.), 1901	37	56	31.24	963.2
	75	38	23.54	574.9
Williams, 1901	37	57	30.58	942.8
	75	39	31.30	704.1
Fox 2 (Va.), 1898	37	53	39.93	1,231.0
	75	54	23.37	571.0
Goose (Va.), 1898	37	51	49.77	1,534.4
	76	00	03.12	76.3
Butt (Va.), 1898	37	49	52.20	1,609.3
	75	58	18.77	459.0
Tangier 2 (Va.), 1898	37	48	17.75	547.2
	75	58	58.69	1,435.7
Muddy Marsh (Mud) (Va.,) 1898	37	51	37.47	1,155.2
	75	52	08.27	202.3
Sykes (Va.), 1901	37	56	12.88	397.0
	75	43	06.22	152.0

Station	Latitude and longitude			Seconds in meters
NANTICOKE RIVER	°	′	″	
Sandy Island, 1848	38	14	42.20	1,301.2
	75	56	23.70	576.3
Roaring Point, 1848	38	15	56.33	1,736.8
	75	54	58.89	1,431.7
Mulberry Island, 1848	38	16	25.41	783.5
	75	56	17.95	430.3
Ragged Point, 1848	38	17	31.02	984.2
	75	54	22.17	538.8
Cow Creek, 1848	38	18	40.37	1,244.7
	75	56	01.30	31.6
Greens Island, 1848	38	20	35.34	1,089.7
	75	54	42.31	1,027.5
Hat Crown Point, 1848	38	19	30.52	1,126.0
	75	53	04.12	100.1
Beach, 1848	38	21	05.75	177.3
	75	53	16.08	405.0
Cedar Hummock, 1848	38	20	45.21	1,394.0
	75	51	52.80	1,282.2
Roar, 1901	38	15	52.86	1,029.9
	75	55	10.74	261.1
Brick Kiln Cove, 1848	38	22	23.98	739.4
	75	52	10.11	245.4
Oak Hummock, 1848	38	21	40.12	1,237.1
	75	50	50.11	1,216.6
Donoho, 1848	38	23	23.65	729.2
	75	51	37.00	898.0
Sankeys Island, 1848	38	23	37.98	1,171.1
	75	49	52.99	1,285.9
Windmill Hill, 1848	38	24	15.17	467.8
	75	51	11.34	275.2
Red Oak Island, 1848	38	24	44.86	1,383.2
	75	49	14.67	355.9
Nanticoke Manor, 1848	38	25	39.94	1,231.5
	75	50	31.03	752.7
Den Creek, 1848	38	25	48.48	1,494.8
	75	49	03.81	92.4
Vickers, 1848	38	26	31.00	955.9
	75	50	08.57	207.8
Gum Island, 1848	38	27	12.89	397.4
	75	48	59.61	1,445.4
Point Pleasant, 1848	38	27	39.37	1,213.9
	75	49	55.08	1,335.4
Barren Creek, 1848	38	27	56.17	1,731.9
	75	48	13.50	327.3
Vienna, 1848	38	29	11.23	346.3
	75	49	15.22	368.9
PATUXENT RIVER				
Hog Island, 1846	38	18	37.22	1,147.6
	76	23	58.09	1,411.3
Slatt, 1846	38	19	45.54	1,404.1
	76	25	05.18	125.8
Jones 2, 1846	38	19	36.75	1,133.1
	76	25	33.92	823.9
Carroll, 1846	38	18	17.43	537.4
	76	25	02.42	58.8

Station	Latitude and longitude			Seconds in meters	Station	Latitude and longitude			Seconds in meters
PATUXENT RIVER—contd.	°	′	″		PATUXENT RIVER—contd.	°	′	″	
Sandy Point, 1846	38	18	56.74	1,749.5	Duke 2, 1857	38	28	19.86	612.4
	76	27	20.51	498.2		76	38	05.63	136.5
Woodyard, 1846	38	17	34.02	1,048.9	Shirley Point, 1846	38	28	04.70	144.9
	76	27	09.62	233.8		76	38	41.30	1,001.2
Thomas, 1846	38	18	29.81	919.1	Sheridans Point, 1857	38	28	04.21	129.8
	76	28	13.15	319.5		76	38	44.64	1,082.2
Town Point 2, 1846	38	19	15.76	485.9	McDaniel, 1846	38	28	11.88	366.3
	76	28	40.65	987.4		76	39	42.04	1,019.1
Somerville, 1846	38	19	53.09	1,636.9	McDaniel 2, 1857	38	28	10.91	336.4
	76	28	08.10	196.7		76	39	46.79	1,134.3
Abell, 1846	38	19	54.17	1,670.2	Holland Point, 1846	38	30	13.39	412.9
	76	29	34.22	831.2		76	39	49.29	1,194.3
Hungerford, 1846	38	21	12.59	388.2	Holland Point 2, 1857	38	30	13.27	409.2
	76	28	40.42	981.4		76	39	48.50	1,175.2
Gilliam, 1846	38	21	24.48	754.8	Town Point, 1857	38	30	52.73	1,625.9
	76	30	15.59	378.5		76	40	23.34	565.5
St. Leonards Creek, 1846	38	23	09.57	295.1	Washington, 1846	38	30	48.63	1,499.5
	76	29	55.16	1,338.7		76	41	34.76	842.2
Petersen, 1846	38	23	32.26	994.7	Washington 2, 1857	38	30	49.85	1,537.1
	76	30	24.46	593.6		76	41	33.97	823.0
Petersen 2, 1857	38	23	32.19	992.5	Estep, 1857	38	31	12.72	392.2
	76	30	24.34	590.7		76	41	34.13	826.8
Setterly Point, 1846	38	22	52.02	1,604.0	Gods Graces Point, 1857	38	32	27.84	858.4
	76	32	01.30	31.6		76	40	02.85	69.0
Setterly Point, 1857	38	22	59.19	1,825.1	Barker, 1857	38	33	30.40	937.4
	76	32	09.03	219.2		76	41	07.03	170.2
High Bank, 1846	38	23	20.19	622.5	Stanforth, 1857	38	33	49.26	1,518.9
	76	33	17.28	419.4		76	40	11.13	269.5
High Bank 2, 1857	38	23	19.80	610.5	Truemans Point, 1857	38	34	17.31	533.8
	76	33	19.50	473.2		76	41	08.95	216.7
Broughams Island, 1846	38	24	40.80	1,258.0	Blake, 1857	38	34	57.41	1,770.2
	76	32	48.10	1,167.0		76	40	22.59	546.8
Brooms Island, 1857	38	24	12.59	388.2	Somerville 2, 1857	38	35	44.30	1,366.0
	76	33	15.87	385.1		76	41	00.01	0.2
Parker, 1857	38	25	24.34	750.5	Hollands Cliffs, 1857	38	36	34.09	1,069.7
	76	34	20.50	497.3		76	40	13.13	317.7
Barnes, 1846	38	25	28.93	892.0	Bowlings Marsh, 1857	38	37	04.06	125.2
	76	34	31.28	758.8		76	40	29.18	706.0
Bond, 1857	38	25	41.34	1,274.7	Covington, 1857	38	37	07.36	226.9
	76	34	49.98	1,212.3		76	41	49.44	1,190.1
Mauds Hill, 1846	38	24	42.44	1,308.6	Sollin, 1857	38	37	54.67	1,685.7
	76	36	22.33	541.7		76	40	43.86	1,060.9
Mauds Hill, 1857	38	24	42.42	1,308.0	High Hill, 1857	38	37	55.19	1,701.8
	76	36	22.33	541.7		76	41	52.45	1,268.6
Ayres, 1846	38	20	05.38	165.9	Magruders Ferry, 1857	38	38	42.52	1,311.1
	76	35	33.32	808.1		76	41	57.25	1,384.5
Ayres 2, 1857	38	26	07.41	228.5	Lower Marlboro, 1857	38	38	53.03	1,635.2
	76	35	32.51	788.5		76	41	01.47	35.5
Reedor, 1846	38	25	57.29	1,766.5	Fowler, 1857	38	40	01.23	37.9
	76	38	04.26	103.3		76	41	09.24	223.4
Reedor 2, 1857	38	25	57.27	1,765.9	Perry, 1857	38	39	59.01	1,819.6
	76	38	05.28	128.1		76	42	14.76	356.8
Duke, 1846	38	28	19.31	595.4	Bald Eagle, 1860	38	40	57.36	1,768.7
	76	38	05.77	139.9		76	42	27.32	660.3

Station	Latitude and longitude			Seconds in meters
PATUXENT RIVER—contd.	°	′	″	
Jones 1, 1857	38	41	26.73	824.2
	76	41	36.73	887.7
Bis Jones, 1860	38	41	35.61	1,098.0
	76	41	34.74	839.6
No. 2, 1860	38	41	47.61	1,468.1
	76	42	04.39	106.1
Ravine, 1860	38	41	58.48	1,803.3
	76	41	37.19	898.7
Turton, 1860	38	42	22.67	699.1
	76	42	11.44	276.4
Wharf Marsh, 1860	38	42	29.20	903.2
	76	41	46.16	1,115.3
Reed, 1860	38	42	55.83	1,721.6
	76	42	04.65	112.3
Griffith, 1860	38	43	42.99	1,325.6
	76	41	30.37	733.6
CHINCOTEAGUE AND SINEPUXENT BAYS				
Daisy Marsh (Del.), 1847	38	29	06.30	194.2
	75	03	06.11	148.0
Rodgers (Del.), 1847	38	28	10.29	317.2
	75	04	50.95	1,235.0
Fenwick, 1847	38	26	46.01	1,418.5
	75	03	01.25	30.4
Riley, 1847	38	25	25.49	785.0
	75	06	26.45	641.4
Brig Knots, 1847	38	24	16.73	515.8
	75	03	40.68	987.0
Wight (Isle of Wight), 1847	38	23	31.13	959.1
	75	06	01.17	28.4
Beach House, 1847	38	21	02.42	74.6
	75	04	27.66	671.7
Davis, 1847	38	20	28.53	879.5
	75	06	21.63	525.3
Dromedary, 1847	38	19	02.81	86.7
	75	05	27.49	667.7
Quilling, 1847	38	18	13.85	427.0
	75	07	03.02	73.4
Swan Point, 1847	38	23	26.55	818.6
	75	03	45.17	1,095.9
Flat Mound, 1847	38	17	12.50	385.4
	75	06	25.23	613.1
Ship Yard, 1847	38	16	31.26	963.7
	75	08	12.50	303.8
Twin Hills	38	14	58.07	1,790.2
	75	07	43.07	1,047.1
Powell, 1847	38	14	25.60	789.3
	75	09	51.10	1,242.5
North Birch	38	12	20.72	638.8
	75	09	07.40	180.0
South Point Island	38	12	17.95	553.4
	75	11	39.67	765.2
South Birch	38	09	18.67	575.6
	75	10	29.90	727.9

Station	Latitude and longitude			Seconds in meters
CHINCOTEAGUE AND SINEPUXENT BAYS—continued	°	′	″	
Robins Marsh, 1848	38	09	16.29	502.2
	75	14	52.55	1,279.4
Green Run	38	04	56.69	1,747.7
	75	12	10.80	263.2
Big Bay Point, 1848	38	04	59.78	1,842.8
	75	17	17.58	428.4
Popes Island Beach (Va.)	38	01	27.53	848.7
	75	14	43.09	1,050.6
Hardys Hole Island, 1849	38	01	55.98	1,725.8
	75	19	15.87	386.9
Lonesome Hill (Va.), 1849	37	58	49.02	1,511.2
	75	17	07.47	182.3
Snead (Va.), 1849	37	58	21.38	659.1
	75	26	10.79	263.4
Mill Hill, 1848	38	08	11.85	365.3
	75	17	46.53	1,133.0
Popes Bay (Va.)	38	01	11.95	368.4
	75	14	59.87	1,460.3
Green Beach	38	04	53.34	1,644.4
	75	12	10.58	257.8
Robins Point, 1848	38	09	24.64	759.6
	75	16	09.65	234.9
Robin's cupola, 1848	38	08	58.26	1,796.0
	75	17	14.54	354.1
Hawks Nest	38	05	12.78	394.0
	75	13	02.18	53.1
POTOMAC RIVER				
Cubitts Creek (Va.), 1867	37	57	00.76	23.4
	76	21	07.72	188.5
Hulls Neck (Va.), 1859	37	57	00.93	28.7
	76	21	07.53	183.8
Three pines, 1867	38	03	14.00	431.6
	76	21	19.16	467.1
Cornfield Point, 1859	38	03	14.93	460.3
	76	21	20.50	500.0
Hawks Nest, 1867	38	03	16.34	503.8
	76	21	21.51	524.4
Cornfield tree, 1859	38	03	16.43	506.6
	76	21	21.64	527.6
Windmill, center, 1859	38	03	36.72	1,132.2
	76	21	45.00	1,097.1
Hull Creek house, north chimney (Va.), 1867.	37	57	26.96	831.2
	76	23	27.18	663.5
Coan River (Va.), 1867	37	59	28.42	876.2
	76	26	41.36	1,009.2
Kingscote (Va.), 1867	37	59	48.52	1,496.0
	76	27	42.66	1,040.9
John Bitzel's northeast chimney (Va.), 1867.	37	59	48.54	1,496.6
	76	27	48.09	1,173.3
Lower Potomac (Va.), 1867	38	00	42.88	1,322.1
	76	27	38.76	945.6
Hog Island (Va.), 1859	38	00	42.63	1,314.4
	76	27	38.49	939.0

Station	Latitude and longitude			Seconds in meters
POTOMAC RIVER—contd.	°	′	″	
Topographic and hydrographic signal (Va.), 1859.	38	00	44.83	1,382.2
	76	27	40.98	999.7
Calvert Bay, 1859	38	05	29.21	900.6
	76	23	29.22	712.0
West Pine (Va.), 1867	38	00	45.43	1,400.7
	76	27	42.02	1,025.1
Fauntleroy's house (Va.), 1859.	38	01	26.27	810.0
	76	30	43.24	1,054.6
Old windmill (Va.), 1867	38	01	25.45	784.7
	76	30	31.30	763.4
White windmill (Va.), 1859 (see "Old windmill," above).	38	01	25.55	787.8
	76	30	31.30	763.4
Thicket Point (Va.), 1859	38	01	41.18	1,269.7
	76	30	57.60	1,404.8
Windmill Point (Va.), 1867	38	01	40.47	1,247.8
	76	30	56.92	1,388.2
Horn Point (Va.), 1859	38	01	44.46	1,370.8
	76	32	48.57	1,184.6
Bain Point (Va.), 1867	38	01	34.87	1,075.1
	76	32	11.06	269.8
Lyle's house, east chimney (Va.), 1867.	38	01	17.71	546.0
	76	32	41.05	1,001.3
Kinsale Point (Va.) 1867	38	01	44.52	1,372.6
	76	32	48.99	1,194.8
Cherry Tree (Va.), 1867	38	01	35.89	1,106.6
	76	32	07.01	171.0
Joseph Hudson's west chimney (Va.), 1867.	38	01	28.92	891.7
	76	34	07.71	188.0
Ebitt's house, south chimney (Va.), 1867.	38	02	20.60	635.1
	76	33	13.72	334.6
Yeocomico (Va.), 1867	38	02	42.99	1,325.5
	76	31	05.30	129.2
Mundys Point poplar (Va.), 1859.	38	01	17.43	537.4
	76	32	41.07	1,001.7
Lynchs Point (Va.), 1859	38	02	45.44	1,401.0
	76	31	05.98	145.8
Fish house, middle of door (Va.), 1859.	38	03	52.80	1,627.9
	76	31	46.60	1,130.0
Fishers Point (Va.), 1867	38	04	27.74	855.3
	76	32	07.20	175.5
Sandy Point (Va.), 1859	38	04	27.90	860.2
	76	32	06.88	167.7
George No. 1, 1859	38	06	11.75	362.3
	76	28	13.91	338.9
Piney Point lighthouse signal, 1859.	38	08	07.17	221.0
	76	31	48.00	1,169.0
Clinton Dean's southeast chimney, 1867.	38	09	02.39	73.7
	76	32	15.94	388.1
Ragged Point (Va.), 1859	38	08	57.89	1,784.9
	76	36	45.57	1,109.6
Ragged Point tree (Va.), 1867.	38	08	57.80	1,782.1
	76	36	45.73	1,113.5
Potomac (Va.), 1867	38	08	57.62	1,776.5
	76	36	45.46	1,106.9
Long house, south chimney, 1867.	38	11	58.70	1,809.9
	76	34	02.66	64.7
Tower Hill, 1867	38	12	22.93	707.0
	76	34	44.92	1,092.9
Thomas Hobb's quarters, chimney, 1867.	38	12	26.10	804.7
	76	34	50.06	1,217.9
Small white house, northeast chimney (Va.), 1867.	38	07	32.03	987.5
	76	37	58.29	1,419.8
Lower Machadoc (Va.), 1867.	38	09	13.01	401.1
	76	37	52.53	1,279.0
New Coles (Va.), 1859	38	09	13.35	411.6
	76	37	53.53	1,303.3
Old Coles (Va.), 1859	38	09	13.41	413.5
	76	37	53.79	1,309.7
Abel's house, south apex, 1867.	38	13	29.70	917.6
	76	37	28.99	705.2
White 2-story house, east chimney (Va.), 1867.	38	07	13.92	429.2
	76	38	06.30	153.5
Bluff Point (Va.), 1867	38	08	08.31	256.2
	76	38	14.05	342.2
Cupola, 1859	38	13	32.50	1,002.1
	76	38	57.99	1,410.5
Forbes, 1866	38	13	34.26	1,056.3
	76	38	58.28	1,417.6
Glebe Creek (Va.), 1867	38	08	03.88	119.6
	76	39	08.84	215.3
Upper Machadoc (Va.), 1867.	38	08	51.64	1,592.2
	76	39	55.01	1,339.4
Nuns Oak, 1867	38	14	20.48	631.5
	76	39	48.75	1,185.6
Lonesome House, south chimney (Va.), 1867.	38	08	39.49	1,217.6
	76	40	20.85	726.8
Robert Coomb's south chimney, 1867.	38	14	03.69	113.8
	76	40	15.37	373.8
Herring Pond (Va.), 1867	38	09	32.65	1,006.7
	76	41	18.71	455.5
Copsico (Va.), 1867	38	09	32.03	987.6
	76	41	32.18	783.5
Currioman (Va.), 1867	38	09	34.65	1,068.4
	76	42	09.38	228.4
Fishing Point flag (Va.), 1867.	38	08	21.95	676.8
	76	43	01.70	41.4
Hollis (Va.), 1867	38	09	41.01	1,264.5
	76	44	48.04	1,169.5
Chantilly (Va.), 1867	38	09	41.02	1,264.8
	76	44	48.14	1,172.0
Hollis's shed, chimney (Va.), 1867.	38	09	46.72	1,409.7
	76	44	54.17	1,318.8
Chantilly house, south chimney (Va.), 1867.	38	09	12.44	383.6
	76	45	46.78	1,139.0
Blakistone Lighthouse signal, 1867.	38	12	26.70	823.2
	76	44	42.77	1,040.6
Sanford house, northeast chimney (Va.), 1862.	38	09	58.60	1,745.1
	76	46	59.36	1,445.0

Station	Latitude and longitude			Seconds in meters
POTOMAC RIVER—contd.	°	′	″	
East Nomini (Va.), 1862	38	10	07.20	222.0
	76	46	48.94	1,191.3
Nomini Hill (Va.), 1867	38	10	07.25	223.5
	76	47	23.27	566.4
Ellis, 1867	38	13	31.96	985.4
	76	45	50.73	1,234.0
Daniel Blakiston's southwest chimney, 1867.	38	13	50.75	1,564.8
	76	46	48.12	1,170.4
St. Catherine tree, 1867	38	14	19.54	602.5
	76	47	59.18	1,439.2
Fisherman's shed, west apex (Va.), 1867.	38	10	18.06	556.8
	76	52	26.58	647.0
Cob Point, 1862	38	15	24.15	744.6
	76	50	51.77	1,258.7
Cliff flag (Va.), 1867	38	10	13.11	404.2
	76	51	31.53	767.5
Popes Creek (Va.), 1867	38	11	59.97	1,849.1
	76	54	58.26	1,417.6
Lone locust (Va.), 1862	38	12	00.07	2.2
	76	54	58.44	1,422.0
Lone locust tree (Va.),1867	38	12	00.18	5.5
	76	55	02.50	60.8
Old mansion, east chimney (Va.), 1867.[1]	38	12	19.46	600.0
	76	56	34.45	838.2
Big Oak house, southwest chimney (Va.), 1862.	38	12	19.48	600.6
	76	56	34.19	831.8
Mattox Creek house, southeast chimney (Va.), 1867.	38	12	53.39	1,640.2
	76	57	47.01	1,143.6
White Point (Va.), 1862	38	15	38.19	1,177.5
	76	57	57.88	1,407.1
Goldman's house, northeast chimney (Va.), 1862.	38	15	13.56	418.1
	76	57	46.36	1,127.2
Poplar on Swan Point, 1862.	38	17	23.46	723.3
	76	54	43.50	1,057.1
Swan Point, 1862	38	17	27.72	854.7
	76	55	29.70	721.7
Old windmill (Va.), 1862	38	16	19.47	600.3
	76	58	45.66	1,109.9
Watson's house, south chimney (Va.), 1862.	38	15	47.75	1,472.3
	76	58	10.77	261.8
House near Rosiers Creek, northeast chimney (Va.), 1862.	38	17	24.17	745.2
	77	00	47.09	1,144.4
Rosier (Va.), 1862	38	16	53.54	1,650.8
	77	00	07.15	173.8
Old chimney at Rosier (Va.), 1862.	38	16	54.03	1,665.9
	77	00	07.99	194.2
Machadoc (Va.), 1862	38	20	09.89	304.9
	77	00	54.85	1,332.1
Red chimney (Va.), 1862	38	21	35.14	1,083.5
	77	00	58.04	1,409.2
Lower Cedar, 1862	38	20	29.65	914.2
	76	58	44.37	1,077.5
Mrs. Harris' house, southeast chimney, 1862.	38	20	19.41	598.5
	76	57	36.20	879.2
POTOMAC RIVER—contd.	°	′	″	
Persimmon (Va.), 1862	38	22	30.27	933.3
	77	00	47.13	1,144.0
Two-story white house, southwest chimney, 1862.	38	21	42.09	1,297.8
	76	58	47.88	1,162.4
Mrs. Watson's house, southeast chimney, 1862.	38	22	54.98	1,695.3
	76	59	08.88	215.5
Popes Creek house, south apex, 1862.	38	23	50.40	1,739.0
	76	59	30.52	740.6
Grimes' house, south chimney (Va.), 1862.	38	23	19.97	615.8
	77	01	42.94	1,042.1
Bluff, 1862	38	25	35.07	1,081.3
	77	00	17.05	413.6
Portico house, south chimney, 1862.	38	26	04.73	145.8
	77	00	21.41	519.3
Bird nest tree, 1862	38	25	37.28	1,149.5
	77	04	09.45	229.2
Mathias Point chimney (Va.), 1862.	38	23	47.17	1,454.4
	77	02	19.16	464.9
Mathias poplar (Va.), 1862.	38	23	50.25	1,549.4
	77	02	18.26	443.1
Mathias Point (Va.), 1862	38	23	46.31	1,427.9
	77	03	22.68	550.4
Upper Cedar, 1862	38	24	27.16	837.5
	77	05	30.52	886.0
Stewart (Va.), 1862	38	22	10.98	338.6
	77	06	25.28	613.7
Robert Speak's house, east chimney, 1862.	38	23	29.88	921.3
	77	08	17.71	429.8
Metompkin (Va.), 1862	38	22	04.28	132.0
	77	08	16.22	393.8
Two-story white house, east chimney, 1862.	38	22	49.53	1,527.2
	77	09	39.17	950.7
Small white house, south chimney, 1862.	38	23	12.22	376.8
	77	08	49.95	1,212.3
Nanjemoy poplar, 1862	38	23	57.51	1,773.3
	77	07	46.36	1,124.9
Adams, 1862	38	22	32.52	1,002.7
	77	10	02.09	50.7
Two-story house, chimney, 1862.	38	22	09.94	306.5
	77	10	53.31	1,294.1
Wheat (Va.), 1862	38	20	40.86	1,259.9
	77	10	04.19	101.7
House, white chimney with black top, 1862.	38	24	34.48	1,063.2
	77	06	36.68	889.9
Fish house chimney (Va), 1862.	38	20	25.50	786.2
	77	11	38.95	945.9
Grimes (Va.), 1862	38	20	26.06	803.5
	77	12	15.45	375.2
Large fish house, north gable end (Va.), 1862.	38	19	56.85	1,752.9
	77	13	56.24	1,366.0
White fish house chimney, 1862.	38	21	40.92	1,261.7
	77	12	37.31	905.8
Maryland, 1862	38	21	45.62	1,406.6
	77	12	59.09	1,434.6

[1] Called "Washington's birth place" in the records of the survey by the U. S. Coast and Geodetic Survey, 1867.

Station	Latitude and longitude			Seconds in meters
POTOMAC RIVER—contd.	°	′	″	
Unpainted house, south chimney, 1862.	38	22	07.47	230.3
	77	13	25.97	630.4
White house, white chimney, 1862	38	22	25.28	779.5
	77	13	51.00	1,238.0
Cleopatra (Va.), 1862	38	19	58.72	1,810.5
	77	15	57.45	1,395.3
White house near Cleopatra, north chimney (Va.), 1862.	38	19	54.39	1,677.0
	77	15	25.06	608.7
Wagner, 1862	38	22	31.51	971.6
	77	14	20.00	485.5
House at Marlborough Point, north chimney (Va.), 1862.	38	21	20.59	634.9
	77	17	29.27	710.7
House on Marlborough Hill, north chimney (Va.), 1862.	38	21	23.25	716.9
	77	18	44.76	1,086.8
Aquia Creek (Va.), 1862	38	22	13.51	416.6
	77	17	54.56	1,324.4
White house near Aquia Creek, north chimney, (Va.) 1862.	38	23	46.21	1,424.8
	77	18	59.70	1,448.7
Dana, 1862	38	23	17.19	530.0
	77	15	11.08	268.9
Unpainted house, south chimney, 1862.	38	23	49.61	1,529.7
	77	15	17.43	423.0
Two-story brown house, chimney with white top, 1862.	38	24	22.10	684.2
	77	15	33.93	823.2
Smiths Point, 1862	38	24	56.90	1,757.2
	77	15	56.11	1,361.2
Brent (Va.), 1862	38	25	32.89	1,014.1
	77	19	15.23	369.4
House with portico over door, east chimney (Va.), 1862.	38	28	01.08	33.3
	77	19	28.48	690.4
Liverpool, 1862	38	27	50.22	1,548.5
	77	16	15.22	369.0
Virginia (Va.), 1862	38	29	18.08	557.5
	77	18	44.59	1,080.6
Hoar's house, east chimney (Va.), 1862	38	29	31.66	976.2
	77	18	40.21	974.4
Sandy, 1862	38	29	21.33	657.7
	77	16	20.52	497.3
Chapowamsic (Va), 1862	38	30	24.15	744.6
	77	17	49.15	1,190.9
Fairoak, 1862	38	30	38.18	1,177.2
	77	15	50.40	1,221.1
House at Shipping Point, north chimney (Va): 1862.	38	31	17.37	535.6
	77	17	20.25	490.5
Chimney, white top (Va.), 1862.	38	31	22.30	687.6
	77	17	18.93	458.6
Ruins, tall red chimney (Va.), 1862.	38	31	38.41	1,184.4
	77	17	08.66	209.8
Shipping Point (Va.), 1862	38	31	38.59	1,189.9
	77	17	00.24	5.8
Budds Ferry, 1862	38	31	33.15	1,022.2
	77	15	16.90	409.4
Posey's house, south chimney, 1862.	38	31	33.54	1,034.2
	77	14	22.20	537.8
Mast of old boat, 1862	38	32	17.08	526.7
	77	14	39.05	945.8
Cockpit Point (Va.), 1862	38	33	22.88	705.5
	77	15	46.62	1,128.8
Cockpit Point, flag (Va.), 1862.	38	33	37.48	1,155.7
	77	15	24.02	581.5
Chicomoxen, barn, south gable, 1862.	38	31	42.01	1,295.4
	77	13	53.93	1,306.3
Stump Neck, 1862	38	33	15.78	486.6
	77	13	29.77	720.8
Fish house, white chimney, (Va.), 1862.	38	35	25.21	777.4
	77	14	51.62	1,249.3
Freestone flag, (Va.), 1862	38	35	01.36	41.9
	77	15	26.24	635.1
Freestone Point (Va.), 1862.	38	35	34.12	1,052.1
	77	14	50.02	1,210.5
Indian Head, 1862	38	35	57.48	1,772.4
	77	11	02.35	56.9
House with 6 chimneys, center chimney on south end, 1862.	38	34	23.16	714.1
	77	12	23.40	566.5
Turtle (Va.), 1862	38	37	14.28	440.3
	77	14	42.10	1,018.5
Occoquan (Va.), 1862	38	38	14.34	442.2
	77	12	59.89	1,448.5
3 small houses, northernmost chimney (Va.), 1862.	38	36	22.06	680.2
	77	14	54.83	1,326.7
High Point (Va.), 1862	38	37	06.50	200.4
	77	12	18.49	447.3
Fish house near North Indian Head, 1862.	38	36	23.48	724.0
	77	10	04.93	119.3
North Indian Head, 1862	38	36	24.07	742.2
	77	10	12.83	310.4
Fish house, west gable, 1862	38	36	21.08	650.0
	77	09	20.78	502.8
Glymont Pavilion, 1862	38	36	36.64	1,129.8
	77	08	23.90	578.2
Sycamore (Va.), 1862	38	37	32.40	999.1
	77	10	14.99	362.6
Fish house near Sycamore, white chimney (Va.), 1862.	38	37	33.98	1,047.8
	77	10	07.78	188.2
Pyes Wharf, 1862	38	36	41.91	1,292.3
	77	08	15.48	374.5
Fish house chimney, 1862	38	37	13.09	403.6
	77	07	24.95	603.6
House on Craney Island, 1862.	38	37	32.67	1,007.4
	77	08	18.75	453.6
Hallowing Point (Va.), 1862.	38	38	05.58	172.1
	77	07	51.86	1,254.3

Station	Latitude and longitude			Seconds in meters
POTOMAC RIVER—contd.	°	′	″	
Pamunkey Creek, 1862	38	38	04.14	127.7
	77	06	39.87	964.3
High tree (Va.), 1862	38	39	05.14	158.5
	77	08	41.63	1,006.7
Long house, 1862	38	39	04.88	150.5
	77	06	46.87	1,133.4
Old house chimney (Va.), 1862.	38	39	17.93	552.9
	77	08	36.58	884.5
Gunsen Cove (Va.), 1862	38	39	20.08	619.2
	77	08	39.20	947.9
Gut Landing, 1862	38	39	50.74	1,564.6
	77	06	57.72	1,395.5
White Stone Point (Va.), 1862.	38	40	34.35	1,059.2
	77	07	48.96	1,183.5
White house pavilion (Va.), 1862.	38	40	48.88	1,507.2
	77	07	36.00	870.2
Stevenson, 1862	38	40	16.02	494.0
	77	06	54.17	1,309.5
Briscoe, 1862	38	40	54.54	1,681.7
	77	06	21.68	524.0
Marshal Point, 1862	38	41	09.46	291.7
	77	06	01.40	33.8
Ferry Point (Va.), 1862	38	41	49.81	1,535.9
	77	06	18.45	445.8
White chimney on Ferry Point (Va.), 1862.	38	41	50.92	1,570.1
	77	06	17.23	416.4
Signboard on Mount Vernon Wharf (Va.), 1862.	38	42	19.42	598.8
	77	05	20.00	483.3
Bryants Point, 1862	38	41	44.02	1,357.4
	77	04	07.05	170.4
Hunting Creek (Va.), 1862	38	42	31.36	967.0
	77	04	50.59	1,222.4
Target (Va.), 1862	38	42	30.77	948.8
	77	03	11.47	277.1
Mockley Point, 1862	38	42	07.48	230.6
	77	02	45.53	1,100.2
Fort Washington flagstaff, 1862.	38	42	40.29	1,242.4
	77	02	06.33	152.9
Fort Washington, 1862	38	42	45.38	1,399.3
	77	02	11.25	271.8
Fish house, west chimney, 1862.	38	43	12.76	393.5
	77	01	51.87	1,253.1
Sheridan Point (Va.), 1862	38	43	20.41	629.4
	77	02	33.40	806.8
Broad Creek, 1862	38	44	14.86	458.2
	77	01	46.38	1,120.2
Red House Point (Va.), 1862.	38	44	28.02	864.0
	77	02	33.33	805.0
Unpainted house, chimney, 1862.	38	44	35.29	1,088.2
	77	01	17.96	433.8
White house, west chimney, 1862.	38	45	31.33	966.1
	77	01	31.96	771.7
Hell Hole Point (Va.), 1862.	38	46	00.57	17.6
	77	02	29.10	702.5
Rosiers Bluff, 1862	38	46	20.18	622.3
	77	01	51.23	1,236.7
Pioneer Mills, chimney, 1862.	38	48	05.78	178.2
	77	02	24.82	598.9
Oxon Hill, 1857	38	47	58.52	1,804.6
	77	00	23.69	571.7
Fox Ferry (D. C.), 1862	38	48	06.74	207.8
	77	01	36.53	881.5
Theological Seminary (Va.), 1846.	38	49	13.61	419.7
	77	05	32.21	777.1
Theological Seminary (Va.), 1862.	38	49	13.48	415.7
	77	05	31.27	754.4
Naval Observatory, signal (D. C.), 1862.	38	53	42.01	1,295.4
	77	03	05.86	141.2
Fox Ferry (D. C.), 1884	38	48	06.25	192.7
	77	01	36.27	875.2
Hatton, 1857	38	42	58.46	1,802.6
	76	59	15.00	362.4
Hammersly (Va.), 1857	38	45	28.63	882.7
	77	04	09.52	229.9
Snyder's house, gable, 1880	38	57	43.81	1,351.0
	76	57	21.73	523.2
Countsman's house, chimney, 1880.	38	57	55.55	1,713.0
	77	04	58.65	1,411.8
Riggs's barn, lightning rod on cupola, 1880.	38	58	12.96	399.6
	76	58	27.55	663.2
Fort Bayard, small flagstaff, 1863.	38	57	19.0	585.9
	77	05	29.2	703.1
Blair's (Montgomery) house, 1863.	38	59	29.23	901.4
	77	01	56.95	1,370.6
Offut's stone house, 1863	39	00	25.98	801.2
	77	11	14.80	356.1
Maryland Agricultural College, 1863.	38	59	00.88	27.1
	76	56	37.88	911.8
Brick house, cupola, 1863	38	58	42.67	1,315.9
	76	57	33.84	814.5
Yellow roof, white cupola, 1863.	38	56	46.74	1,441.3
	76	56	33.35	803.1
Yellow mill, south apex, 1863.	38	56	31.27	964.3
	76	56	06.12	147.4
Bladensburg church, east apex, 1863.	38	56	26.09	804.6
	76	56	27.31	657.7
Painted house, south apex, 1863.	38	56	15.70	484.1
	76	56	05.40	130.0
Locust, 1884	38	56	45.99	1,418.2
	77	07	02.99	72.0
Rockville, southeast base, 1892.	39	05	34.24	1,055.9
	77	11	31.29	751.9
Rockville, northwest base, 1892.	39	05	50.32	1,551.8
	77	11	42.17	1,013.3
Smith, 1892	39	05	11.39	351.4
	77	09	36.75	883.3
Jones Point (Va.), 1884	38	47	25.18	776.5
	77	02	26.67	643.6

Station	Latitude and longitude			Seconds in meters
POTOMAC RIVER—contd.	°	′	″	
Ferry Point, 1881	38	48	20.55	633.6
	77	01	18.39	443.6
Fort Meigs, flagstaff, 1863	38	52	26.5	817.2
	76	55	50.8	1,224.6
Carroll, lightning rod, 1880	38	58	43.99	1,356.6
	77	00	15.58	375.0
Fort Simmons, flagstaff, 1863	38	57	06.6	203.5
	77	05	52.1	1,125.4
Fort Marcy flagstaff (Va.), 1863	38	56	06.5	200.4
	77	07	35.4	852.6
Redoubt Kirby (Fort Franklin), flagstaff, 1863	38	57	22.3	687.7
	77	07	26.5	638.0
Redoubt Cross (Fort Ripley), flagstaff, 1863	38	57	17.1	527.3
	77	07	22.4	539.3
Redoubt Davis (Fort Alexander), flagstaff, 1863	38	57	18.5	570.5
	77	07	30.0	722.2
Fort Sumner, camp, flagstaff, 1863	38	57	15.3	471.8
	77	07	28.8	693.5
Magruder, 1880	38	54	36.50	1,127.2
	76	55	45.23	1,089.5
Lee, 1884	38	53	27.44	846.1
	76	54	27.59	664.9
Fort Mansfield, flagstaff, 1863	38	57	09.4	289.8
	77	06	07.1	170.9
ST. MARYS RIVER AND SMITH CREEK				
Kits Point, 1859	38	06	12.86	396.5
	76	25	17.59	428.6
Ran, 1908	38	07	38.58	1,189.5
	76	24	45.84	1,116.6
Kitts Point Beacon No. 1, 1901	38	06	01.46	45.0
	76	24	19.86	483.8
Smith Creek Beacon No. 2, 1901	38	06	08.07	248.8
	76	24	28.09	684.4
St. Mary, 1867	38	06	10.60	326.8
	76	28	32.67	796.0
George No. II, 1859	38	06	15.89	489.9
	76	27	54.82	1,335.6
Haywood, 1859	38	07	07.80	240.5
	76	25	53.83	1,311.2
Cecil, 1859	38	07	50.13	1,545.6
	76	27	39.66	965.9
Fort Point, 1859	38	08	08.07	248.8
	76	26	18.89	460.0
Coad, 1859	38	08	38.71	1,193.5
	76	27	53.44	1,301.3
St. Inigo, 1859	38	09	02.45	75.5
	76	26	31.74	772.8
St. Inigo windmill, 1859	38	09	02.37	73.1
	76	26	30.66	746.5
Hardy, 1859	38	09	34.03	1,049.2
	76	26	17.82	433.8
Windmill Point, 1859	38	09	30.67	945.6
	76	27	01.13	27.5
ST. MARYS RIVER AND SMITH CREEK—continued	°	′	″	
Chancellor, 1859	38	10	06.24	192.4
	76	26	40.77	992.4
Edwards, 1859	38	10	28.64	883.1
	76	27	05.32	129.5
East St. Marys Point, 1859	38	11	17.29	533.1
	76	26	17.49	425.6
West St. Marys Hill, 1859	38	10	55.42	1,708.8
	76	27	02.62	63.8
ST. CLEMENT BAY				
St. Clements, 1867	38	13	40.75	1,256.4
	76	44	42.62	1,036.6
Mattingly, 1867	38	14	22.10	681.4
	76	43	14.98	364.3
Mattingly house, chimney, 1867	38	14	22.43	691.6
	76	43	10.24	249.0
Birch house, north chimney, 1867	38	14	29.27	902.5
	76	44	14.25	346.5
St. Patrick, 1867	38	14	13.59	419.0
	76	44	16.62	404.2
Long Point, 1867	38	14	27.28	841.1
	76	43	20.92	508.7
St. Clements hawk's nest, 1867	38	14	39.86	1,229.0
	76	42	38.29	931.1
Bluff Woods, 1867	38	15	17.19	530.0
	76	43	17.67	429.6
Canoe Neck, 1867	38	15	17.40	536.5
	76	43	17.45	424.3
Chapel Oak, 1867	38	15	26.52	817.7
	76	42	22.15	538.5
Bluff Woods, north chimney, 1867	38	15	29.57	911.7
	76	43	11.83	287.6
Chapel Point, 1867	38	15	30.19	930.8
	76	42	27.14	659.8
Newtown, 1867	38	15	31.58	973.7
	76	42	23.90	581.1
Piazza house, 1867	38	15	52.19	1,609.2
	76	42	06.38	155.1
Shipping Point, 1867	38	15	57.57	1,775.1
	76	42	50.37	1,224.5
Commercial Point, 1867	38	15	57.63	1,776.9
	76	42	50.75	1,233.7
Carberry's house, chimney, 1867	38	16	05.64	173.9
	76	42	09.98	242.6
Howards Point, 1867	38	16	15.89	489.9
	76	42	36.64	890.7
Lynn Oaks, 1867	38	16	22.37	689.7
	76	42	33.53	815.0
Lynn Howard's northwest chimney, 1867	38	16	22.40	690.7
	76	42	31.09	755.7
Thomas McWilliam's north chimney, 1867	38	16	22.53	694.7
	76	43	10.61	257.9
James McWilliam's south chimney, 1867	38	16	45.52	1,403.5
	76	43	06.11	148.5

Station	Latitude and longitude			Seconds in meters
ST. CLEMENT BAY—contd	°	′	″	
Hazel, 1867	38	16	53.65	1,654.2
	76	42	36.66	891.0
Rocky Point, 1867	38	16	55.17	1,701.1
	76	42	35.60	865.3
Old Windmill Point, 1867	38	17	13.65	420.9
	76	43	01.06	25.8
Cedar Point, 1867	38	17	14.55	448.6
	76	43	02.74	66.6
Mill house, west chimney, 1867.	38	17	33.63	1,036.9
	76	42	23.73	576.7
Guess Point, 1867	38	17	45.06	1,389.3
	76	42	56.26	1,367.1
Benjamin Swan's north chimney, 1867.	38	17	47.75	1,472.3
	76	43	30.66	745.0
Rikers Creek, 1867	38	17	50.42	1,554.6
	76	42	52.26	1,269.9
Jeremiah Hubbard's northeast chimney, 1867.	38	18	11.63	358.6
	76	43	37.04	900.0
Long Bar, 1867	38	18	14.10	434.7
	76	43	24.10	585.6
Matthew Stone's west chimney, 1867.	38	18	19.34	596.3
	76	43	03.92	95.2
BRETONS BAY				
Blue Sow, 1867	38	14	03.55	109.5
	76	42	19.24	467.9
Huggin Point, flag, 1867	38	13	56.04	1,727.9
	76	41	16.91	411.3
H. J. Kaywood, 1866	38	14	22.98	708.5
	76	42	02.40	58.4
Hawk's nest, 1866	38	14	42.56	1,312.3
	76	40	31.47	765.3
Breton, 1866	38	14	43.15	1,330.4
	76	40	18.46	448.9
South, 1866	38	14	52.08	1,605.8
	76	40	37.13	902.9
Priest's house, southwest chimney, 1867.	38	15	19.43	599.1
	76	42	00.48	11.7
Priest's house, south chimney, 1866.	38	15	19.52	601.9
	76	42	00.06	1.5
Reeds Point, 1866	38	15	33.64	1,037.2
	76	40	27.08	658.4
Lovers Point, 1867	38	15	33.46	1,031.7
	76	38	44.60	1,084.3
W. Goughs, 1866	38	15	33.53	1,033.8
	76	38	44.57	1,083.6
Society Hill, 1867	38	15	36.80	1,134.7
	76	39	56.48	1,373.1
C. Thompson's south chimney, 1866.	38	15	37.96	1,170.4
	76	41	11.71	284.7
Windmill, 1866	38	15	47.21	1,455.6
	76	41	41.62	1,011.8
Pawpaw, 1866	38	15	49.02	1,511.4
	76	39	22.55	548.2

Station	Latitude and longitude			Seconds in meters
BRETONS BAY—continued	°	′	″	
Greenwell, 1866	38	15	54.92	1,693.3
	76	38	24.55	596.8
Mulberry Point, 1867	38	16	09.70	299.1
	76	38	39.11	950.7
Gurten, 1866	38	16	10.21	314.8
	76	38	38.82	943.7
J. Gurten's house, chimney, 1866.	38	16	10.41	321.0
	76	38	39.19	952.7
Ginies Point, 1866	38	16	31.70	977.4
	76	37	43.41	1,055.2
Buzzards Point, 1866	38	16	46.55	1,435.3
	76	37	58.06	1,411.2
Hickory tree, 1866	38	16	46.89	1,445.8
	76	37	59.18	1,438.4
S. Foxwell, center chimney, 1866.	38	17	01.38	42.5
	76	37	51.95	1,262.6
WICOMICO RIVER				
St. Margaret Island, 1867	38	15	01.99	61.4
	76	48	42.11	1,023.9
Island house, chimney, 1867	38	15	02.32	71.5
	76	48	38.73	941.7
Bluff, 1867	38	15	19.22	592.6
	76	50	36.46	886.5
E. A. Will's, southwest chimney, 1867.	38	15	02.57	79.2
	76	48	07.39	179.7
Lancaster Wharf, 1867	38	16	23.08	711.6
	76	50	02.76	67.1
Lancaster, 1867	38	16	25.33	781.0
	76	50	01.01	24.5
Hammett, 1867	38	16	08.58	264.5
	76	48	32.61	792.7
Plowden's house, southwest chimney, 1867.	38	17	49.43	1,524.1
	76	47	36.64	890.4
Plowden's store flagstaff, 1867.	38	16	59.08	1,821.6
	76	48	23.07	560.7
Charleston Creek, 1867	38	17	21.23	654.6
	76	50	24.76	601.7
Wicomico, 1867	38	15	34.47	1,062.8
	76	50	21.27	517.1
White Pine Island, 1867	38	17	06.96	214.6
	76	49	13.82	335.9
Bluff Tree, 1867	38	18	00.99	30.5
	76	50	55.51	1,348.8
Pond Point, 1867	38	18	04.78	147.4
	76	49	31.42	763.5
Spaulding's cupola, 1867	38	18	33.99	1,048.0
	76	49	23.20	563.7
Cob Neck, 1867	38	18	57.81	1,782.5
	76	51	06.03	146.5
Clavoe's house, west chimney, 1867.	38	19	06.50	200.4
	76	49	39.74	965.4
Bowmans Creek, 1867	38	20	17.91	552.2
	76	52	09.48	230.2

Station	Latitude and longitude			Seconds in meters
WICOMICO RIVER—contd.	°	′	″	
Range oak, 1867	38	19	44.39	1,368.7
	76	50	06.01	146.0
Mills Point, 1867	38	20	12.92	398.4
	76	50	32.67	793.5
Duncan Turner's house, west chimney, 1867.	38	20	07.08	218.3
	76	50	10.79	262.1
J. W. Burrough's, east chimney, 1867.	38	20	52.54	1,620.0
	76	51	44.92	1,090.8
Wicomico Farm, 1867	38	20	42.53	1,311.4
	76	51	50.05	1,215.4
Bushwood's quarters, north chimney, 1867.	38	20	48.13	1,484.0
	76	49	37.21	903.6
Chaptico, 1867	38	21	07.78	239.9
	76	50	18.06	438.5
Stoddard, 1867	38	21	32.04	987.9
	76	51	23.47	569.8
Bluff-house chimney, 1867	38	21	56.70	1,748.3
	76	50	15.49	376.0
PORT TOBACCO				
Port Tobacco base, east end, 1862.	38	26	40.57	1,250.9
	77	02	25.79	625.4
PORT TOBACCO—continued	°	′	″	
Port Tobacco base, west end, 1862.	38	26	55.32	1,705.7
	77	03	11.09	268.9
Chapel Point, 1862	38	27	48.05	1,481.6
	77	01	52.43	1,271.1
Small house, chimney, 1862	38	28	07.42	228.8
	77	02	47.48	1,175.3
Brent's house, south chimney, 1862.	38	28	05.79	178.5
	77	02	56.09	1,359.8
Seminary, 1862	38	27	56.00	1,726.7
	77	01	25.69	622.8
Deep Point, 1862	38	28	34.33	1,058.5
	77	01	59.43	1,440.6
High Field, 1862	38	29	28.70	884.9
	77	01	52.64	1,275.7
White house on point, chimney, 1862.	38	29	45.24	1,394.9
	77	01	19.44	471.1
House on bluff, south chimney, 1862.	38	30	24.25	747.7
	77	01	05.92	143.4
Port Tobacco Courthouse, cupola, 1862.	38	30	40.92	1,261.7
	77	01	14.34	347.4

DESCRIPTIONS OF TRIANGULATION STATIONS

This list of descriptions of stations may be conveniently consulted by reference to the illustrations at the end of this publication or to the index. All azimuths given in the descriptions are reckoned continuously from true south around by west to 360°, south being 0°, west 90°, north 180°, and east 270°. Where magnetic azimuths are given they are indicated as such.

In general, except where the contrary is specifically stated, the surface and underground mark are not in contact, so that a disturbance of the surface mark will not necessarily affect the underground mark. The underground mark should be resorted to only in cases where there is evidence that the surface mark has been disturbed.

The name and dates given in each description immediately after the county refer to the chief of party by whom the station was established, the date of the establishment of the station, and the date when the station was last recovered.

Any person who finds that one of the stations herein described has been disturbed or that the description no longer fits the facts is requested to send such information to the Director, United States Coast and Geodetic Survey, Washington, D. C.

MARKING OF STATIONS

The standard disk station and reference marks referred to in the following descriptions and notes consist of a disk and shank of brass cast in one piece, as shown in Figure 2. The disk of the station mark is 90 mm. in diameter, with a hole at the center surrounded by a 20-mm. equilateral triangle, and has the following inscribed legend: "U. S. Coast and Geodetic Survey Triangulation Station. For information write to the Superintendent, Washington, D. C. $250 fine or imprisonment for disturbing this mark." On the new marks made since March, 1921, the word "Director" replaces the word "Superintendent" in the inscription. The shank is 25 mm. in diameter and 80 mm. long, with a slit at the lower end into which a wedge is inserted, so that when it is driven into a drill hole in the rock it will bulge at the bottom and hold the mark firmly in place. The marks used during the past 10 years have grooves cut around the shank instead of the slit.

The standard disk reference mark, shown in Figure 2, is the same size and shape as the station mark, with an arrow on the top in place of the triangle, which, when properly set, points to the station. The legend is the same, except the words "reference mark" take the place of the words "triangulation station."

The following notes on the marking of stations are made as general as possible in order that it may not be necessary in the field to describe small and unimportant variations:

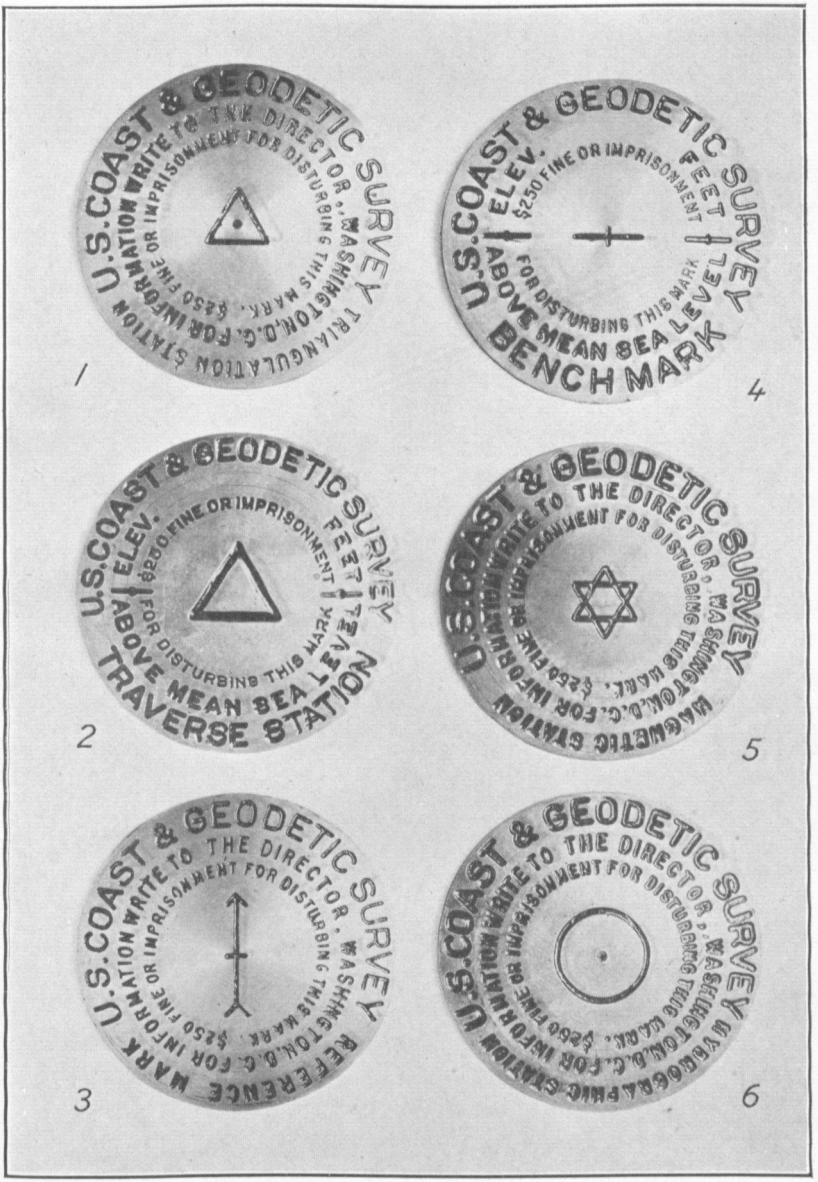


FIG. 2.—STANDARD MARKS OF THE U. S. COAST AND GEODETIC SURVEY

1. Triangulation station mark
2. Traverse station mark
3. Reference mark
4. Bench mark
5. Magnetic station mark
6. Hydrographic station mark

STANDARD NOTES ON THE MARKING OF STATIONS

SURFACE MARKS

Note 1.—A standard bronze tablet set in the top of (*a*) a square block or post of concrete, (*b*) a concrete cylinder, (*c*) an irregular mass of concrete.

Note 2.—A standard bronze tablet wedged in a drill hole in outcropping bedrock, (*a*) and surrounded by a triangle chiseled in the rock, (*b*) and surrounded by a circle chiseled in the rock, (*c*) at the intersection of two lines chiseled in the rock.

Note 3.—A standard bronze tablet set in concrete in a depression in outcropping bedrock.

Note 4.—A standard bronze tablet wedged in a drill hole in a bowlder.

Note 5.—A standard bronze tablet set in concrete in a depression in a bowlder.

Note 6.—A standard bronze tablet set in concrete at the center of the top of a tile (*a*) which is embedded in the ground, (*b*) which is surrounded by a mass of concrete, (*c*) which is fastened by means of concrete to the upper end of a long wooden pile driven into the marsh, (*d*) which is set in a block of concrete and projects from 12 to 20 inches above the block.

UNDERGROUND MARKS

Note 7.—A block of concrete 3 feet below the ground containing at the center of its upper surface (*a*) a standard bronze tablet, (*b*) a copper bolt projecting slightly above the concrete, (*c*) an iron nail with the point projecting above the concrete, (*d*) a glass bottle with the neck projecting a little above the concrete, (*e*) an earthenware jug with the mouth projecting a little above the concrete.

Note 8.—In bedrock, (*a*) a standard bronze tablet wedged in a drill hole, (*b*) a standard bronze tablet set in concrete in a depression, (*c*) a copper bolt set in cement in a drill hole or depression, (*d*) an iron spike set point up in cement in a drill hole or depression.

Note 9.—In a bowlder 3 feet below the ground, (*a*) a standard bronze tablet wedged in a drill hole, (*b*) a standard bronze tablet set in concrete in a depression, (*c*) a copper bolt set with cement in a drill hole or depression, (*d*) an iron spike set with cement in a drill hole or depression.

Note 10.—Embedded in earth 3 feet below the surface of the ground, (*a*) a bottle in an upright position, (*b*) an earthenware jug in an upright position, (*c*) a brick in horizontal position with a drill hole in its upper surface.

REFERENCE MARKS

Note 11.—A standard bronze tablet with the arrow pointing toward the station set at the center of the top of (*a*) a square block or post of concrete, (*b*) a concrete cylinder, (*c*) an irregular mass of concrete.

Note 12.—A standard bronze tablet with the arrow pointing toward the station, (*a*) wedged in a drill hole in outcropping bedrock, (*b*) set in concrete in a depression in outcropping bedrock, (*c*) wedged in a drill hole in a bowlder, (*d*) set in concrete in a depression in a bowlder.

Note 13.—A standard bronze tablet with the arrow pointing toward the station set in concrete at the center of the top of a tile, (*a*) which is embedded in the ground (*b*) which is surrounded by a mass of concrete, (*c*) which is fastened by means of concrete to the upper end of a long wooden pile driven into the marsh, (*d*) which is set in a block of concrete and projects from 12 to 20 inches above the block.

WITNESS MARKS

Note 14.—A conical mound of earth surrounded by a circular trench.

Note 15.—A tree marked with (*a*) a triangular blaze with a nail at the center and each apex of the triangle, (*b*) a square blaze with a nail at the center and each corner of the square, (*c*) a blaze with a standard disk reference mark set at its center into the tree.

ADDITIONAL NOTES

Note 16.—The standard monuments of the Maryland Shell Fish Survey are made of concrete and are 2 feet long and 8 inches square at the top and bottom. Their tops are all marked with the same mold and show a center hole surrounded by a triangle, with the counter-sunk letters "M.S.F.C." arranged around the vertex, and the letters "U.S.C.S." underneath the base of the triangle. The center hole is always at the center of the monument, and if the marking has been broken off without disturbing the bottom, the center of the square section may be used as the location of the station. The monuments are set vertically in the ground, with tops projecting about 3 to 5 inches above the surface, unless otherwise noted, and in the same manner whether used for station marks or for reference marks.

Note 17.—The subsurface mark is the center of a 2-inch drain tile pipe buried with the top 2 inches below the base of the monument, or other surface mark.

Note 18.—The station mark is the center of a wooden box made to receive a 4-inch pole set upright with the top just at the surface of the ground; (a) a nail in a stub set in the box as above described.

Note 19.—The station is marked by two 4-inch or 6-inch drain tiles set one above the other, the top of the upper one being about 8 inches below the surface of the ground. Above the tiles, flush with the surface, is a nail in a 4-inch stub.

Note 20.—The station mark is a concrete post, 6 inches square and 3 feet long, with galvanized iron rod throughout its length.

Note 21.—The underground station mark is a glass bottle buried three feet below the surface of the ground with the neck up and surrounded with cement. This was covered with 3 inches of sand, above which was placed a surface station mark consisting of a 3 inch or 4 inch draintile, 26 inches long, large end down, filled and surrounded with concrete, with top of tile flush with surface of ground. The center was marked by a 60d. wire nail set head down in the concrete, and surrounded by a triangle and the letters "U.S.C. & G.S. 1909" (or other year) cut in the concrete. (*a*) A buried bottle and nail in concrete at top of tile, set as above, was sometimes used for a reference mark.

FIRST-ORDER TRIANGULATION—EASTERN OBLIQUE ARC AND THIRTY-NINTH PARALLEL

Buck 2 (New Castle County, Del., J. Ferguson, 1835).—On the high bank on the south side of the Chesapeake and Delaware Canal, about 550 yards west of the Summit Bridge. Station is 15 feet from north edge of bank. Marking not known.

Meeting House Hill (New Castle County, Del., J. Ferguson, 1845; 1881).—On the highest part of the hill, in the northern corner of the crossroads, on land belonging to Joseph Gilbert. Station is 73.2 feet from large oak tree on opposite side of road and directly behind house in western corner of crossroads; 69.4 feet from center of road leading toward the north, and about 250 meters from Grand View. Marking not known.

Principio (Cecil County, J. Ferguson, 1845; 1878).—On the highest part of a densely wooded ridge, about 2½ miles N. 24° W. from Charlestown, and 200 yards north mag.) from a crossroads, known locally as Foys Patch, on land owned (in 1834) by the Principio Furnace Co., and about ½ mile northwesterly from the furnace. In 1878 the station was re-marked with a 1-gallon stone pot, the top of which was 2.75 feet below surface of ground. Under the pot was placed a half-pint mineral water bottle, standing on end, exactly central with station. The pieces of the earthenware pot which originally marked the station were placed inside the new one. A bottle, similar to the one above mentioned, was placed 3 feet below surface of ground, on line to Meeting House Hill station, its neck pointing toward station and 3 feet distant therefrom. The reference marks placed in 1866 were three stones, 2 feet 9 inches in length, and averaging 6 by 10 inches in thickness, sunk halfway into the ground, and each 6 feet from the station, two in line with the station, the third at right angles to this line.

Turkey Point (Cecil County, J. Ferguson, 1845; 1896).—On Turkey Point, a bluff headland at the head of Chesapeake Bay, separating the mouths of the Elk and Northeast Rivers, on land belonging to the United States Bureau of

For notes in regard to marking of stations see p. 257.

Lighthouses. The station was marked by an earthenware jar set below the surface of the ground; this jar was later surrounded by a casing composed of two courses of bricks set in cement, and in 1896 the station was re-marked with a 5-inch glazed draintile set in cement with its top 3 feet below the surface of the ground, the center of the tile marking the station. The surface mark is a 40d nail in a 4 by 4 by 28 inch yellow pine post, with top set even with surface of ground. The foot of the lightning rod on Turkey Point Lighthouse is distant 290.15 feet from the station; the door of the fog-bell house is 211.9 feet distant; a sassafras tree near line fence is distant 302.9 feet in azimuth 135° 48′.9, while ⅜ mile distant in azimuth 177° 12′.1 is a walnut tree, in range with which and in the fence line were placed a stone and a locust post, distant 216 feet from the station. A walnut tree in line fence is 265.5 feet distant in azimuth 207° 44′.7 from the station.

Osbornes Ruin (Harford County, J. Ferguson, 1844; 1896).—In the town of Abington, on a hill formerly known as Dallams Folly, about ¼ mile northwest from the center of the village and a short distance from the road leading from Abington to Belair. The land was owned in 1896 by Ben Swartz, an old man living just east of the hill on the road leading to Harve de Grace. The nearest railroad station is Sewell on the Baltimore & Ohio Railroad. In 1896 the earthenware cone with which the station was originally marked was recovered, its top somewhat fractured. It was lowered in place, so that its top was a little more than 3 feet below the surface of the ground. A chestnut stub was set with its top projecting an inch or two above the ground, a nail in its center marking the station. The following distances and directions were observed in 1896: Belfry on schoolhouse, 0° 00′; corner stone (highest part and about the center), 61.65 feet, 132° 47′; cross on Catholic Church, 156° 59′; nail in blaze on cherry tree, 50.9 feet, 173° 36′; nail in blaze on chestnut tree (largest on hill), 61.0 feet, 262° 19′.

Pooles Island (Harford County, J. Ferguson, 1844; 1898).—On Pooles Island in the upper part of Chesapeake Bay, 429.5 feet N.W. ½ W. from center of well near dwelling. This same range was continued 144.5 feet beyond station and a granite stone with cross cut in top was placed close to the east side of a board fence alongside of farm road. A granite stone was also placed close to this board fence, in line with (toward) the lighthouse and 213.4 feet from the station. The station center was marked by an earthenware jar with a cedar post 2½ feet long through its center and surrounded with cement, sand, and stones. Bricks laid in cement surround the cedar post to the level of its top, which is about 1½ feet below the surface of the ground. In 1896 this station was searched for without success, and a new station (Pooles Island 2) was established. It was reported in 1898 that the original station marks had been recovered.

Finlay (Baltimore County, J. Ferguson, 1844; 1896).—About 9 miles northeasterly from Baltimore, 300 feet east of the old Harford Road, ¾ mile west of the Harford Turnpike, on Cub Hill, on the old Finlay farm, now the property of Theodore Fastie. The northeast corner of an old log house, formerly a schoolhouse but now a blacksmith shop, is 253.71 feet from the station in azimuth 312° 53′.5. The azimuth of the east gable of stone barn on the Fastie place is 189° 27′.5; and a large cherry tree is 126.85 feet from the station in azimuth 337° 14. In 1896 the station was re-marked as follows: A glazed drain tile, 4 inches in diameter and 30 inches long, was sunk in the ground so that its upper end was 3 feet below the surface of the ground. It was set in cement and gravel and the center of the station marked by a 60d. nail. Above this was placed a chestnut post, its top even with the surface of the ground, with a 40d. nail marking the center.

Linstid (Anne Arundel County, J. Ferguson, 1844; 1897).—On the north side of Magothy River, near the head of Broad Creek, on what is known as Eagle Hill, owned in 1897 by Mrs. E. Williams, living in the old Linstid homestead, about ½ mile south of the station. In 1897 the remnants of two large chestnut stumps, marked with spikes in 1844, were recovered. Their distances and directions from the station were: 40.25 feet, S. 41° E., and 35.75 feet, N. 87° 30′ E. From these reference marks the original underground mark was recovered; it is a hollow cone of earthen material 1 inch thick, internal upper diameter 6½ inches, lower diameter 12½ inches, vertical height 15 inches, placed with the top 26 inches below the surface of the ground. A surface mark, a rough granite block with dressed top 5 inches square, was placed above this with top even with the surface of the ground; a ½-inch drill hole, ⅜-inch deep,

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in the top marks the center of the station. Two new references were added as follows: A 60d. nail in a blaze on a 27-inch chestnut tree, N. 76° E. (mag.), from the station, distant 48.87 feet; and a similar mark on a 20-inch chestnut, S. 3° E., distant 17.31 feet. A granite block, 6 by 7 by 18 inches in size, its top dressed to a 5-inch square, with diagonal crosslines cut thereon, was placed in a horizontal position 9 inches below the surface of the ground, its head pointing toward the station and 2 feet north of it.

Swan Point (Kent County, J. Ferguson, 1848).—A station of the original main scheme survey of Chesapeake Bay, situated on what is called Little Swan Point, north of the mouth of Chester River. This station was destroyed through the recession of the shore line. See *Swan Point 3.*

Kent Island north base (Queen Annes County, J. Ferguson, 1844; 1859).—A first-order triangulation station located on the western shore of Kent Island, on the south side of Broad Creek. Reported lost.

Taylor (Anne Arundel County, J. Ferguson, 1847).—A first-order triangulation station on Greenbury Point, between Mill Creek and the Severn River. The station was searched for in 1859 and reported lost.

Kent Island south base (Queen Annes County, J. Ferguson, 1844; 1859.)—A first-order triangulation station located on the west side of Kent Island, on the point of land making the north shore of Price's Creek. The station was recovered in 1859, but in 1888 was reported washed away.

Marriott (Anne Arundel County, J. Ferguson, 1844; 1849).—On the property of B. Marriott, about 6½ miles from South River and about 100 yards from the west side of the road leading from Annapolis to St. Marys. Station is 99 feet from main post of an old windmill and 34.9 feet from a small hut on the south side of the hill. Three stakes were driven in the ground, each 30 feet from the station, the first in azimuth 222° 34′, and the other two at right angles to this line. Center mark was probably a stone post with an underground mark, consisting of an earthenware cone or bottle.

Webb (Anne Arundel County, A. D. Bache, 1850; 1896).—On a hill (but not on its highest part), about 2½ miles by road east of Odenton (Junction), on land belonging (in 1896) to James Woodward, and about ¼ mile north of the old Webb home site; the old Webb house has been replaced by a new one on the same spot. Station was marked by an earthenware cone 1.7 feet below the surface of the ground; above this is a granite block 7 inches square and 5 inches thick, with a hole in its upper surface, 1.1 feet below the surface; and above this was set the surface mark, a rough granite block 1.2 feet long, with its top dressed to a 4-inch square, and having cut thereon two shallow crosslines to mark the center. Three other stone pillars, each 2 feet 2 inches long, and 5 inches square on top, with crosslines cut in their tops, were set as reference marks to the north, east, and south of the station, and each 5 feet therefrom. Other witness marks established in 1848 were as follows: A cedar stump 114 feet from the station in bearing S. 85° 10′ E.; a cedar tree 106 feet from the station in bearing N. 20° E. The distances were measured along surface of the ground. A point on the line between triangulation stations Soper and Linstid was marked by a bottle buried between two cedar posts and 5 feet from each. It was in the road leading from the gate, and 209.7 feet distant.

Hill (Prince Georges County, A. D. Bache, 1846; 1917).—About 1¾ miles a little north of east from the eastern corner of the District of Columbia, on the highest point of a small plateau known as Hill's Hill, on land belonging (in 1917) to E. E. Hill. The subsurface mark is an earthenware cone or bottle, *about 2 feet 3 inches below surface of ground, with a copper nail in a* stub at its center. The surface mark is a rough granite block, with the top dressed 4 inches square, about 26 inches long, with diagonal crosslines on top to mark the center, set flush with the surface of the ground. Three similar stones, tops dressed 6 inches square, with crosslines and flush with the surface were set at the following directions and distances from the station: North, 5.26 feet; east, 5.18 feet; south, 4.89 feet. In 1850 measurements were taken from the station to the following witness marks: Cedar stump with brass screw in top, 151.25 feet, S. 78° 14′ E.; cedar stump, 137.5 feet, S. 30° 16′ W.; cedar stump, 180.5 feet, S. 40° 21′ W.

Soper (Montgomery County, A. D. Bache, 1850; 1868).—Six miles northwest of Beltsville, on land belonging (in 1868) to Benjamin F. Miles, about 92 feet east of the old Columbia Turnpike, the Washington-Baltimore stage road. Due north of the station and 24½ feet distant was a cherry stump with

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a copper nail; in the same line extended north and 110½ feet from the station an oak stub with copper nail was placed between two red oak trees by the side of the road; each of these trees was marked with a notch and a copper nail. A white oak tree on the eastern side of the road was marked with a brass screw about 1 foot above the ground and a notch cut above the screw; this tree is 92½ feet from the station on bearing N. 86° 05′ W. The center of the station was marked by an earthenware cone 2 feet below the surface of the ground, and a dressed granite pillar 2 feet 10 inches long with top 5 inches square, set level with surface of the ground. The crosslines on the top of the stone lie due north and south and at right angles thereto. The reference marks are stones marked similarly to the center stone and placed north, south, and east of the station and each 5 five feet therefrom.

Stabler (Montgomery County, C. O. Boutelle, 1869; 1917).—About 1 mile west of Spencerville post office, and 3 miles east-southeast of Sandy Springs post office, on land owned (in 1868) by Asa Stabler. Station is on the flat summit of a ridge which is covered with orchards and ornamental trees and shrubs, and is close to the boundary fence between the orchard of W. P. Miller and a field of A. M. Stabler. Underground mark is a short-necked quart bottle, filled with ashes, and having inserted in its nose a piece of tracing muslin on which were written the name of the station, its purpose, and its latitude and longitude. This bottle was placed at a depth of 3.75 feet. The surface mark was a freestone post, 30 inches long and 6¾ inches square on top, which was dressed smooth and had the letters "U. S. C. S." cut upon it. The top of the stone was about 2 inches above the surface of the ground. Four reference posts were placed around the center mark, each consisting of a freestone post, 30 inches long with top 5 inches square, having the letters "U. S. C. S." cut thereon; the tops of these posts were placed 2 inches above the ground. These reference posts form a square, the center of each stone being exactly 5 feet from the station, and the sides parallel to the center monument. In the recovery of 1917 it was reported that these reference stones had probably been slightly disturbed by ploughing.

Peach Grove (Fairfax County, Va., C. O. Boutelle, 1869; 1917).—About 2 miles from Lewinsville, 4 miles from Falls Church, close to and east of the Leesburg and Alexandria Turnpike, at its junction with the road to Washington via Lewinsville and the Chain Bridge (Tysons Crossroads), on land belonging to E. Flagg, and about 200 yards east of the site of a large stockade fort built during the war. In 1917 the station was found surrounded by young trees 40 feet high. The underground mark is a short-necked quart bottle filled with ashes, and having inserted in its nose a piece of tracing muslin on which were written the name of the station, its purpose, and its latitude and longitude. This bottle was placed at a depth of 3.75 feet. The surface mark is a freestone post, 30 inches long and 6¾ inches square on top, which is dressed smooth and has the letters "U. S. C. S." cut upon it. The top of the stone was about 2 inches above the surface of the ground. Four freestone reference posts were placed around the center mark, each 30 inches long, the tops 5 inches square, and placed about 2 inches above ground. Each stone is 5 feet distant from the station and a line drawn through the diagonals of each is in the meridian or its perpendicular. An arrow head is placed on the diagonals pointing toward the station.

Sugar Loaf (Frederick County, C. O. Boutelle, 1869; 1892).—On Sugar Loaf Mountain, a well-known mountain about 1,280 feet in elevation, 3 miles north of the junction of the Monocacy and Potomac Rivers. The station is on the south side of the summit and about 12 feet back from the edge of a cliff to the southwest. In 1892 the drill hole in the ledge marking the station center was found, but all other marks had been destroyed. A brass bolt 1 inch in diameter and 5 inches long was set in the drill hole and four reference marks consisting of arrows cut in the rocks were established as follows: No. 1, 2.29 meters (7.51 feet) from station, in azimuth 37° 46′; No. 2, 2.78 meters (9.12 feet), 98°; No. 3, 2.57 meters (8.43 feet), 214° 33′; and No. 4, 3.0 meters (9.8 feet), 306° 15′.

Maryland Heights (Washington County, C. O. Boutelle, 1869; 1887).—On the well-known mountain of Maryland Heights, across the Potomac River from and overlooking Harpers Ferry, and just south of the "Stone Fort," and on land owned (in 1869) by James Groves, of Sharpsburg, Md. The station was marked as follows: Underground mark is a cross cut in the head of a copper bolt set in a large rock 2 feet below the surface of the ground. The face of this rock has

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a dip of about 45°, but a small shelf was cut into it at the station, in which the hole to receive the bolt was drilled ¾ inch in diameter and 1¾ inches deep. A stone post 2 feet long was placed upon this shelf and the center marked on this post by the intersection of two deeply cut diagonal lines. These lines run north and south and east and west. The extreme southern corner of the old stone fort is 18.20 meters (59.7 feet) northwest of the station, the first exterior angle of the south wall to the west of this corner is 9.88 meters (32.41 feet) a little west of north from the station, and the second exterior angle of the south wall from the south corner is 15.15 meters (49.7 feet) northwest from the station. In 1871 five reference marks were established by cutting five squares upon rocks near the station. Each square was 6 inches on a side, with its diagonals in line with the station and at right angles to that direction. An arrow points from the center of each square toward the station. These marks are at the following distances and azimuths from the station: 7.26 meters (23.82 feet), 96° 14′; 8.53 meters (27.99 feet), 161° 30′; 11.17 meters (36.6 feet), 231° 39′; 18.25 meters (59.9 feet), 269° 46′; 10.16 meters (33.3 feet), 340° 49′.

Bull Run (Fauquier County, Va., C. O. Boutelle, 1871; 1892).—On the highest summit of the range called the Bull Run Mountains, 1 mile east-northeast of the little village of Hopewell, 4½ miles in the same direction from Plains railway station, and about 4 miles westerly from Broad Run railway station. The top of the mountain is made up of a collection of large rocks. The station is marked by a brass bolt. Reference marks, consisting of square cuts in the rock with diagonals pointing toward the station and holes drilled at the centers, were made on four sides. Distances and azimuths from the station to the reference marks are as follows: 6.33 meters (20.77 feet), 172° 05′; 7.54 meters (24.74 feet), 277° 07′; 7.33 meters (24.05 feet), 2° 45′; 5.54 meters (18.18 feet), 69° 54′.

Mount Marshall (Rappahannock County, Va., C. O. Boutelle, 1869).—On or near the county line between Rappahannock and Warren Counties, about 5 miles northwesterly from Washington, Va., on the extreme northern edge of the hump of rocks which forms the top of the mountain and which is very precipitous. The station was marked by a hole drilled in a projection of the ledge which is greenstone at this point.

Causten (District of Columbia, A. D. Bache, 1851; 1868).—On the summit of Caustens Hill, on the east side of the Georgetown-Rockville Road (Wisconsin Avenue). The station is marked by a drill hole in the center of the top of a 5-inch stone post sunk 2 feet into the ground. Three similar stones with diagonal grooves were placed 5 feet from the station, respectively, north, east, and south.

Clough (Kent County, F. W. Perkins, 1896).—About 2 miles southwest of Fairlee, on the road to Tolchester Beach. Station is on the farm of A. A. Reinhart, known as Hulme Farm, at the highest point of a field. There are two roads leading from this farmhouse—one to the Chestertown Road and the other to the Tolchester Road. The station is about 20 feet west of the middle of the latter farm road and about 350 feet from the Tolchester Road. Marking not known.

Still Pond (Kent County, F. W. Perkins, 1896).—About ⅞ mile south-southeast of Still Pond post office, on a wood lot on the property of William H. Bowers, 18 paces northwest of the center of the road leading east-northeast from Redding's corner, distant 212 paces. The underground mark is marble block 6 inches square and 18 inches long placed 3 feet below the surface; the surface mark is a marble block 6 inches square and 30 inches long with its upper end even with the surface of the ground. Both stones have crosslines and the letters "U. S. C. & G. S." cut into their upper faces.

Hope (Queen Annes County, F. W. Perkins, 1896–97).—On the north side of the road leading from Centerville to Beaver Dam, and about 1 mile west of Hope post office. The station was marked by two marble blocks, each 6 inches square, the lower one 18 inches and the upper one 30 inches long. The top of the upper stone is level with the surface of the ground. Both stones have crosslines and the letters "U. S. C. & G. S." cut into their upper faces. A stone at the roadside, marking the southeast corner of Mrs. M. A. Fluhardy's portion of the Lansdown plantation (occupied in 1896 by E. S. Clough) is 43.35 feet from the station in azimuth 329° 20′.2; the east chimney of E. Dean's house is in azimuth 221° 03′.9 from the station; the center chimney of E. S. Clough's house is in azimuth 135° 19′.2 from the station.

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Barclay (Queen Annes County, F. W. Perkins, 1896).—About ½ mile east of the village of Barclay, in the northern edge of a peach orchard just south of the road leading east from Barclay to Templeville, and opposite the house of Mr. Anderson. The eastern edge of the east chimney on Mr. Anderson's house bears N. 10° 30′ W. (mag.) from the station. Triangles were cut into two large trees on the north side of the road just outside the fence in front of Mr. Anderson's yard; a hickory tree which is close to and west of the gate leading into the yard being 82.85 feet from the station in bearing N. 13° 30′ W. (mag.); and an oak tree 44.60 feet west of the hickory tree and 97.80 feet from the station in bearing N. 40° 15′ W. (mag.). The underground mark consists of a white stone 6 inches square and 18 inches long, its top 3 feet below the surface of the ground. The surface mark is a gray stone 6 by 8 by 30 inches, its top cut to a 6-inch square, level with the surface of the ground. Both stones have intersecting crosslines to mark the center and the letters "U. S. C. & G. S." cut into their upper faces.

Hartly (Kent County, Del., F. W. Perkins, 1896).—About 9 miles west of Dover and 3 miles from Hartly, on the west side of road leading from Hartly to Kenton, and just north of road leading to Dover past the Lockwood Chapel, being 383.9 feet from the northeast corner of the chapel, and 408.6 feet from the center of the crossroads. On land belonging to E. R. and J. R. Lenker, 80.37 feet from E. R. Lenker's south gatepost, and 170.03 feet from southwest corner of Lenker's house. A small catalpa tree in line fence on road is distant 32.28 feet from the station and the near face of a gum tree on line fence is 99.8 feet. The following directions were observed at the station: North chimney of James Pleasanton's house, 29° 19′.1; cupola on Lockwood Chapel, 54° 48′.0; chimney on Shorts Schoolhouse, 110° 08′.6; north chimney of J. Berry's house, 134° 43′.5; walnut tree about 200 yards distant, 157° 19′.9; chimney on McDowell's house, 215° 46′.9. The underground mark consists of a block of marble 6 inches square and 18 inches long, buried 3 feet below the surface of the ground; the surface mark is a similar block 30 inches long, set with its upper face even with the surface of the ground. Both stones have crosslines to mark the center of the station and the letters "U. S. C. & G. S." cut into their upper faces.

Kent (Kent County, Del., F. W. Perkins, 1896).—About 1 mile north of Hollandville on the farm of L. Dill and just east of his apple orchard. Marking not known. References and distances are: Near corner of cattle pound, 58 feet; near corner of shed adjoining barn, 100 feet; pear tree at near corner of orchard, 71.5 feet; near apple tree of orchard, 79 feet; left-hand gatepost, 147 feet.

CHESAPEAKE BAY, KENT ISLAND TO THE POTOMAC RIVER

Poplar Island (Talbot County, James Ferguson, 1854).—On a point on the southwest side of Poplar Island. In 1859 this station was reported as having been completely washed away.

Blake (Calvert County, E. Blunt, 1854).—On a high hill about 1 mile back from the western shore of Chesapeake Bay, about 5 miles below Herring Bay, on land belonging to a Mr. Blake, who, in 1859, reported that he had moved all witness stakes, as they had interferred with the cultivation of his field, in which the station stood. The cone marking the center of the station was buried 3 feet below the surface of the ground, and may still be in position though searches made in 1855 and 1859 failed to recover it.

Hill Point (Dorchester County, A. H. Seward, 1854).—In 1859 this point was reported as entirely washed away.

Wilson (Calvert County, A. H. Seward, 1854).—On western shore of Chesapeake Bay, about 5 miles above Cove Point. Its markings were described in 1854 as follows: Center, an earthen cone 14 inches below surface of ground. References: Stone pillars, north 4 feet 6 inches; south 4 feet 7¾ inches; and east 4 feet 7 inches. A search in 1859 failed to recover the station.

Travers (Dorchester County, A. H. Seward, 1854; 1859).—Definitely reported as lost in 1898.

Calvert (Calvert County, A. H. Seward, 1854; 1907).—On the western side of Chesapeake Bay, about 2 miles south of Cove Point, about ¼ mile back from the bay shore, on property owned (in 1897) by Doctor Ireland. It is west of the garden which is south of Doctor Ireland's house, being near

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and to the north of the fence which extends along and beyond the south side of the garden. The station center is marked by a cone of gray sandstone, about 4 inches across the top. In 1897 this cone was only 11 inches below the surface of the ground. Two reference marks, granite pillars, were placed near the southwest corner of the garden and close to the fence line where they would not be interfered with by the cultivation of the field. These stones are in range with the station, the western stone (center) being 19 feet 8 inches therefrom, and the stones (centers) being 4 feet 11½ inches apart. A persimmon tree stands to the northeast of the station at a distance of 73.5 feet.

Meekins Neck (Dorchester County, A. H. Seward, 1854).—This point definitely reported in 1897 as lost. See *Meekins Neck 2*.

Cedar Point (St. Marys County, A. H. Seward, 1854).—In 1856 this point was definitely reported as lost.

Toms Point (Dorchester County, E. Blunt, 1847).—In 1897, this point was definitely reported as destroyed. See *Toms Point 2*.

Point No Point (St. Marys County, E. Blunt, 1846; 1908).—On the western shore of Chesapeake Bay, about ⅛ mile northwest of Point No Point, 2 miles northwest of Point No Point Light, and 2 miles north-northeast of entrance to Jerome Creek. Station is partly hidden by pine and cedar trees, about 10 feet above high water, 50 yards west of shore, 65 yards southwest of point where fence and shore meet, 35 yards south of fence, 30 yards south of edge of graveyard, and 250 yards south by east from a house. Center of station marked by stone cone with top 6 inches below surface of ground. Reference marks were set as follows: Stone monuments north 2.44 meters (8.01 feet), east 1.90 meters (6.23 feet), and south 1.29 meters (4.2 feet); and a standard cement monument of Maryland Shell Fish Survey, note 16, 5.17 meters (16.96 feet) from the station in azimuth 77° 42′. Other directions and azimuths are as follows: Nail in blaze in 24-inch tree, 30.00 meters (98.4 feet), 56° 34′; chimney of house, 250 yards, 84° 48′; tangent to fence and graveyard, 30 yards, 163° 31′; two nails in blaze in 22-inch cedar tree, 11.40 meters (37.4 feet) 190° 21′; junction of fence and water, 65 yards, 217° 31′; nail in blaze in tree, 106 feet, 306° 19′.

Holland (Dorchester County, E. Blunt, 1848; 1891).—On Holland Island; reported lost. *Holland Island 2* established in 1898.

Point Lookout (St. Marys County, E. Blunt, 1848; 1860).—On Point Lookout, at north side of Potomac River entrance. Reported lost in 1908.

Shanks Hammock (Accomac County, Va., E. Blunt, 1848).—In 1897 this station was not found, and *Shanks Hammock 2* was established.

UPPER CHESAPEAKE BAY

Pooles Island 2 (Harford County, D. B. Wainwright, 1896; 1918).—On Pooles Island in the northern part of Chesapeake Bay, about 1/4 mile southeast of Pooles Island Lighthouse, on the highest ground on the island, in a peach orchard, 32.7 meters (107 feet) east of a division fence and north of a line connecting the lighthouse and the farmhouse on the southeast side of the island. At the southwest corner of the farmhouse, which is 340.7 meters (1,118 feet) from the station, the angle between windmill (at barn) and the station is 84°. The angle at the station, between the lighthouse and the fog bell tower, is 2° 47′. The station lies between the two red sectors of the light and much nearer the southern sector. The underground mark is a 2-inch tile pipe with its top 22 inches below the surface of the ground. The surface mark is the center of a triangle on the standard cement monument of the Maryland Shell Fish Survey, note 16. The center one of four nails in an apple tree is 33.72 meters (110.6 feet) from the station in azimuth 109° 08′. Other distances and azimuths are as follows: Near gable of barn, 1/4 mile, 10° 50′; windmill, 1/4 mile, 14° 40′; Pooles Island Light (center of tower), 451.7 meters (1,482 feet), 132° 44′; center of chimney of small house in rear of dwelling, 1/4 mile, 347° 44′; center of middle one of three chimneys on dwelling, 1/4 mile, 350° 47′; center of cupola on small building, 1/4 mile, 353° 34′.

Worton Point 2 (Kent County, J. Nelson, 1897; 1918).—On the eastern shore of Chesapeake Bay, on Worton Point, about 1⅓ miles north of Worton Creek, and close (in 1918) to the edge of a bluff 30 feet high. Marked by two 4-inch tile pipes, the top of the upper pipe being 6 inches below the surface of the

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ground, and the lower pipe being 2 inches below the upper pipe. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 14.05 meters (46.1 feet) from the station in azimuth 298° 43′. Other distances and azimuths are as follows: Nail in blaze in 2½-inch ash tree, 1.06 meters (3.48 feet), 151° 00′; nail in blaze in 3-inch ash tree, 4.24 meters (13.91 feet), 216° 46′; nail in blaze in 5-inch locust tree, 4.61 meters (15.12 feet), 13° 02′; Tower No. 8 of the Aberdeen Proving Grounds, 69.319 meters (227.42 feet), 302° 22′.

Lego Point 2 (Harford County, F. W. Perkins, 1897).—On Lego Point, a marshy point at south side of entrance to Bush River, 24 feet from shore line to northeast and 21 feet from shore line to south. Marked by two 4-inch drain tiles placed one above the other, and a nail in a stub at the surface of the ground, note 19.

Abbey Island 2 (Harford County, J. Nelson, 1897; 1898).—On point at northeast side of entrance to Bush River, on property of Dr. G. G. Fernandis, on a sand ridge at extreme end of point, surrounded by and underlain by marsh. Station is about 180 paces south of small clubhouse. Marked by a nail in top of a 4 by 4 inch stub, 5 feet long, driven into the marsh, leaving about 3 inches projecting. Four similar stakes with wire nails in top were driven in the ground approximately north, south, east, and west from the station and 6 feet therefrom. Remarked according to note 19, the top of the upper tile being about 8 inches below the surface of ground.

Plum Point 2 (Kent County, J. Nelson, 1897–98).—On eastern shore of Chesapeake Bay, on Plum Point, opposite mouth of Bush River. Searched for in 1918 without success.

Next (Harford County, F. W. Perkins, 1898).—On western side of Chesapeake Bay, 1 mile south of Romney Creek. Marked by two 4-inch tile pipes placed one above the other and a nail in a pine stub extending to the surface, note 19.

Harris (Kent County, F. W. Perkins, 1898).—On eastern side of Chesapeake Bay, just above entrance to Still Pond, 110 feet from edge of an 80-foot bluff, and 100 feet west of land which is 10 feet higher. Marked by two 4-inch tile pipes set one above the other, and a nail in a pine stub extending to the surface, note 19.

Taylor 2 (Harford County, F. W. Perkins, 1898).—On western side of Chesapeake Bay, on Taylors Island Point, at mouth of Romney Creek. Reported lost in 1918.

Woman (Harford County, F. W. Perkins, 1898).—On western side of Chesapeake Bay, on eastern side of Taylor Island, and 1¼ miles south-southwest from Old Womans Gut, on marsh overlaid with sand. Marked by two 4-inch tile pipes, placed one above the other, and nail in pine stub extending to the surface of the ground, note 19.

Howell Point 2 (Kent County, F. W. Perkins, 1898).—On Howell Point, southwest of mouth of Sassafras River. Reported lost in 1918.

Stephenson 2 (Harford County, F. W. Perkins, 1898).—On western shore of Chesapeake Bay, just above Old Womans Gut. Reported lost in 1918.

Cool 2 (Cecil County, F. W. Perkins, 1898; 1902).—On eastern shore of Chesapeake Bay, about 1 mile north of mouth of Sassafras River, on the edge of a bluff, surrounded by woods. The station is marked by a 4 by 4 inch box set with the top flush with the surface. In 1898 a 15-inch blazed white oak was 38.4 feet southeast of the station.

Bear 2 (Harford County, F. W. Perkins, 1898).—Near upper end of Chesapeake Bay, on southern end of Spesutie Island. Reported lost in 1918.

Wroths Point 2 (Cecil County, F. W. Perkins, 1898; 1902).—On south side of mouth of Elk River, southeast of Turkey Point, 18 feet back from edge of bluff 40 feet high. There is a strip of grass land about 30 feet wide along the top of the bluff, back of which is cultivated land. A row of small cedars passes close behind the station. Marked by two 4-inch tile pipes, the top of the upper pipe being 8 inches below surface of ground and by a pine stub with nail in top, note 19.

Sandy Point 2 (Harford County, F. W. Perkins, 1898; 1902).—In northern part of Chesapeake Bay, on eastern side of Spesutie Island, on Sandy Point, about ½ mile east by north from Mr. Smith's house, on thick layer of sand covering marsh, 50 feet back from high-water mark both to the east and south. Chimney of a negro house is about 240 meters distant in azimuth 152° 17′.

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Marked by two 4-inch tile pipes placed one above the other, and a nail in a stub extending to the surface of the ground, note 19.

Rock (Cecil County, F. W. Perkins, 1898; 1899).—On eastern side of Chesapeake Bay, about 2⅓ miles above Turkey Point, on a very high bluff, in thick timber in a small space cleared out for it on edge of bluff. Marked by two 6-inch tile pipes placed one above the other, the top of the upper pipe being 6 inches below surface of ground. The surface mark is a 4-inch stub with top flush with surface of ground, note 19.

Locust 2 (Harford County, F. W. Perkins, 1898).—On Locust Point, the northeast point of Spesutie Island. In 1918 this station could not be recovered.

Swan (Harford County, F. W. Perkins, 1898).—On the western side of the upper part of Chesapeake Bay, on top of and 7 feet back from edge of the high bluff at south side of entrance to Swan Creek. Marked by two 6-inch tile pipes placed one above the other, the top of the upper tile being 6 inches below the surface of ground. The surface mark is a 4-inch pine stub with top flush with ground, note 19.

Davis 2 (Harford County, F. W. Perkins, 1898).—On western side of upper part of Chesapeake Bay, about 2 miles below Havre de Grace, 15 feet back from high-water line and 8 feet south of south line of old wharf. Marked by two 6-inch tile pipes set one above the other, the top of the upper tile being 6 inches below the surface of ground. The surface mark is a 4-inch pine stub with top flush with surface of ground, note 19.

Havre de Grace 2 (Harford County, F. W. Perkins, 1898).—In the town of Havre de Grace, close to the Havre de Grace Light, the near face of the light structure being distant 54.2 feet, the azimuth of the center of the light being 214° 28′. A fence corner is 19 feet northwest. Marked by two 6-inch tile pipes, set one above the other, the top of the upper pipe being 6 inches below surface of ground. The surface mark is a 4-inch pine stub, with top flush with surface, note 19.

Bull (Cecil County, F. W. Perkins, 1898).—On eastern side of northern part of Chesapeake Bay, near the foot of Bull Mountain and on top of bluff. Marked by two 6-inch tile pipes, set one above the other, the top of the upper pipe being 6 inches below surface of ground. The surface mark is a 4-inch pine stub, its top even with the ground, note 19.

Red Bank 2 (Cecil County, F. W. Perkins, 1898).—On eastern side of upper Chesapeake Bay, on Red Point, at east side of entrance to Northeast River. It is some distance from the point on the bay side and is on top of bluff among trees and bushes, which fringe the top of the bluff. Marked by two 6-inch tile pipes, set one above the other, the top of the upper tile being 6 inches below surface of ground. The surface mark is a 4-inch pine stub, with top flush with ground, note 19.

Carpenters Point 2 (Cecil County, F. W. Perkins, 1898).—At the head of Chesapeake Bay, on Carpenters Point, at west side of entrance to Northeast River, 165 feet from edge of bluff. Marked by two 6-inch tile pipes, set one above the other, the top of the upper pipe being 6 inches below surface of ground. The surface mark is a 4-inch pine stub, with top flush with surface of ground, note 19. The azimuth from the station to the west cupola of a barn near is 232° 59′; to the east cupola of the barn is 234° 03′.

Lower (Cecil County, F. W. Perkins, 1898).—At the head of Chesapeake Bay, in a wheat field near the end of Lower Stump Point. Marked by two 6-inch tile pipes, set one above the other, the top of the upper pipe being 6 inches below surface of ground. The surface mark is a 4-inch pine stub, with its top even with the ground, note 19.

Hance Point 2 (Cecil County, F. W. Perkins, 1898).—On Hance Point Northeast River, in a cultivated field, some distance from shore line and 8.7 feet from fence. Marked by two 6-inch tile pipes, set one above the other, the top of the upper pipe being 6 inches below surface of ground. The surface mark is a 4-inch pine stub, with top flush with ground, note 19.

Coulter (Cecil County, F. W. Perkins, 1898).—On Coulters Point, Northeast River, at high-water line. Marked by two 6-inch tile pipes, set one above the other, the top of the upper pipe being 6 inches below surface of ground. The surface mark is a 4-inch pine stub, with top even with ground, note 19.

Stoops Point, Tower No. 9 (Kent County, E. D. Bromley, 1918).—On eastern shore of Chesapeake Bay, about 1 mile south of entrance to Worton Creek and ½ mile north of entrance to Fairlee Creek, in an open field, 75 meters back from edge of a bluff about 12 meters above high water, and about 250 meters

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south of edge of bank to northeast. The underground mark is a nail set in concrete, as described in note 7a. The station mark is a bronze tablet in a concrete post, as described in note 1a. The reference mark is a bronze tablet set in concrete, as described in note 11a. It is 33.142 meters (108.73 feet) from station in azimuth 287° 26′.8. South chimney of red brick farmhouse, 600 meters distant, is in azimuth from station, 321° 08′.5. Over the station was erected a 40-foot observation tower.

Spry Island 1918 (Harford County, E. D. Bromley, 1918).—On western side of Chesapeake Bay, on southwest end of Spry Island, 40 meters south of a ducking shanty and 3½ meters from high-water mark. Marked by a stub 4 feet long, driven in the sand and marsh.

Worton Point, Tower No. 8 (Kent County, E. D. Bromley, 1918).—On the eastern shore of Chesapeake Bay, ¼ mile above entrance to Worton Creek, on a bluff about 12 meters above high water and 70 meters back from edge of bluff. Station *Worton Point 2* is 69.319 meters (227.42 feet) from the station in azimuth 302° 21′.8. The reference station established for station *Worton Point 2* by the Maryland Shell Fish Survey is about 55 meters from the station. Over the station was erected an observing tower (No. 8), used by the Aberdeen Proving Grounds for range work.

Lego Point (Harford County, E. D. Bromley, 1918).—On the western shore of Chesapeake Bay, on point at south of entrance to Bush River, at extreme end of point, 1 meter from water's edge. Station marked by stub about 4 feet long driven into the ground. Reference mark is a triangle cut around an iron bolt on the northeast corner of a concrete duck blind; it is 73.328 meters (240.58 feet) from station in azimuth 290° 59′.3. Triangle of nails on a ducking shanty is distant about 50 meters, in azimuth 104° 26′. Middle chimney on white house on opposite side of Bush River is in azimuth 197° 24′.

Plum Point, Tower No. 7 (Kent County, E. D. Bromley, 1918).—On eastern shore of Chesapeake Bay, on point at southern side of Still Pond, in orchard of Mr. Willis, 20 meters back from edge of bluff, and 10 meters above high water. The station is marked by a concrete monument with a 2-inch pipe in the center. The point determined is at the northeast corner of the monument, 0.149 meters (0.49 feet) from pipe at center of monument in azimuth 234° 06′.0. Reference mark, a concrete monument with spike in center, is 25.53 meters (83.8 feet) from the station in azimuth 333° 01′.6. Azimuth of south chimney of farmhouse is 303° 58′.

Meeks Point, Tower No. 6 (Kent County, E. D. Bromley, 1918).—On eastern shore of Chesapeake Bay, ½ mile north of entrance to Still Pond, in a peach orchard on farm of Mr. Crew, 100 meters back from edge of bank, and 45 meters above high water. Station marked underground by glass bottle set in concrete slab 4½ feet below surface of ground. Surface mark is standard disk station mark in concrete monument 2½ feet square, note 1a. Reference mark is a bronze tablet in a concrete post, note 11a. It is 17.115 meters (56.15 feet) from station in azimuth 262° 49′.4. Azimuth of windmill on barn distant ½ mile, is 359° 16′. Forty-foot observation tower erected over station.

"L" Tower (old) (Harford County, E. D. Bromley, 1918).—On western shore of Chesapeake Bay, on west side of entrance to Romney Creek, opposite Taylors Island on top of a house. Pole marking station was in southeast end of railing around observing tower built on house.

"L" Tower (new) (Harford County, E. D. Bromley, 1918).—On the western shore of Chesapeake Bay, ½ mile south of Romney Creek and about 1 mile southwest of Taylors Island Point. Station is 35 meters back from shore line of rounding point in clearing among trees. The underground mark is a nail in a block of concrete as described in note 7c. The station mark is a bronze tablet set in a concrete post described in note 1a. The reference mark is a bronze tablet set in a concrete post as described in note 11a. It is at the edge of the wood line and is 14.00 meters (45.9 feet) from the station in azimuth 116° 47′.6.

Howell Point (Kent County, J. A. Daniels, 1918).—On eastern side of Chesapeake Bay, southwest of entrance to Sassafras River, on southwest side of sand spit off Howell Point bluff, about 1 meter above high water and 12 meters from water's edge. The underground mark is a nail in concrete as described in note 7c. The surface station mark is a bronze tablet set in a concrete post as described in note 1a. The reference mark is a bronze tablet set in a con-

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crete post as described in note 11a. It is on ground about 1 meter higher than the station itself and near a clump of bushes and small cedar trees, and 56.070 meters (183.96 feet) from the station in azimuth 342° 21′.2.

"H" Tower (Harford County, J. A. Daniels, 1918).—On western side of Chesapeake Bay, on roof of house at Stony Point. Station marked by base of signal pole in southeastern corner of railing around observing tower.

Black Point Tower (old) (Harford County, E. D. Bromley, 1918).—On western shore of Chesapeake Bay, about 375 meters south of extreme north end of Black Island Point, 175 meters south of house and 10 meters back from high-water line. Marked by a standard disk station mark in a concrete monument 14 inches square and 4 feet long, note 1a. Forty-foot observation tower erected over station.

Howell Point Tower No. 5 (Kent County, E. D. Bromley, 1918).—On eastern shore of Chesapeake Bay, southwest of entrance to Sassafras River, about 100 meters south of road coming up bluff and 359 meters from triangulation station on sand spit on Howell Point bluff, 25 meters above high water, 12 meters from edge of bluff. Station is in an orchard and an observation tower was erected over it. The underground mark is a nail in concrete as described in note 7c. The surface station mark is a bronze tablet set in a concrete post as described in note 1a. The reference mark is a bronze tablet set in a concrete post as described in note 11a. It is 21.94 meters (72.0 feet) from station in azimuth 254° 49′.3. Photographic house is 14.94 meters (49.0 feet) from station in azimuth 215° 30′.

Grove Point (Cecil County, E. D. Bromley, 1918).—On the eastern shore of Chesapeake Bay, about ½ mile north of entrance to Sassafras River, about 250 meters north of wharf, and 1 meter back from edge of a washing bank. Station was close to a large elm tree, and two small locust trees near by were used to nail signal braces to. Marked only by a stub.

Black Point (new) (Harford County, E. D. Bromley, 1918).—On western shore of Chesapeake Bay, on extreme end of Black Island Point, 6 meters from high water, 3½ meters from end of bridge used to go from Converse House to Black Point Tower (old). Station marked by a standard disk station mark in a 14-inch square monument 4 feet long, note 1a.

"B" Tower No. 2 (Harford County, E. D. Bromley, 1918).—On the western shore of upper Chesapeake Bay, on the highest ground at Mulberry Point, and about 150 meters from shore line. Marked by an 80-foot steel tower, with house on top, surmounted by a pole. Station is center of pole. Tower is known as the "Safety tower."

Tower No. 3 (A) (Harford County, E. D. Bromley, 1918).—In Chesapeake Bay, just south of Black Island Point and 1,400 yards offshore. Tower is of piling, and pole in roof of house marks point. Tower carries a light for navigation purposes.

Tower No. 4 (A) (Harford County, E. D. Bromley, 1918).—In Chesapeake Bay, off the entrance to Sassafras River, and about 3,000 yards north of Howell Point. Tower is built on piling, about 30 feet above water, and station is marked by pole in roof of house. Tower carries a light for navigation purposes.

Clubhouse Cupola (Harford County, F. W. Perkins, 1898; 1918).—In upper part of Chesapeake Bay, on northwestern part of Spesutie Island. Station is center of cupola on prominent red-roofed clubhouse.

Converse (Harford County, E. D. Bromley, 1918).—On western shore of Chesapeake Bay, at Mulberry Point, 50 meters north of the Stockade of main battery at the water range and same distance from water's edge. Marked by standard bronze disk station mark in a 14-inch square concrete monument 4 feet long, note 1a.

Rawlinsville (Lancaster County, Pa., L. H. Haupt, 1878; 1883).—In Providence Township, near the village of Rawlinsville, near the crest line of ridge on the farm of Adam Le Fevre (1879), and about ⅜ mile northeast of a brick tavern at Rawlinsville. The underground mark is a ¾-inch iron bolt in a hewn block of nearly white limestone buried 3 feet below the surface. Above this is a cut stone of talc slate, 6 inches square, planted so as to project 2 inches above ground and marked with diagonal lines on top. Distances and azimuths (magnetic) to near-by points are as follows: Fence line, 19 feet, 70°; fence corner, 48.4 feet, 136°; chestnut tree, 40.6 feet, 167°; tulip poplar, 43.2 feet, 200°; small apple tree, 24 feet, 283°; chestnut tree, 44.8 feet, 330°.

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Londonderry (Chester County, Pa., L. M. Haupt, 1878).—At Londonderry (known locally as Dalesville), just north of the point of junction of the Cochranville-Jennessville Road with the Jennessville-Gum Tree Road, and on the west side of the latter, in a field belonging to J. A. Criswell (1878). The station is marked by a red-clay flower pot buried 4 feet below the surface and a gallon stone pot with its top 3 feet below surface. Inside the stone pot is a bottle; all three are carefully centered. A tulip poplar is N. 26° E. 159 feet from the station and a cedar tree near the junction of the roads is S. 15° E. 83.9 feet from the station.

Lantern (Kent County, H. L. Marindin, 1898).—At the south side of mouth of Sassafras River, signal lantern hanging from scaffold on the outer end of the Betterton (steamboat) Wharf, close to the western corner of the store and freight house on end of wharf.

Grays Hill (Cecil County, W. C. Hodgkins, 1892).—In the eastern part of Cecil County, about 2 miles east by north from the town of Elkton, ½ mile west from Delaware State line, on summit of a very prominent hill, which though only about 250 feet high rises quite abruptly some 150 feet above surrounding plain. Station is nearly west of a house on eastern brow of hill, occupied in 1892 by a Mr. Wilson. Underground mark is an earthen crock; surface mark is a stone post marked "U. S. 1892."

ELK RIVER

Pearce 2 (Cecil County, J. B. Boutelle, 1898; 1902).—On the south side of mouth of Elk River, in cultivated field, about ⅛ mile south of Reybolds Wharf, and on crest of a hill. Marked by drain tile with 4-inch post driven in center.

Abb (Cecil County, J. B. Boutelle, 1898; 1902).—On northwest side of Elk River, on the extreme point of "Jacobs Nose," at high-water mark. Marked by a box 3 inches square and 3 feet deep filled with cement.

Cabin (Cecil County, J. B. Boutelle, 1898).—On southeast shore of Elk River, on Arnolds Bar, a sand point at the mouth of Cabin John Creek. Station later in year 1898 reported as destroyed.

Bat (Cecil County, J. B. Boutelle, 1898; 1902).—On the north side of Elk River, on the extreme end of Thackery Point, at high-water mark. Marked by a box 3 inches square set 3 feet in the ground, with 3-inch pole set therein.

Ford 2 (Cecil County, J. B. Boutelle, 1898; 1902).—On southeast side of Elk River, on point at southern side of mouth of Bohemia River, at high-water mark at Fords Landing. Marked by a box 3 inches square set 3 feet deep in ground. A 3-inch signal pole was set inside the box.

Grass (Cecil County, J. B. Boutelle, 1898).—On north side of Elk River, on point directly opposite mouth of Bohemia River, at high-water mark. Marked by a box 3 inches square and 3 feet deep, with 3-inch signal pole set therein.

Corn (Cecil County, J. B. Boutelle, 1898; 1902).—On west side of Elk River, about ⅔ mile above Bohemia River, in a cornfield on a high bank, on land occupied by a Mr. Futy. Marked by a 3 by 3 inch pole set in a box 3 feet deep.

Log (Cecil County, J. B. Boutelle, 1898; 1902).—On eastern shore of Elk River, on point of land 680 meters southwest from Town Point Wharf. Marked by a 2 by 4 inch scantling 2 feet long, driven into the ground.

Wilson (Cecil County, J. B. Boutelle, 1898).—On west side of Elk River, opposite Town Point. Could not be found in 1902.

Town Point 2 (Cecil County, J. B. Boutelle, 1898; 1902).—On east side of Elk River, on west side of Town Point Wharf, near the shore line, 126 feet from the northwest corner of the wharf, and 10 feet easterly from edge of wharf. Marked by a 3 by 3 inch pole set in a box 3 feet deep.

Piney (Cecil County, J. B. Boutelle, 1898; 1902).—On the north shore of Elk River, about 1 mile nearly north from Town Point Wharf, ½ mile east of Piney Creek, and 165 meters east of road. Marked by a stake, 2 by 4 inches and 2 feet long.

Elk (Cecil County, J. B. Boutelle, 1898).—On the south side of Elk River, just above high-water mark, 1,325 meters east by north from Town Point Wharf, and about 55 meters northeast from Elk River boarding house. Could not be found in 1902.

Field (Cecil County, J. B. Boutelle, 1898; 1902).—On north side of Elk River, 1 mile northeast from Town Point Wharf, on extreme end of Old Field Point. Marked by a stake 2 by 4 inches and 2 feet long.

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Court (Cecil County, J. B. Boutelle, 1898; 1905).—On east side of Elk River, just below mouth of Back Creek, about in center of old wharf at Court House Point. Marked by a box 3 by 3 inches, filled with cement, extending 3 feet into ground and 6 inches above surface of ground. Nail in top marks center.

Duck (Cecil County, J. B. Boutelle, 1898; 1902).—On west side of Elk River, nearly opposite mouth of Back Creek, on Bull Minnow Point, and just above high-water mark. Marked by a box 3 by 3 inches and 3 feet deep, filled with cement, a nail in top marking center.

Island (Cecil County, J. B. Boutelle, 1898; 1902).—In Elk River, on the northwest end of a small island about ⅓ mile south of the mouth of Back Creek, near the edge of a low bluff, and about 6 feet above high-water mark. Marked by a box 3 by 3 inches and 3 feet deep, filled with cement, a nail in top marking the center.

Creek (Cecil County, J. B. Boutelle, 1898; 1905).—Inside mouth of and at south side of Back Creek, at edge of cultivated field. Marked by a box 3 by 3 inches and 3 feet deep filled with cement, a nail in top marking the center.

Back (Cecil County, J. B. Boutelle, 1898; 1902).—At the north side of the mouth of Back Creek, east side of Elk River, at high-water mark, 2 meters outside of woods line. Marked by a box 3 by 3 inches and 3 feet deep, filled with cement, a nail in top marking the center.

Last (Cecil County, J. B. Boutelle, 1898; 1902).—On northwest end of point of land between Elk River and Back Creek. Reported destroyed in 1905.

High (Cecil County, J. B. Boutelle, 1898; 1902).—On eastern shore of Chesapeake Bay, on a bluff, about 2 miles northeast of mouth of Sassafras River and ½ mile southwest of mouth of Pond Creek. Marked only by pole set in ground.

Wharf House, Gable (Cecil County, J. B. Boutelle, 1898).—On east side of Elk River, near its mouth. Station is outer gable of freight shed on Reybolds Wharf.

Ese (Cecil County, J. B. Boutelle, 1898).—On southeast side of Elk River, on point about 950 meters northeast of Reybolds Wharf, at high-water line. In 1902 reported gone.

Ram (Cecil County, J. B. Boutelle, 1898; 1902).—On north side of Elk River, on small bluff on the end of "Timber Neck." Marked by box 3 inches square and 3 feet deep.

Johns (Cecil County, J. B. Boutelle, 1898; 1902).—On southeast side of Elk River, northeast of mouth of Cabin John Creek, at high-water mark. Marked by a box 3 inches square and 3 feet deep, with 3-inch signal pole set therein.

Chestnut, flag in tree (Cecil County, J. B. Boutelle, 1898).—Flag in a large chestnut tree on north side of mouth of Bohemia River, on Town Point. Tree is middle one of five growing in a semicircle from same roots, and having seats built around base.

BACK CREEK

Mud (Cecil County, J. B. Boutelle, 1898).—On north side of Back Creek, about ½ mile from Elk River, in soft marsh, marked by a box 3 by 3 inches and 3 feet deep filled with cement, a nail in top marking the center.

Rand (Cecil County, J. B. Boutelle, 1898).—On south side of Back Creek, about ⅔ mile from Elk River, on the sand close to shore end of Randall Wharf. Marked by a box 3 by 3 inches filled with cement, a nail in top marking the center.

Two (Cecil County, J. B. Boutelle, 1898).—On north side of Back Creek, on small point of land just above Randall Wharf. Marked by box 3 by 3 inches and 3 feet long filled with cement, with nail in top to mark center.

Bean (Cecil County, J. B. Boutelle, 1898).—On south side of Back Creek, about ½ mile east of Randall Wharf, near high-water mark on a small point of land. Marked by a box 3 by 3 inches and 3 feet deep, filled with cement, a nail in top marking center.

Hard (Cecil County, J. B. Boutelle, 1898; 1905).—On north side of Back Creek, ¾ mile east of Randall Wharf, on a firm bank about 6 feet high. Marked by cement block 3 inches square and 3 feet deep with nail in top.

Fence (Cecil County, J. B. Boutelle, 1898).—On the south side of Back Creek, about ¾ mile above Randall Wharf, and at high-water mark. Marked by a box 3 by 3 inches and 3 feet deep filled with cement, a nail in top marking center.

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Rot (Cecil County, J. B. Boutelle, 1898).—On south side of Back Creek, at high-water mark, on point of land about 1⅜ miles east of Randall Wharf. Marked by a box 3 by 3 inches and 3 feet deep filled with cement, a nail in top marking center.

No (Cecil County, J. B. Boutelle, 1898).—On south side of Back Creek, about 1 mile west of Chesapeake City, and on soft, shaky marsh, about 10 meters north of woods line. Marked by a box 3 by 3 inches and 3 feet deep filled with cement, a nail in top marking center.

City (Cecil County, J. B. Boutelle, 1898).—On south side of Back Creek, on a small bluff bank, ¾ mile west of Chesapeake City, and opposite mouth of small creek. Marked by a box 3 by 3 inches and 3 feet deep filled with cement, a nail in top marking center.

Lock (Cecil County, J. B. Boutelle, 1898).—On south side of canal lock at Chesapeake City, near its west end and about 4 meters east of a small red light tower. Marked by a box 3 by 3 inches and 3 feet deep filled with cement, a nail in top marking center.

BOHEMIA RIVER

Bo (Cecil County, J. B. Boutelle, 1898; 1902).—On point at north side of mouth of Bohemia River, at high-water mark. Marked by a box 3 by 3 inches and 3 feet deep. Box may have been filled with cement with nail in top to mark center, but this is uncertain.

Pete (Cecil County, J. B. Boutelle, 1898; 1902).—On the first prominent point just inside the mouth of Bohemia River, and about 1 mile east of Fords Landing, and at high-water mark. Marked by a box 3 by 3 inches and 3 feet deep filled with cement, a nail in top marking center.

Mia (Cecil County, J. B. Boutelle, 1898; 1899).—On south side of Bohemia River, on point about 1⅛ miles east of Fords Landing. Marked by a box 3 by 3 inches and 3 feet deep filled with cement, a nail in top marking the center.

He (Cecil County, J. B. Boutelle, 1898; 1899).—On north side of Bohemia River, at high-water mark, 400 meters east of a long wharf and ⅞ mile from mouth of river. Station marked by a box 3 by 3 inches and 3 feet deep filled with cement, a nail in top marking center.

SASSAFRAS RIVER

Grove Point 2 (Cecil County, F. W. Perkins, 1898).—In a cultivated field, 12 feet back from edge of bluff 40 feet high, and ½ mile east of Grove Point, the point at north side of mouth of Sassafras River. Marked by two 4-inch drain tiles set one above the other, the top of the upper pipe being about 8 inches below surface of ground, note 19. A pine stake with nail in top was driven inside the pipes.

Price (Kent County, F. W. Perkins, 1898; 1900).—On the south shore of Sassafras River, above the town of Betterton, on the low sand beach below a bluff covered with small cedars. Marked by two 6-inch drain tiles placed one above the other, the top of the upper tile being 6 inches below surface of ground. The surface mark is a 4-inch stub, its top even with surface of ground, note 19.

Katz (Cecil County, F. W. Perkins, 1898; 1900).—On the north shore of Sassafras River, on a fishing shore, and close to west end of a shed used for storing nets, etc. Marked by two 6-inch tile pipes placed one above the other, the top of the upper pipe being 6 inches below surface of ground. A 4-inch stake driven inside the pipes, has its top even with surface of ground.

Harper (Kent County, F. W. Perkins, 1898).—On south shore of Sassafras River, in a cornfield on the highest point of a bluff, 30 feet from edge of a bluff. Chimney of house near station is in azimuth therefrom 121° 47′. Station marked by two 6-inch drain tiles placed one above the other, the top of the upper pipe being 6 inches below surface of ground. The surface mark is a 4-inch pine stake, its top even with surface of ground, note 19.

Burley (Cecil County, F. W. Perkins, 1898).—On the north shore of Sassafras River, in an open field, 28 feet from edge of bluff, and 132 feet from edge of timber. Marked by two 6-inch tile pipes set one above the other, the top

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of the upper pipe being 6 inches below surface of ground. The surface mark is a 4-inch pine stake, its top even with surface of ground, note 19.

White (Kent County, H. L. Marindin, 1898; 1900).—On south side of Sassafras River, on a bluff about 20 feet above high water, close to fence running along bluff, and surrounded by trees the lower limbs of which were cut off. Marked by a signal pole in a box 3 by 3 inches and 3 feet deep.

Turner (Kent County, H. L. Marindin, 1898; 1900).—On south side of Sassafras River, opposite Ordinary Point, on brow of hill about 200 feet back from edge of river bluff. Marked by a signal pole set in box 3 by 3 inches and 3 feet deep.

Ordinary (Cecil County, H. L. Marindin, 1898; 1900).—On north side of Sassafras River, on Ordinary Point, at the edge of high-water mark, on gravel beach. Marked by signal pole set in box 3 by 3 inches and 3 feet deep.

Cassidys Wharf (Cecil County, H. L. Marindin, 1898; 1900).—On north side of Sassafras River, on Cassidys Wharf, near the inner northeast shore corner, and about 4 feet from east edge of wharf. Marked by signal pole in box 3 by 3 inches and 3 feet deep.

Shrewsbury Hill (Kent County, H. L. Marindin, 1898).—On the south side of Sassafras River, on the brow of the hill near fence and road. Marked by signal pole in box 3 by 3 inches and 3 feet deep.

End (Cecil County, H. L. Marindin, 1898).—On north side of Sassafras River, at end of Ordinary Point. Marked by signal pole set in box 3 by 3 inches by 3 feet deep.

Boathouse flagstaff (Kent County, H. L. Marindin, 1898).—A flag nailed to northwest gable of boathouse standing alone on south shore of Sassafras River. At high tide gable is over water.

Chim (Cecil County, H. L. Marindin, 1898).—On north side of Sassafras River, on Ordinary Point. Station is chimney on only dwelling house on point.

Freeman (Kent County, H. L. Marindin, 1898).—On south side of Sassafras River, on point at west side of entrance to Turner Creek. Marked by signal pole set in box 3 by 3 inches and 3 feet deep.

Bight (Cecil County, H. L. Marindin, 1898).—On north shore of Sassafras River, in bight to eastward of Ordinary Point. Marked by signal pole set in box 3 by 3 inches and 3 feet deep.

Witters Point (Kent County, H. L. Marindin, 1898).—On south side of Sassafras River, on extreme end of Witters Point, at high-water line. Marked by signal pole set in box 3 by 3 inches and 3 feet deep.

Robertson (Cecil County, H. L. Marindin, 1898).—On north side of Sassafras River, at west side of entrance to Back Creek, about 50 feet east and northeast of Robertson's house, about 30 feet east of corner of garden fence, and 6 feet from edge of bluff. Marked by box 3 by 3 inches and 3 feet deep.

Olaff (Kent County, H. L. Marindin, 1898).—On south side of Sassafras River, opposite the entrance to Back Creek, about 20 feet back from high-water line, and 30 to 35 feet east of corner of front yard of Olaff's house. Marked by box 3 by 3 inches and 3 feet deep.

Point (Kent County, H. L. Marindin, 1898; 1904).—Hydrographic signal consisting of pole and cross boards on end of sandy point between Lloyds Creek and Sassafras River.

Bee (Cecil County, H. L. Marindin, 1898).—On north side of Sassafras River. Signal was flag nailed to east gable of small fish house (used as sleeping house for fishermen), standing about 150 meters east of prominent lone dead tree.

Thatch (Cecil County, H. L. Marindin, 1898).—On north side of Sassafras River. Signal is flag nailed to east gable of more eastern of two thatched-roof shanties, standing a few feet back from high water, and about 20 feet apart. Shanties are used by fishermen in season.

Shed (Cecil County, H. L. Marindin, 1898).—On north side of Sassafras River, near west end of a bluff. Signal is flag nailed to northeastern gable of larger and northwestern of two fish houses.

Box (Cecil County, H. L. Marindin, 1898).—On north side of Sassafras River, near its mouth, about 40 feet back from high water. Signal is flag nailed on southwest corner of small roofless shanty.

Down (Kent County, H. L. Marindin, 1898).—Signal pole on sandy point projecting into Lloyds Creek from sand strip which separates creek from Sassafras River.

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Mid (Kent County, H. L. Marindin, 1898).—On sandy strip which separates Lloyds Creek from Sassafras River, near the western elbow end and on river side of strip at high-water line. Marked by signal pole.

Bluff (Kent County, H. L. Marindin, 1898).—On southern side of Sassafras River, on edge of high bluff. Marked only by signal pole.

GUNPOWDER RIVER

Spry Island 2 (Baltimore County, F. W. Perkins, 1898).—On western side of Chesapeake Bay, off the mouth of Gunpowder River, on Spry Island, a soft marshy island, 75 feet from shore line to west and 90 feet from shore line to south. Marked by two 4-inch tile pipes placed one above the other and a nail in a pine stub extending to the surface, note 19.

Rickett Point 2 (Harford County, F. W. Perkins, 1898).—On Rickett Point, at east side of false entrance to Gunpowder River, 33 feet from shore to south. The station is in soft marsh, overlaid at point where signal stands with sand. Station marked by two 4-inch tile pipes, set one above the other, and a nail in a stake extending to the surface of the ground, note 19.

Carroll Point (Baltimore County, F. W. Perkins, 1898).—On western side of Gunpowder River, 1 mile above Spry Island, on Carroll Point, 120 feet from end of point, 75 feet from shore to north, and 40 feet from shore to southeast. Marked by two 4-inch drain tiles placed one above the other, and a nail in a pine stub extending to the surface of the ground, note 19.

Days Point (Harford County, F. W. Perkins, 1898).—On eastern side of Gunpowder River, on Days Point, a marshy point, 24 feet from shore to south, and 125 feet from end of point to west. Marked by two 4-inch drain tiles placed one above the other and a nail in a pine stub extending to the surface of the ground, note 19.

Graces Point (Baltimore County, F. W. Perkins, 1898).—On west side of Gunpowder River, on Battery Point, on soft marsh, 125 yards northwest from the point where the blind (or battery) is, and about 400 yards southeast of the clump of trees and shanties. Station marked by two 4-inch tile pipes set one above the other and a nail in a pine stub extending to the surface of the ground, note 19.

Maxwells Point 2 (Harford County, F. W. Perkins, 1898).—On east side of Gunpowder River, on Maxwells Point, on ground about 10 feet above the water and protected along the shore by a wall and loose blocks of stone. Station is 30 feet from wall at point, 30 feet from wall to northwest, and 20 feet from wall to southwest. Marked by two 4-inch tile pipes set one above the other and a nail in a stake extending to the surface of the ground, note 19.

Graces Quarter 2 (Baltimore County, F. W. Perkins, 1898).—On west side of Gunpowder River, about 1/6 mile southeast by east from clubhouse at Graces Quarter, 20 feet from edge of 35-foot bluff, and 7 feet outside of fence. Marked by two 4-inch drain tiles set one above the other and a nail in a pine stub extending to the surface of the ground, note 19.

Oliver (Baltimore County, F. W. Perkins, 1898).—On west side of Gunpowder River, 1 mile below railroad bridge, on Olivers Point, 10 feet west of 6-foot bank, 90 feet from shore line to north, and about E. 3/4 S. from Petry's house. Marked by two 4-inch drain tiles set one above the other and a nail in a stake extending to the surface of the ground, note 19.

Cadwalader (Harford County, F. W. Perkins, 1898).—On east side of Gunpowder River, 2 miles below railroad bridge, on property of a Mr. Cadwalader. Station 28 feet back from 15-foot bluff, while about 100 yards back from station the ground rises 8 feet. A locust tree, 27 inches in diameter, is on the edge of the bank, distant 70.8 feet, N. 45° W. (mag.), and Remboldt's house bears about north by west. Station marked by two 4-inch drain tiles set one above the other and a nail in a pine stub extending to the surface of the ground, note 19.

Piney Point 2 (Harford County, F. W. Perkins, 1898).—On north side of Gunpowder River, 1/2 mile east of railroad bridge, and 17.5 feet from a chestnut tree 3 feet in diameter which stands close to the edge of a 10-foot bluff. The chimney of Litchfield's house is about 142.5 feet distant, on bearing N. 3/4 E. Station marked by two 4-inch drain tiles set one above the other and a nail in a stake extending to the surface of the ground, note 19.

Taylor (Baltimore County, F. W. Perkins, 1898).—On the western side and near head of Gunpowder River, on a hill about 20 feet high, formerly called

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Taylors Mount. Station is 6 feet northwest of a fence, and 25 paces southwest of a farm road where it passes the head of deep ravine. Marked by two 4-inch drain tiles set one above the other and a nail in a stake extending to the surface of the ground, note 19.

CHESAPEAKE BAY, POOLE ISLAND TO SOUTH END OF KENT ISLAND

Horseshoe 2 (Anne Arundel County, F. W. Perkins, 1898; 1906).—About ¼ mile south of the eastern edge of Horseshoe Point, on a low, marshy point which is nearly awash at high tide. It is about 300 yards east of yellow house which is surrounded by cedars and has three lightning rods. Station marked by two 6-inch drain tiles placed one above the other and a nail in top of a 4-inch pine stub flush with the ground, note 19. The reference mark is the center of a standard cement monument of the Maryland Shell Fish Survey, note 16, 11.24 meters (36.9 feet) from the station in azimuth 106° 47′. Other distances and azimuths are as follows: South chimney on white house, ½ mile, 51° 14′; chimney on yellow house (see above), 300 yards, 72° 09′; chimney on small house, 300 yards, 139° 21′; west chimney of house, 350 yards, 147° 10′.

Price 2 (Queen Annes County, F. W. Perkins, 1898).—On the western shore of Kent Island, about 4½ miles from south end of island in an orchard which is also used as a pasture, 15.5 feet from the shore, and 13.6 feet north of a fence. Marked by two 6-inch drain tiles placed one above the other, the top of the upper tile being 6 inches below the surface of the ground. The surface mark is 4-inch pine stub with top flush with ground, note 19.

Broad (Queen Annes County, F. W. Perkins, 1898).—On the east shore of Chesapeake Bay, on the west shore of Kent Island, about 5½ miles southerly from the northerly end of the island, south of Broad Creek, 11 feet from edge of bluff and 11 feet north of a small gully. Marked by two 6-inch drain tiles placed one above the other, the top of the upper tile being 6 inches below the surface of the ground, and a stub extending to the surface, note 19.

Ring (Queen Annes County, F. W. Perkins, 1898; 1906).—On the west shore of Kent Island, about 2 miles south-southwest of Love Point, about 3 miles east of Sandy Point Light, about 20 feet above and 35 feet back of high water, in a cultivated field, on top of bank, and about 6 feet back from the edge. The station is the center of a 4-inch tile pipe with its top 3 inches below the surface. The reference mark is the center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 9.36 meters (30.71 feet) from the station in azimuth 259° 21′. Distances and azimuths to other points of reference are as follows: Cupola on barn, 1 mile, 212° 55′; south chimney of house, ¼ mile, 236° 04′; lone (2-inch) tree, 300 yards, 319° 14′; south chimney of house, 300 yards, 334° 00′.

Lacey (Queen Annes County, F. W. Perkins, 1898).—On the northern end of Kent Island in a pasture belonging to Thomas De Lacey. From the station the azimuth to De Lacey's barn gable is 313° 10′, and to his house chimney, 348° 53′. Station marked by two 6-inch tile pipes placed one above the other, the top of the upper tile being 6 inches below the surface of the ground. The surface mark is a 4 by 4 inch pine stub with top flush with the ground, note 19.

White (Queen Annes County, F. W. Perkins, 1898).—On the northwest part of Kent Island in a wheat field owned by Bernard White. The station is marked by two 6-inch drain tiles placed one above the other; the upper end of the top one being 6 inches below the surface. The surface mark is a 4 by 4 inch stub flush with the surface of the ground. The azimuth from the station to the north chimney of De Lacy's house is 216° 23′; to the northwest chimney of White's house is 283° 48′.

Magothy (Anne Arundel County, D. B. Wainwright, 1896; 1898).—On the west shore of the Chesapeake Bay, about 1¾ miles northwest from Sandy Point Light and 1¾ miles from the mouth of Magothy River, in a peach orchard, about 24 feet back from the edge of the bluff which faces the bay. It is 13.58 feet from peach tree to east; 14.33 feet from peach tree to southeast; 13.5 feet from peach tree to southwest; and 500 feet from line of woods to the west. Marked by a nail in top of a 3 by 4 inch pine stub.

Peach Hill (Anne Arundel County, D. B. Wainwright, 1896; 1908).—On the summit of a prominent hill on Gibson Island, about ¼ mile back from shore of Chesapeake Bay and 1¼ miles north of the entrance to Magothy River; the hill

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is the second one south of the sand beach connecting Gibson Island with the mainland. Station marked by crosslines on top of a granite monument projecting 4 inches above the surface of the ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. It is 10.75 meters (35.3 feet) from the station in azimuth 305° 04′. Other distances and azimuths are as follows: Chimney of house (near Welch) ¾ mile, 42° 16′; cupola on barn, ¼ mile, 138° 07′; right tangent of dwelling, ¼ mile, 175° 37′; nail in 5-inch stump, 4.13 meters (13.55 feet), 218° 37′.

North Point Lower Lighthouse (old tower) (Baltimore County, J. Ferguson, 1842; 1907).—On the north side of entrance to Patapsco River, about 150 yards offshore from North Point. Station is center of lantern of old stone tower formerly used as a lighthouse. The station was referred to and marked by a 1-inch drill hole in the stone floor of the lighthouse.

Bodkin Lighthouse (Anne Arundel County, J. Ferguson, 1842; 1907).—On southern side of entrance to Patapsco River and south side of mouth of Bodkin Creek, on Bodkin Point. The station is at the center of the top of the old tower for many years used as a lighthouse. The station was marked by a drill hole 1¼ inches in diameter in the center of the stone floor.

Swan Point 3 (Kent County, D. B. Wainwright, 1896; 1909).—On the eastern shore of Chesapeake Bay, on Swan Point, opposite the mouth of the Patapsco River. Station is on sand and marsh point, about 2 feet above high water, 5 feet east of shore, 60 yards south-southwest of a fisherman's cabin, and 250 yards from the entreme end of Swan Point. Station marked by center of neck of half pint glass flask placed about 4 feet underground. The lower end of a ¼-inch brass rod was inserted in the mouth of the flask and top centered and the whole surrounded by a concrete post the upper 2 feet of which was shaped in the form of a square with 8-inch sides. The rod projects 3 inches above the concrete which is 5 inches below surface of ground. One reference mark is a concrete post 3 feet long and 8 inches square projecting 9 inches above the surface of the ground. In its top are two ¼-inch copper rods 13 millimeters apart. This mark is in the marsh and is 21.43 meters (70.3 feet) from the station in azimuth 269° 13′. A second reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is in line to the first reference mark and 13.26 meters (43.5 feet) from the station. Distances and azimuths from the station to other points of reference are as follows: Chimney of cabin, 58 yards, 206° 05′; gable of Rock Hall Wharf house, 1 mile, 266° 18′; chimney of house to right of Windmill Point, 2 miles, 294° 23′; gable of barn, 2½ miles, 306° 00′. Reported lost.

Love Point (Queen Annes County, J. A. Flemer, 1896).—On Love Point at southwest side of entrance to Chester River, 6.9 feet west of a fence which runs north and south, 15.6 feet south of top of bank, and 23.3 feet southwest of triangle cut in the southwest side of small locust tree on the edge of the bluff. The bearing (mag.) of the first cedar tree near fence line, to the south of the station, is 159° 30′ (from north). Station probably marked by two 4-inch tile pipes each 25 inches in length, set in the ground, one above the other, flange end down, the top of the upper pipe being 6 inches below surface of ground. They were filled with and encased in cement. The top of the upper pipe is encased in a block of concrete and on the upper surface of this block are the letters "U. S. C. S." and date "1896," and a nail surrounded by a triangle to mark the center.

Dutchman 2 (Anne Arundel County, F. W. Perkins, 1898; 1906).—On the north side of the entrance to West River, on Dutchman Point, between shore of Bay and Rhode River. Station is 10 feet back from edge of bank 12 feet high. A small lone locust tree stands about 11 yards northwest of the station. Station mark is center of two 4-inch tile pipes placed one above the other, with top of upper pipe 6 inches below surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 10.61 meters (34.8 feet) from station in azimuth 160° 13′. Distances and azimuths from the station to other points of reference are as follows: Chimney on small white house, ½ mile, 55° 40′; cupola on large building, 1 mile, 107° 45′; nail in blaze in 2-inch locust tree, 10.25 meters (33.6 feet), 125° 26′; chimney on red-roof house, ¼ mile, 154° 45′; peak of wharf house at Nowell Pier, 1 mile, 351° 57′.

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Van (Queen Annes County, F. W. Perkins, 1898).—On the western shore of Kent Island, opposite entrance to Severn River. Marked by two 6-inch tile pipes placed one above the other, the top of the upper pipe being about 6 inches below the surface of the ground. The surface mark is a 4-inch pine stub with top even with surface, note 19.

Huntingfield Bank (Kent County, J A. Flemer, 1896).—On the eastern shore of Chesapeake Bay, on the peninsula south of the entrance to Rock Hall Harbor and west of Huntingfield Creek. Station is 14 feet east of edge of highest point of Huntingfield Bank. It is marked by a nail in a cement-filled tile pipe. The top of the pipe, 6 inches below the surface, is surrounded by a block of concrete bearing the legend "U. S. C. S.—1896," note 22. From the station the magnetic bearing of the tall smokestack of Leary's sawmill on the west shore of Grays Inn Creek is S. 78° 23′ E.; the magnetic bearing of line to a lone cherry tree abreast of and west of a peach orchard is S. 31° 36′ E.; magnetic bearing of line tangent to edge of woodland just south of station in bottom, near shore, is S. 23° 30′ E.; and magnetic bearing of west chimney of old colonial brick house, N. 48° 28′ E.

Beach Point (Kent County, J. A. Flemer, 1896).—On the western shore of East Neck Island on a beach known as "Wicks Beach," 7 paces N. 27° 30′ W. (mag.) from the northeast end of the grave of an unknown sailor whose body was washed ashore at this point. The station is almost south (mag.) of fringe of trees on west shore skirting low bank at fence above which is open field. The station is marked by a nail in a 3-inch cement filled tile pipe; the top is 6 inches below surface and surrounded by cement bearing the legend "U. S. C. S. 1896," note 22. The magnetic bearing of tangent to southerly edge of woods just above Cabin Cove is S. 73° 45′ E.

Love Point 2 (Queen Annes County, F. W. Perkins, 1898).—On the extreme northern point of Kent Island, just east of a fence on top of bluff, in a field and near the edge of the bluff.

Persimmon 2 (Anne Arundel County, J. B. Boutelle, 1898).—On the south side of the mouth of the Magothy River, on the brow of the hill, in the edge of a peach orchard belonging to a Mr. Stinchcomb. Station marked by two sections of 4-inch drain pipe, placed one above the other and filled with cement, a nail in the cement marking the center. By reference to this station the old station of 1845, known as *Persimmon Point* was recovered further back in the peach orchard. The station mark recovered was a stone cone, about 3 feet deep, its top broken in pieces, but its lower portion intact. This was filled with small stones and above it was placed a piece of 4 by 4 inch scantling reaching 4 inches above the surface of the ground. The following observations were taken at this old station: Welch triangulation station 00° 00′; *Persimmon 2*, 19° 00′; small peach tree with triangular blaze, 22.6 feet, 66°; small peach tree with triangular blaze, 19.8 feet, 122°; small peach tree with triangular blaze, 5.3 feet, 200°; cedar tree with flag and triangular blaze, 88.7 feet 293°.

Mitchells Bluff 2 (Kent County, D. B. Wainwright, 1896; 1909).—On eastern shore of Chesapeake Bay, on Mitchells Bluff, just north of first break in bluff, about ⅝ mile north-northeast of Tolchester Beach Wharf, in cultivated ground, about 30 feet above high water, 13 yards southeast of edge of bluff, 50 yards northeast of point of gully where fishermen haul up gear, 70 yards south of small clump of trees, and ¼ mile northwest of large farmhouse. Station marked underground by wire in center of 2-inch tile pipe buried with top 2 inches below bottom of surface monument. Surface mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Chimney on middle of roof of building beyond trees, ⅝ mile, 262° 18′; spindle of weather vane on middle cupola of barn, ¼ mile, 292° 36′; near corner of large west chimney of house, ¼ mile, 303° 02′; west peak of barn, ⅜ mile, 352° 15′.

Millers Island 2 (Baltimore County, D. B. Wainwright, 1896; 1898).—On west side of Chesapeake Bay, near northeast end of Millers Island, on a small strip of sand and rock shore, near the remains of an old windlass used by fishermen, and about 115 meters southward from a fisherman's shanty. Marked by a copperplated steel rod in the center of a concrete post 3½ feet long, projecting about 5 inches above surface of ground.

Rock Point (1906) (Anne Arundel County, C. C. Yates, 1906; 1916).—On southern side of Patapsco River, on Rock Point, at eastern side of mouth of Rock Creek, near extreme end of point, about 70 yards from small tower (reported in 1916 to be torn down), and 12 yards from sea wall. Marked by center

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of standard cement monument of Maryland Shell Fish Survey, note 16. In 1916 a standard bronze disk reference mark was set in the concrete sea wall, directly opposite the station; it is 10.6 meters (34.8 feet) from the station in azimuth 221° 07′.5. The azimuth of the tower referred to above is 115° 43′.

Bramble (Kent County, J. Nelson, 1897; 1918).—On eastern shore of Chesapeake Bay, on the Fairlee farm, about 3 miles north-northeast of Tolchester Beach, 3 miles southeast of Pooles Island, and 1¼ miles southwest of entrance to Fairlee Cheek. Station is on a tree and bush-fringed bluff, about 30 feet above high water, 1 yard east of edge of bluff, 3 yards west of edge of cultivated field, 35 yards southwest of trees at edge of gully, and 200 yards west of other trees. It is about 211 meters nearly north of tower No. 10. Marked by a cedar stub standing 1 meter from edge of bank in 1918. Below the base of the stub was buried a bottle. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 47.16 meters (154.7 feet) from station in azimuth 247° 05′. Distances and azimuths from the station of other points of reference are as follows: Left tree on Pooles Island, 3 miles 116° 37′; windmill on middle of long building on Pooles Island, 2⅞ miles, 132° 44′; north peak of house with several gables on Pooles Island, 2⅞ miles, 134° 05′; cupola on barn, 1 mile, 338° 09′.

Wash (Queen Annes County, C. C. Yates, 1906).—On the eastern shore of Chesapeake Bay, on the west side of Kent Island, about ½ mile south of the entrance to Broad Creek, in a cultivated field, about 30 feet back from the edge of a 15-foot bluff and about 15 feet south of a small gully making in from the bay. Station is marked by nail in stub flush with the ground. The reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 12.90 meters (42.3 feet) from station in azimuth 299° 53′. Other distances and azimuths are as follows: East chimney on white house, ½ mile, 18° 20′; west chimney of house, ½ mile, 260° 06′; east chimney of white house, 400 yards, 293° 20′; cupola on barn, 400 yards, 307° 51′; lone tree (2½ feet diameter), 150 yards, 339° 14′; 15-inch tree, 175 yards, 352° 16′.

Craney (Queen Annes County, C. C. Yates, 1906).—On the eastern shore of Chesapeake Bay, on the west side of Kent Island, about ½ mile north of Craney Creek, in a low, sandy, cultivated field, about 3 feet above and 30 feet back of high-water mark. Station marked by a nail in a wooden stub projecting 3 inches above the ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 4.88 meters (16.01 feet from station in azimuth 265° 36′. The cupola on a barn is distant about ¼ mile in azimuth 314° 56′.

Bay Side (Anne Arundel County, C. C. Yates, 1906).—On the west shore of Chesapeake Bay, on Sandy Point, about ½ mile west-southwest of Sandy Point Light and about ¼ mile southeast of Bay Side farm dwellings. Station is on low sandy point, about 2 feet above and 75 yards back from high-water mark, and 14 paces east of road to Bay Side house. A number of small locusts stand in the immediate vicinity. Marked by center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to near-by objects were as follows: Nail in 8-inch locust tree, 19.69 meters (64.6 feet), 12° 58′; nail in 6-inch locust tree, 17.02 meters (55.8 feet), 57° 59′; west chimney Bay Side farmhouse, 350 yards, 130° 09′; west cupola of Bay Side barn, 400 yards, 133° 58′; west peak of small house (red roof), 300 yards, 159° 53′.

Clump (Anne Arundel County, C. C. Yates, 1906).—On the west shore of Chesapeake Bay, about one-third the way from Hackett Point to Sandy Point, on the narrow neck of land east of Goose Pond, just east of a group of pine trees and 3 feet above and 15 feet back from high-water mark. Center marked by nail in stub set flush with ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 6.42 meters (21.06 feet) from station in azimuth 85° 49′. Other distances and azimuths are as follows: Nail in blaze on 10-inch pine tree, 8.00 meters (26.25 feet), 53° 45′; nail in blaze on 10-inch pine tree, 8.68 meters (28.48 feet), 115° 04′; west chimney of white house, 1 mile, 180° 56′.

Cottage (Anne Arundel County, C. C. Yates, 1906).—On the west shore of Chesapeake Bay, near group of cottages called "Arundel on the Bay," about 2 miles northwest of Thomas Point Light. Station is 12 feet back from edge of an 18-foot bank, about 25 yards north of steamboat wharf, and 3 yards east of east edge of board walk 36 paces southeast of Concord Cottage. Center marked by nail in stub set flush with ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 13.70

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meters (44.9 feet) from station in azimuth 73° 45′. Other distances and azimuths are as follows: Flagpole on pavilion, 19° 58′; nail in blaze on 12-inch oak tree, 15.50 meters (50.9 feet), 73° 55′; peak of circular red roof of bathhouse in water, 300 yards, 169° 49′; stack at Bay Ridge, 1¼ miles, 194° 52′; north flagpole on wharf, 75 yards, 264° 25′; green ball on north end of playhouse, 80 yards, 345° 43′.

Locust (Anne Arundel County, C. C. Yates, 1907).—On the west shore of Chesapeake Bay, midway between Bodkin Point tower and the mouth of Magothy River. Counting down the bay from Bodkin tower, the station is located on the fifth bluff and near the center of it. Station is on top of bluff 20 feet high, 25 feet back from edge of bluff, and just outside large orchard. Center marked by nail in wooden stub set flush with ground. Reference point is center of standard cement monument of the Maryland Shell Fish Survey, note 16. It is 6.77 meters (22.2 feet) from station in azimuth 80° 11′. Other distances and azimuths are as follows: Farmhouse, seen through trees, ¼ mile, 3° 45′; nail in blaze on tree, 6.59 meters (21.6 feet), 87° 32′; nail in blaze on 6-inch tree, 15.57 meters (51.1 feet), 171° 01′.

Magothy 2 (Anne Arundel County, C. C. Yates, 1907, 1908).—On the west shore of Chesapeake Bay, about halfway between Persimmon Point and Sandy Point, about 1¾ miles northwest of Sandy Point Light and about 2 miles south-southeast of Mountain Point. Station is about 20 feet back from edge of a bluff 20 feet high; it is just outside an orchard about midway between a group of farm buildings and a grove of trees to the westward. Station marked by a nail in a wooden stub projecting 3 inches above the surface of the ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. It is 11.63 meters (38.2 feet) from the station in azimuth 75° 36′. Other distances and azimuths are as follows: Nail in blaze on tree, 32.92 meters (108.0 feet), 124° 06′; nail in blaze on tree, 62.3 meters (204.4 feet), 306° 44′; west peak of farmhouse, ¼ mile, 332° 41′.

Corn (Anne Arundel County, C. C. Yates, 1906; 1908).—On the west shore of Chesapeake Bay, about 1 mile northwest of Sandy Point Light, in a cultivated field, about 18 feet back from the edge of a bluff 15 feet high. Station is marked by a nail in a stub set flush with the ground. The reference mark is center of triangle on standard cement monument of the Maryland Shell Fish Survey, note 16; it is 9.425 meters (30.92 feet) from station in azimuth 58° 03′. Other distances and azimuths are as follows: Lone 2-inch oak tree, ¼ mile, 28° 26′; east peak of red roof of barn or house, ¾ mile, 42° 20′.

Stevens (Kent County, C. C. Yates, 1909; 1918).—On the eastern shore of Chesapeake Bay, about ¼ mile south of Huntingfield Point at entrance to Huntingfield Creek. Station is in cultivated field, about 5 meters from edge of high bluff, which in 1918 was reported as washing away fast. At that time the surface mark was reported as having been removed through plowing of the field, but the subsurface mark was recovered. It is the center of a 2-inch tile pipe buried with its top 2 feet below surface of the ground. Distances and azimuths to various points of reference are as follows: Southeast corner of fishing shack on Swan Point, 2½ miles, 136° 27′; east gable of Strong barn, 2½ miles, 150° 45′; Thompson's windmill, 2 miles, 160° 04′; chimney of house, 1¼ miles, 175° 35′; nail in blaze in 10-inch cedar tree, 200 yards, 180° 27′; Wick's windmill, 1 mile 248° 19′; nail in blaze in 18-inch locust tree, 110 yards, 252° 26′; chimney of small house, 1 mile, 265° 01′; nail in blaze in 10-inch persimmon tree, 130 yards, 300° 29′; chimney of Stevens's tenant house, ½ mile, 345° 42′.

Tolly (1906) (Anne Arundel County, C. C. Yates, 1906; 1910).—On south side of entrance to Annapolis roads, about 150 yards northwest of Tolly Point, on a low point of land, about 1 foot above and 12 feet back from high-water mark, and 175 yards northeast of old Bay Ridge Hotel. Station mark is nail in stub flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 10.86 meters (35.6 feet) from station in azimuth 43° 24′. Distances and azimuths from the station to other points of reference are as follows: Nail in blaze in 12-inch holly tree, 9.65 meters (31.66 feet), 19° 03′; nail in blaze in 18-inch swamp-oak tree, 10.97 meters (36.0 feet), 72° 01′; chapel dome, Naval Academy, 3½ miles, 144° 54′; water tower opposite Naval Academy, 3½ miles, 160° 02′; peak of Whitehall's house, 4 meters, 195° 04′.

Hackett (1910) (Anne Arundel County, O. W. Ferguson, 1910).—Near center of Hacketts Point, 25 meters back from caving bank, about 75 meters south-

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ward from high point of bank of pond, and on ridge between the two horns of pond. Marked by a cement post 8 inches square on top, about 20 inches long, and 2½ inches above ground. Subsurface mark is nozzle of bottle. Reference mark is a 4-inch tile set in cement with large end down and top 2 inches above surface, centered by a ¾-inch iron pipe, 14 inches long and ¼ inch above top of tile; distant 66.14 meters (216.99 feet) and in azimuth 194° 55′.

Greenbury Point (1910) (Anne Arundel County, O. W. Ferguson, 1910).—On naval reservation on high, level ground, 148 feet back from the top of bank to westward and 2,416 feet from the top of bank to eastward. Marked by a 4-inch tile set in cement with large end down and top 2 inches above ground, centered by a 2-inch iron pipe 20 inches long with an inverted spike in top. Reference mark is a Maryland Shell Fish Commission cement block set in clay, note 16, distant 72.582 meters (238.13 feet) and in azimuth 202° 34′ 57″.

Millers Island (1918) (Baltimore County, E. D. Bromley, 1918).—On western side of Chesapeake Bay, on northeast side of Millers Island, about 250 meters from extreme north end of island and 2½ meters back from high-water line in sand and marsh. Station marked by stub 4 feet long driven into marsh, surrounded by three stubs used to support tripod legs.

Mitchells Bluff, tower No. 11 (Kent County, E. D. Bromley, 1918).—On eastern shore of Chesapeake Bay, ½ mile north of Tolchester Beach Pier, and at first break in bluff north of pier, 12 meters above high water, 38 paces back from edge of bluff, and 4 meters southeast of fisherman's shanty. The underground mark is a nail in concrete, as described in note 7c. The surface station mark is a bronze tablet set in a concrete post, as described in note 1a. The reference mark is a bronze tablet set in a concrete post, as described in note 11a. It is in corner of yard, and is 23.40 meters (76.8 feet) from station in azimuth 9° 28′.7. Cupola on Tolchester Pier, distant ½ mile, is in azimuth 32° 37′. Over this station was erected an observing tower 60 feet high.

Steel tower No. 13 (Kent County, E. D. Bromley, 1918).—On eastern shore of Chesapeake Bay, about 2½ miles north of Swan Point, on a bluff just north of Hodge's barn, 35 paces from edge of bank, 350 meters north of farmhouse, and about 150 meters south of an old chapel near the shore, just north of which is another farmhouse. The underground mark is a nail set in concrete as described in note 7c. The station mark is a bronze tablet set in a concrete post as described in note 1a. The reference mark is a bronze tablet set in a concrete post as described in note 11a. It is in a fence line, on lower ground than the station, and is 50.055 meters (164.22 feet) distant in azimuth 226° 14′.4. East chimney of farmhouse distant 350 meters is in azimuth 345° 41′. An 80-foot steel tower was erected over the station.

Swan Point, tower No. 14 (Kent County, E. D. Bromley, 1918).—On eastern shore of Chesapeake Bay, ½ mile north of south end of Swan Point, 400 meters back across swamp from shore in a field, on high ground, 100 meters from tree line where all trees have been cut down. A very large stump of a tree is almost on range between the station and Craighill Channel Light (front range). The underground mark is a nail in concrete as described in note 7c. The surface station mark is a bronze tablet set in concrete as described in note 1a. The reference mark is a bronze tablet set in a concrete post as described in note 11a. It is in fence line and is 22.05 meters (72.3 feet) from station in azimuth 307° 19′.2. Azimuth of south chimney of white house is 216° 48′.5, and of west gable of red barn 267° 51′.1. A 40-foot observation tower was erected over the station.

Fairlee, tower No. 10 (Kent County, E. D. Bromley, 1918).—On the eastern shore of Chesapeake Bay, about 1 mile south of the entrance to Fairlee Creek and about 211 meters south of triangulation station *Bramble* and 25 paces back from edge of bluff. The underground mark is a nail set in concrete as described in note 7c. The station mark is a bronze tablet set in a concrete post as described in note 1a. The reference mark is a bronze tablet set in a concrete post as described in note 11a. It is 24.118 meters (79.13 feet) from station in azimuth 273° 05′.8. Other azimuths from the station are as follows: Barn cupola, 333° 54′.3; cupola on end of Tolchester Wharf, 24° 28′.5. A 40-foot observation tower was erected over this station.

Gales farm, tower No. 12 (Kent County, E. D. Bromley, 1918).—On eastern shore of Chesapeake Bay, ½ mile south of Tolchester Amusement Pier, about 250 meters south of cottage in edge of woods, and 28 paces back from edge of high bluff. The underground mark is a nail set in concrete as described in note 7c. The station mark is a bronze tablet set in a concrete post as de-

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scribed in note 1a. The reference mark is a bronze tablet set in a concrete post as described in note 11a. It is at the edge of the woods and is 51.378 meters (168.6 feet) from the station in azimuth 273° 37′.3. The azimuth of the cupola on end of Tolchester Pier is 186° 54′.6. A 40-foot observation tower was erected over this station.

Huntingfield Bank, tower No. 15 (Kent County, E. D. Bromley, 1918).—On eastern shore of Chesapeake Bay, nearly a mile south of extreme end of Huntingfield Point, in an open field, on the second bluff back from shore line, 85 meters from shore line, and 75 meters from edge of bluff. The underground mark is a nail set in concrete as described in note 7c. The station mark is a bronze tablet set in a concrete post as described in note 1a. The reference mark is a bronze tablet set in a concrete post as described in note 11a. It is back in field, 49.430 meters (162.17 feet) from station in azimuth 251° 07′.1. The azimuth to east gable of fisherman's shanty on Swan Point is 139° 56′.2, and to west chimney of farmhouse, distant ¼ mile, 299° 48′.2. A 40-foot observation tower was built over this station.

Love Point, tower No. 16 (Queen Annes County, E. D. Bromley, 1918).—On Love Point, north end of Kent Island, on a high bluff, 160 meters from west shore and ¼ mile south from extreme north end of point. Station is on north side of Talbot Avenue and 87 paces north of Lake Road as shown on plats of Love Point Land Co. Line of sight from station to water tank passes 15 feet north of yellow house. The underground mark is a nail set in concrete as described in note 7c. The station mark is a bronze tablet set in concrete as described in note 1a. The reference mark is a bronze tablet set in a concrete post as described in note 11a. It is near an apple tree in back yard of yellow house, 52 meters from the house and 55.365 meters (181.64 feet) from station in azimuth 319° 42′.0. Other azimuths from the station are as follows: North flagstaff of Fillmore Hotel, 286° 53′.4; water tank in railroad yard, 305° 38′.1; northeast chimney of W. E. Denny's brick house, ½ mile, 1° 11′.

Tower N (Baltimore County, E. D. Bromley, 1918).—On western shore of Chesapeake Bay, 350 meters north of Bay Shore Park Amusement Pier, and 110 meters west of concrete breakwater and car tracks. Line of sight from station to Craighill Channel Light (front range) passes 10 feet north of seventh electric railway pole counting the pole opposite bathhouse No. 2 as the first. Line of sight from station to white water tank passes 75 feet west of roller coaster. The underground mark is a nail set in concrete as described in note 7c. The station mark is a bronze tablet set in concrete as described in note 1a. The reference mark is a bronze tablet in a concrete post as described in note 11a. It is 23.040 meters (75.59 feet) from station in azimuth 273° 36′.1. Azimuth of staff on end of pier is 346° 29′.1, and of top of water tank, 56° 42′.2.

Black Marsh 2 (Baltimore County, D. B. Wainwright, 1896).—On the marsh point just above the mouth of Shallow Creek, and northeast of lower North Point Light. It is opposite the line of woods extending westward toward Mr. Robbins's house, and is about 60 meters from them, and 6 meters back from shore line. Marked by a concrete post 3 feet long sunk in the marsh, and having a copper-plated steel rod extending its full length and projecting slightly above its top. Top of post is about 5 inches above surface of marsh.

Crows Nest (Anne Arundel County, D. B. Wainwright, 1896).—About 2¼ miles south of Bodkin Point, and ¼ mile north of a break in the bluff, in a peach orchard, 15 meters back from edge of bluff, and about 300 meters northeast of a prominent dead tree with crow's nest in top. Marked by a nail in top of a 3 by 4 inch pine stub, 2½ feet long.

SWAN CREEK

Windmill Point (Kent County, C. C. Yates, 1909).—On the eastern shore of Chesapeake Bay, on Windmill Point, at the northern side of the entrance to Rock Hall Harbor, on low marsh land about level with high water, about 30 yards back from the end of the point, and 20 yards south of a group of large pine trees. Station mark is center of 2-inch tile pipe filled with sand with top flush with surface of marsh. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 24.13 meters (79.2 feet) from station in azimuth 200° 14′. Other distances and azimuths are as follows: Nail in blaze in 18-inch pine tree, 17.33 meters (56.9 feet),

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164° 26′; nail in blaze in 24-inch pine tree, 23.57 meters (77.3 feet); 195° 50′; nail in blaze in 20-inch pine tree, 16.52 meters (54.2 feet), 233° 57′; Rock Hall M. E. Church spire, 1 mile, 255° 53′; highest gable on Sharps Wharf, ⅜ mile, 264° 29′; east chimney of house, ½ mile, 289° 14′; chimney of small house, ½ mile, 305° 42′; west chimney of small house, 1 mile, 328° 51′.

Gratitude (Kent County, C. C. Yates, 1909).—On the eastern side of Chesapeake Bay, at eastern side of entrance to Swan Creek, opposite middle of Little Neck Island, and near old Rock Hall Wharf. Station is on marsh meadow, about 1 foot above high water, 12 yards east of shore, 150 yards southwest of a house, and 400 yards south-southwest of Rock Hall Landing. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of fishing shack on Swan Point, 1 mile, 102° 33′; left tangent of piles of old Rock Hall Wharf, 200 yards, 136° 01′; west gable of Strong barn, ¾ mile, 142° 35′; chimney of tallest house at Rock Hall Landing, ¼ mile, 174° 01′; chimney of house, 1 mile, 178° 05′; post on northwest corner of Downey's porch, 150 yards. 208° 43′; nail in blaze in 10-inch cedar tree, 107 yards, 284° 49′; north gable of old barn, 200 yards, 288° 22′; north gable of barn, 1⅝ miles, 321° 07′.

Bank (Kent County, C. C. Yates, 1909).—On the eastern shore of Chesapeake Bay, on western side of entrance to Tavern Creek, about ⅝ mile northeast of Swan Point, in a cultivated field about 7 feet above high water, 12 yards inshore, and 2 yards from edge of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: South one of twin trees on Little Neck Island, ¼ mile, 00° 26′; nail in blaze in 3-inch locust tree, 10.39 meters (34.1 feet), 63° 31′; chimney of fishing shack on Swan Point, ½ mile, 78° 44′; west gable of Strong's barn, ⅝ mile, 161° 06′; southwest corner of Strong's house, ⅝ mile, 181° 36′; chimney of tenant house, ¾ mile, 220° 22′; north gable of barn, 1⅜ miles, 258° 14′; Thompson's windmill, ½ mile, 279° 14′; west gable Rock Hall Wharf house, ⅜ mile, 281° 35′; north gable of Donwney's house, ½ mile, 286° 16′; nail in blaze in 4-inch locust tree, 10.32 meters (33.9 feet), 300° 23′.

Orchard (Kent County, C. C. Yates, 1909).—On the eastern and southern shore of Swan Creek, about ⅛ mile north of Rock Hall Landing, on a sand and grass point about 3 feet above high water, 7 yards west of peach orchard, 6 yards east of shore, 33 yards west-southwest of shore, 31 yards south of extreme end of point, 23 yards north of wire fence, and 53 yards north of a house. Station mark is center of 2-inch tile pipe projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 9.67 meters (31.73 feet) from the station in azimuth 263° 04′. Distances and azimuths to other points of reference are as follows: West peak of 2-story wharf house, ⅛ mile, 13° 42′; chimney of house on Swan Point, 1 mile, 78° 45′; east chimney of house, ½ mile, 121° 08′; south peak between two chimneys of large house, 1⅜ miles, 184° 36′; chimney of an old long building, 1 mile, 223° 05′; nail in blaze in 7-inch locust tree, 21.85 meters (71.7 feet), 254° 47′; nail in blaze in 5-inch peach tree, 8.07 meters (26.48 feet), 305° 42′; right corner of 1½ story building, 32.57 meters (106.9 feet), 308° 44′; northwest corner of house, 53 yards, 346° 06′; nail in blaze in 13-inch tree, 21.60 meters (70.9 feet), 352° 52′.

Tavern (Kent County, C. C. Yates, 1909).—On the eastern side of Chesapeake Bay, on western side of Tavern Creek, about ⅜ mile north of entrance to creek, 1 mile northeast of Swan Point, and ½ mile northwest of Rock Hall Landing. Station is in the eastern side of peach and apple orchard, about 1 foot above high water, 152 yards northwest of shore, 165 yards west of shore, 8 yards west of edge of sage land, 15 yards west of wire fence, 18 yards south of another wire fence, 52 yards north of still another wire fence, and 125 yards east of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: 18-inch apple tree, 49 yards, 12° 40′; nail in blaze in 20-inch apple tree, 35.02 meters (114.9 feet), 33° 18′; nail in blaze in 24-inch apple tree, 14.99 meters (49.2 feet), 66° 41′; nail in blaze in 5-inch peach tree, 10.39 meters (34.09 feet), 116° 01′; nail in blaze in 18-inch apple tree, 19.49 meters

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(63.9 feet), 153° 12′; center of chimney at right end of roof of house with ell, 1¼ miles, 225° 27′; gilt ball on lightning rod near left end of house, ½ mile, 310° 57′.

Fork (Kent County, C. C. Yates, 1909).—On the western shore of Swan Creek, about ½ mile north-northwest of Rock Hall Landing, and ⅜ mile northwest of the entrance to The Haven, on marsh land, about 2 feet above high water, 25 yards inshore, and 200 yards from extreme south end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of Sullivan's house, ¾ mile, 7° 45′; chimney of house, ½ mile, 27° 38′; east chimney of Strong's house, ⅝ mile, 81° 26′; chimney of Elliason's house, ¼ mile, 95° 13′; nail in blaze in 3-inch locust tree, 11.15 meters (36.6 feet), 209° 51′; chimney of Swatska's tenant house, ⅝ mile, 228° 23′; north chimney of Biglow's house, ⅞ mile, 255° 28′; north chimney of house, ⅝ mile, 297° 37′; Rock Hall M. E. Church spire, 1½ miles, 310° 13′; highest chimney of house, 1 mile, 326° 06′; east chimney of Frank Ayers's house, ¾ mile, 334° 56′; east chimney of Georgia Ayer's house, ⅜ mile, 350° 01′.

Treasure (Kent County, C. C. Yates, 1909).—On the eastern shore of Swan Creek, on point at western side of entrance to The Haven, about ½ mile east-northeast of Rock Hall Landing. Station is on a marsh point below high water, about 25 yards inshore, and 300 yards northeast of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: East chimney of Ayer's house, 300 yards, 36° 19′; east gable of small barn, ⅜ mile, 63° 07′; nail in blaze in 8-inch dead locust tree, 37.98 meters (124.6 feet), 69° 28′; nail in blaze in 8-inch dead locust tree, 36.32 meters (119.2 feet), 78° 05′; west gable of Strong's barn, 1 mile, 102° 23′; south gable of barn, ¾ mile, 145° 52′; south gable of barn, ¾ mile, 193° 18′; lone pine tree on opposite shore, ¼ mile, 240° 48′; west gable of barn, ½ mile, 268° 38′; Rock Hall M. E. Church spire, 1¼ miles, 303° 35′; north gable of house, ⅝ mile, 315° 15′; west gable of house, 1 mile, 320° 56′; east pine tree of group ¼ mile, 328° 57′.

Rail (Kent County, C. C. Yates, 1909).—On the eastern shore of Swan Creek, about ¾ mile northeast of Rock Hall Landing, on a low point about 2 feet above high water, 3 yards back from shore, and west of a number of small locust trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: East chimney of Frank Ayer's house, ¾ mile, 1° 11′; east chimney of Georgia Ayer's house, ½ mile, 19° 16′; chimney of Sullivan's house, ½ mile, 23° 30′; Thompson's windmill, ¾ mile, 35° 05′; north chimney of Burgess's house, ⅝ mile, 40° 14′; chimney of fishing shack, ⅝ mile, 52° 22′; chimney of tenant house, ½ mile, 84° 57′; south gable of Henson's barn, ⅝ mile, 129° 32′; south gable of corncrib, 1 mile, 159° 14′; south gable of Swatska's house, ⅜ mile, 216° 37′; nail in blaze in 4-inch locust tree, 9.94 meters (32.61 feet), 234° 34′; nail in blaze in 3-inch locust tree, 14.96 meters (49.1 feet), 265° 49′; nail in blaze in 3-inch locust tree, 19.24 meters (63.1 feet), 308° 49′; north chimney of house, ¾ mile, 328° 12′; highest chimney of house, 1 mile, 341° 46′.

Haven (Kent County, C. C. Yates, 1909).—On the eastern shore of Swan Creek, at northern side of entrance to The Haven, about ⅝ mile east-northeast of Rock Hall Landing, on a long marsh point about 2 feet above high water, 5 yards back from high-water mark, and 7 yards west and 8 yards north of large pine trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Thompson's windmill, ⅝ mile, 61° 51′; south chimney of Burgess's house, ⅝ mile, 63° 51′; chimney of tenant house, ⅝ mile, 111° 21′; nail in blaze in 15-inch oak tree, 9.82 meters (32.22 feet), 143° 51′; south gable of corncrib, 1¼ miles, 159° 08′; nail in blaze in 18-inch pine tree, 6.69 meters (21.95 feet), 231° 09′; north chimney of Shamokin's house, ⅜ mile, 258° 40′; north chimney of house, ¼ mile, 289° 06′; nail in blaze in 18-inch pine tree, 7.20 meters (23.62 feet), 298° 06′; north gable of house, ⅝ mile, 338° 06′.

Spike (Kent County, C. C. Yates, 1909).—On the eastern shore of Swan Creek, about ⅞ mile north-northeast of Rock Hall Landing, among trees and

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bushes, about 2 feet above high water, 30 yards east of shore, and 1 yard west of edge of cultivated field. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 5-inch locust tree, 6.11 meters (20.05 feet), 5° 15′; windmill at Gratitude, 1 mile, 19° 22′; chimney of old house, ½ mile, 52° 57′; chimney on main part of Strong's house, 1 mile, 60° 46′; nail in blaze in 4-inch locust tree, 3.61 meters (11.84 feet), 110° 24′; right peak of right hand barn, ¾ mile, 120° 44′; large square chimney of large brick house, ¾ mile, 156° 12′; north chimney of brick house, ⅜ mile, 186° 25′; north peak of old barn, ¼ mile, 247° 59′; nail in blaze in 3-inch locust tree, 5.02 meters (16.47 feet), 350° 04′.

Elliason (Kent County, C. C. Yates, 1909).—On the western shore of Swan Creek, on point of land at north side of entrance to a small cove about ¾ mile north of Rock Hall Landing. Station is about 2 feet above high water, 16 yards west by north of shore, 23 yards north-northwest of shore, 30 yards northeast of shore, and 33 yards north by east of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Windmill at Gratitude, ¾ mile, 6° 40′; gilt ball on lightning rod, ¾ mile, 9° 31′; weather vane on Rock Hall Wharf house, 1 mile, 14° 51′; east chimney of Strong's house, ⅝ mile, 56° 49′; near peak of very large brick house, ¾ mile, 173° 59′; south chimney of large house, ½ mile, 213° 11′; large chimney of 2½-story house, 1⅜ miles, 223° 05′; west peak of barn, ½ mile, 254° 50′; south chimney of house, ⅞ mile, 274° 55′; right chimney of house, 1¼ miles, 312° 09′; main chimney of house on Rock Hall Road, 1¼ miles, 320° 53′; large house on Rock Hall Road, 1¼ miles, 328° 01′.

Urie (Kent County, C. C. Yates, 1909).—On the western shore of Swan Creek, about 1 mile north of Rock Hall Landing, on a slight projection of the shore, about 1 foot above high water, and 4 yards west of shore. Station mark is center of 2-inch tile pipe projecting 1 inch above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 4.76 meters (15.62 feet) from station in azimuth 21° 35′. Other distances and azimuths are as follows: Nail in blaze in 6-inch black thorn tree, 5.37 meters (17.62 feet), 21° 48′; nail in blaze in 6-inch black thorn tree, 4.84 meters (15.88 feet), 31° 53′; nail in blaze in 3-inch water bush, 3.69 meters (12.11 feet), 97° 39′; nail in blaze in 4-inch water bush, 10.82 meters (35.5 feet), 154° 56′; near peak of barn, ½ mile, 174° 28′; west large chimney on west end of large brick house, 1 mile, 237° 37′; left chimney of Corr house, ¼ mile, 244° 23′; near peak of barn near several buildings, ½ mile, 284° 37′; chimney of large house, 1 mile, 311° 18′; near peak of large house, 1½ miles, 333° 11′; gilt ball on weather vane, 1¼ miles, 346° 25′.

Corr (Kent County, C. C. Yates, 1909).—On the eastern shore of Swan Creek, about 1¼ miles north of Rock Hall Landing, about 1 foot above high water, 6 yards northeast of rounded point of shore, 13 yards northwest of square cut in shore, 13 yards southeast of point where wire fence meets shore, and 50 and 65 yards south of two large trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of house, 1⅛ miles, 15° 45′; chimney of old house, ¾ mile, 36° 37′; right chimney of Strong's house, 1 mile, 48° 59′; near peak of house between two barns, ⅝ mile, 100° 22′; large square chimney of large brick house, ½ mile, 143° 39′; north chimney of brick house, 150 yards, 205° 21′; east chimney of large house, ⅝ mile, 246° 28′; chimney of old house, ½ mile, 311° 52′.

CHESTER RIVER

Narrows Point (Kent County, J. A. Flemer, 1896; 1909).—On the eastern shore of Chesapeake Bay, at north side of mouth of Chester River, on southwest end of East Neck Island, about ⅛ mile north of Cockeys Island and ⅝ mile west-northwest of Cedar Point, on a low marshy point about level with high water, about 7 yards from low water, and 325 yards west of a fishing

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shack. The station is marked by a nail in a cement-filled tile pipe; the top of the pipe, 4 inches below surface, is surrounded by a block of cement bearing the legend "U. S. C. S.–1896," note 21. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 12.28 meters (40.3 feet) from station in azimuth 197° 58′. Distances and azimuths from the station of other points of reference are as follows: North gable of house, 2¾ miles, 1° 18′; north gable of house on Jackson Creek, 2⅞ miles, 4° 49′; east gable of Jackson Wharf house, 2¾ miles, 6° 54′; north gable of barn, 3 miles, 27° 30′; chimney of fishing shack, 325 yards, 266° 10′; cupola of barn, 2⅝ miles, 297° 07′; north gable of house, 2½ miles, 322° 53′; north gable of barn, 2½ miles, 327° 55′; cupola on barn, 2½ miles, 349° 28′.

Long Point (Queen Annes County, J. A. Flemer, 1896).—On the southern shore of Chester River, on Long Point, just south of the sand dune at northeast end of point, and north by east of the northernmost group of pines on the eastern shore of Long Point. The station is marked by a nail in a cement-filled tile pipe; the top of the pipe, 6 inches below surface, is surrounded by a block of cement bearing the legend "U. S. C. S.–1896," note 21. Approximate azimuths to various objects are as follows: Tangent to west edge of pine grove, 24° 06′; west chimney old house (Wright's), 53° 48′; tangent west edge of East Neck Island, 167° 36′; tangent west edge of pine grove on Hail Point, 214° 16′; north chimney, yellow house, red roof, 296° 51′; ventilator on Jackson Creek Wharf house, 329° 18′; tangent to east edge of pine grove, 359° 21′.

Lords Gift 2 (Queen Annes County, J. A. Flemer, 1896).—On the southern shore of Chester River, about ½ mile southwest of the mouth of Courcy Creek, in a peach orchard on the place locally known as "Lords Gift." It is on line with the outer row of peach trees and near the fence line skirting the top of the bluff. The station is marked by a nail in a cement-filled tile pipe; the top of the pipe, 6 inches below surface, is surrounded by a block of cement bearing the legend "U. S. C. S.–1896," note 21. Three peach trees were marked with nails in form of triangles on sides facing station; their distances from the station are: 10.5 feet, northeast; 40.1 feet, south by east; 66.5 feet, southwest. Corner post of second fence southwest of the station is distant 144 meters; and corner post of first fence southwest of station is distant 57 meters. These corners are where the fence along edge of bluff meets fences at right angles.

Hail Point 2 (Kent County, J. A. Flemer, 1896).—On the southeastern extremity of East Neck Island, on the tip end of Hail Point, north side of Chester River, opposite Courcy Creek. The station is marked by a nail in a cement-filled tile pipe; the top of the pipe, 6 inches below surface, is surrounded by a block of cement bearing the legend "U. S. C. S.—1896," note 21. A triangle cut in a small persimmon tree is 19.6 feet N. 11° W. (mag.) from the station. Magnetic bearings from the station to other objects are as follows: Bogle's Wharf house, East Neck Island, N. 9° 30′ W.; depot building near railroad wharf, Queenstown, S. 54° 30′ E.; large pine tree near Green's cabin on Cedar Point, S. 88° 15′ W.

Piny Point 2 (Queen Annes County, J. A. Flemer, 1896).—On the eastern side of Chester River, on western shore of Tilghman Neck, on Piney Point, 14 feet from the shore line, on a narrow beach, close to west edge of reed marsh. The station is marked by a nail in a cement-filled tile pipe; the top of the pipe, 6 inches below surface, is surrounded by a block of cement bearing the legend "U. S. C. S.—1896," note 21.

Bay Bush Point (Kent County, J. A. Flemer, 1896; 1909).—On the western shore of Chester River, on Ringold Point, about ¼ mile north of entrance to Fryingpan Cove and Church Creek, on a marsh point, about 1 foot above high water, 15 yards inshore, and in front of several persimmon trees. The station is marked by a nail in a 3-inch cement-filled tile pipe; the top (6 inches below surface) surrounded by cement bearing the legend "U. S. C. S.—1896," note 21. The reference mark, set in 1909, is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 10.16 meters (33.3 feet) from the station in azimuth 99° 47′. Distances and azimuths from the station to other points of reference are as follows: Chimney of Bogle's store, 1⅝ miles, 0° 04′; nail in blaze in 6-inch persimmon tree, 6.25 meters (20.50 feet), 11° 08′; nail in blaze in 8-inch persimmon tree, 6.20 meters (20.34 feet), 162° 49′; west chimney of house, 1¼ miles, 186° 08′; east gable of barn, 3 miles, 204° 14′; west gable of barn, 3 miles, 258° 23′; Williams's water tank, 2½ miles, 310° 26′; left tangent of piles at Bogle Wharf, 1¼ miles, 350° 25′.

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Grays Inn Point (Kent County, J. A. Flemer, 1896).—On the northwest side of Chester River, just east of the mouth of Grays Inn Creek, on point of same name. Station is on sand dune which is well covered with vegetation and is south of Edgar Strong's peach orchard. A small group of large cedar trees is due west of the station. The station is marked by a nail in a 3-inch cement-filled tile pipe; the top, 6 inches below surface, is surrounded by cement bearing the legend "U. S. C. S.—1896," note 21. A triangle cut in the southwest side of the largest of a group of small oak trees bears N. 44° E. from the station, distant 7 meters. A lone cedar tree near shore at mouth of Grays Inn Creek bears N. 68° 45′ W. from the station and a sycamore tree to the northwest of the pine tree bears N. 60° 46′ W.

Nichols Point (Kent County, J. A. Flemer, 1896).—On the northern shore of Chester River, at southern end of Quaker Neck, on Nichols Point, at eastern side of entrance to Langford Creek. It is 7 paces southeast from east end of small group of persimmon trees. The station is marked by a nail in a cement-filled tile pipe; the top of the pipe, 6 inches below surface, is surrounded by a block of cement bearing the legend "U. S. C. S.—1896," note 21. The following azimuths are from the station: West chimney of Nicholas's house, 195° 56′; center chimney of shanty on Cliff Point, 236° 54′; low white chimney with black top on cabin, 253° 46′; west gable of dormer on west side of Burns's house, 255° 50′; north gable of Spaniard Wharf house, 261° 15′; south gable of Cissel's barn on Lower Spaniard Point, 282° 35′; north chimney of old deserted house, 287° 56′.

Holton Point (Queen Annes County, J. A. Flemer, 1896; 1909).—On the eastern shore of Chester River, at south side of entrance to Corsica River, on Holton Point, on a low sand beach about level with high water, and ¼ mile west of small bathhouse. The station is marked by a nail in a 3-inch cement-filled tile pipe; the top of the pipe, 6 inches below surface, is surrounded by a block of cement bearing the legend "U. S. C. S.—1896," note 21. Reference mark set in 1909 is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 5.40 meters (17.72 feet) from station in azimuth 311° 53′. Distances and azimuths from the station of other points of reference are as follows: Nail in blaze in 4-inch persimmon tree, 28.35 meters (93.0 feet), 25° 53′; north gable of barn, 2⅛ miles, 33° 53′; east gable of small house, 2¼ miles, 121° 23′; south gable of barn, 2½ miles, 131° 52′; south gable of house, 2⅞ miles, 144° 24′; east chimney of house, 1¾ miles, 158° 32′; west chimney of house, 2 miles, 195° 07′; south gable of corn crib, ⅝ mile, 221° 29′; west gable of barn, 1 mile, 248° 19′.

Spaniard Point 2, upper (Queen Annes County, J. A. Flemer, 1896; 1909).—On the southeastern shore of Chester River, on Lower Spaniard Point, about ½ mile southwest of Spaniard Wharf. Station is on a sand beach about 1 foot above high water, 8 yards southeast of shore, and 300 yards northwest of woods. The station is marked by a nail in a cement-filled tile pipe; the top of the pipe, 6 inches below surface, is surrounded by a block of cement bearing the legend "U. S. C. S.—1896," note 21. Reference mark established in 1909 in center of standard cement monument of Maryland Shell Fish Survey, note 16, with top 6 inches above ground. It is 11.72 meters (38.5 feet) from station in azimuth 289° 09′. Distances and azimuths to other points of reference are as follows: North gable of barn, 3 miles, 28° 29′; south gable of barn, 2⅞ miles, 95° 16′; east gable of barn, 2⅝ miles, 108° 42′; church steeple, 3 miles, 121° 57′; west chimney of Brown's house, 1⅜ miles, 130° 12′; west chimney of house, 1 mile, 168° 42′; right tangent of piles at Cliffs Landing, ⅞ mile, 193° 12′; south gable of house, 1⅛ miles, 193° 37′.

Cliff Point (Kent County, J. A. Flemer, 1896).—On the northern shore of Chester River, on Cliff Point, opposite Upper Spaniard Point. Station is 19.3 feet south from edge of bank. The station is marked by a nail in a 3-inch cement-filled tile pipe; the top, 6 inches below surface, is surrounded by cement bearing the legend "U. S. C. S.—1896," note 21. The following azimuths are from the station: Chimney of shanty, 146° 38′; west gable of Cliff City Wharf house, 252° 39′; west gable of dormer on Burns's house, 268° 28′; north gable of large barn, 299° 39′; north gable of Spaniard Wharf house, 322° 20′.

Spaniard Wharf (Queen Annes County, J. A. Flemer, 1896).—On the southern side of Chester River, on a sand dune about 150 yards northeast of the south

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end of Spaniard Wharf, and 101 yards north of an east-and-west fence. The station is marked by a nail in a cement-filled tile pipe; the top of the pipe, 6 inches below surface, is surrounded by a block of cement, bearing the legend "U. S. C. S.—1896," note 21. Distances and azimuths to various points of reference are as follows: Northeast corner of Indiantown Wharf, 237° 23′; northwest chimney of large square house, 283° 51′; north gable of large barn, 287° 08′; cedar post in fence line (marked with 3 nails in form of triangle), 403.5 feet, 2° 13′; west end of fence along south edge of marsh, 443 feet, 23° 31′; southeast corner Spaniard Wharf house, 461.5 feet, 54° 53′; northeast corner Spaniard Wharf house, 473 feet, 57° 31′; chimney center of white shanty, Cliff Point, 135° 13′; west gable Cliff City Wharf house, 154° 43′. At the station, Hutchinson's white barn buildings are in range with the middle of the north end of Spaniard Wharf, and the south chimney of white house with red roof is in range with the center of the Cliff City Wharf house.

Deep Point 2 (Kent County, J. A. Flemer, 1896; 1909).—On the northwestern shore of Chester River, about 1¼ miles northeast of Spaniard Wharf, on Deep Point, at the eastern side of Commegys Bight. Station is about 1 foot above high water, among several cedar and poplar trees on point, 13 yards northeast of shore, 21 yards southwest by west of shore, 40 yards northwest of extreme end of point, and 120 yards southeast of 1½-story house. The station is marked by a nail in a 3-inch cement-filled tile pipe; the top, 2 inches below surface, is surrounded by cement bearing the legend "U. S. C. S.–1896," note 21. Reference mark set in 1909 is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 17.14 meters (56.2 feet) from the station in azimuth 126° 08′. Distances and azimuths from the station of other points of reference are as follows: Chimney of brick house, 1 mile, 13° 35′; chimney on near peak of house, 1¼ miles, 93° 49′; nail in blaze in 10-inch poplar tree, 17.78 meters (58.3 feet), 126° 10′; right tangent of back of Westcott house, 120 yards, 140° 06′; nail in branch of 8-inch double tree, 19.74 meters (64.8 feet), 200° 53′; left tangent of Ashland Wharf, 1⅜ miles, 233° 14′; near chimney on west peak of house, 2½ miles, 243° 08′; southwest peak of house near Indiantown Wharf, ⅞ mile, 251° 33′; nail in blaze in branch of 15-inch cedar tree, 11.48 meters (37.7 feet), 265° 37′; cupola on barn, 1 mile, 281° 53′; nail in blaze in 11-inch poplar tree, 15.02 meters (49.3 feet), 314° 04′; largest one of three chimneys of house, 1¼ miles, 322° 17′.

Mummy Point 2 (Queen Annes County, J. A. Flemer, 1896).—On the southeastern shore of Chester River, directly opposite Deep Point, on point known as Mummy Point. It is 29 feet from shore line, 377.3 feet from end of fence (near shore line) running in northwesterly direction. The station is marked by a nail in a cement-filled tile pipe; the top of the pipe, 6 inches below surface, is surrounded by a block of cement bearing the legend "U. S. C. S.–1896," note 21. Distances and azimuths from the station of various points of reference are as follows: South chimney of first large wharf house on Quaker Neck beyond Deep Point, 186° 32′; west end of fence, 377.3 feet, 211° 44′; white chimney southwest gable old white cabin, 241° 48′; west gable dormer of Burns's house, 265° 31′; cedar on old fence line, 286° 45′; triangle blazed in cedar tree, old fence line, 334.6 feet, 309° 42′; west gable large barn, 36° 03′; northwest chimney large square house, 39° 36′.

Railway water tank (Queen Annes County, C. C. Yates, 1909).—On the northern shore of Kent Island, about halfway between Chesapeake Bay and Chester River and ¾ mile south by west of Love Point. Station is center point of top of water tank, the only large elevated water tank located just north of the center of the bend of the railway that leaves Love Point Landing.

Wickes Beach (Kent County, C. C. Yates, 1909).—On the eastern shore of the mouth of Chester River, on western side of East Neck Island, near Wickes Beach, on a narrow sand beach about on level with high water, 10 yards back from low-water line, and 2 yards west of swamp which extends back to woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North gable of barn, 3⅜ miles, 48° 38′; cupola of farmhouse, 3⅛ miles, 71° 22′; north flagstaff on Love Point Hotel, 3⅝ miles, 95° 33′; nail in blaze in 15-inch oak tree, 300 yards, 192° 52′; nail in blaze in 12-inch gum tree, 250 yards, 203° 05′; nail in blaze in 15-inch oak tree, 200 yards, 246° 12′; north cupola of barn, ⅝ mile, 287° 21′; lone tree on Cedar Point, 1⅞ miles, 310° 29′.

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Amour (Queen Annes County, C. C. Yates, 1909).—On the northeast shore of Kent Island, west of the entrance to Chester River, about ¼ mile southeast of Love Point and ⅜ mile north of Love Point Landing, on a sand and marsh point, about 2 feet above high water, 25 yards inshore, and 55 yards north of a fishing shack. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 3-inch cedar tree, 12.46 meters (40.9 feet), 28° 25′; nail in blaze in 4-inch cedar tree, 11.30 meters (37.1 feet), 59° 52′; nail in blaze in 6-inch cedar tree, 38.88 meters (127.6 feet), 148° 44′; west gable of house on East Neck, 3¾ miles, 261° 42′; north gable of barn, 3¼ miles, 268° 12′; left tangent of Kent Island Landing, 1¾ miles, 346° 41′; northeast corner of fishing shack, 57 yards, 354° 20′.

Macum (Queen Annes County, C. C. Yates, 1909).—On the southern shore of Chester River, on Kent Island, about 4½ miles south of Love Point Light, 2½ miles south-southeast of Love Point Landing, and ¼ mile north-northwest of Macum Creek, in a cultivated field, about 7 feet above high water, 25 yards inshore, and 16 yards south of two cedar trees at edge of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: East chimney of brick house, ¼ mile, 16° 18′; east chimney of house, 1 mile, 32° 50′; cupola on house, 1⅜ miles, 42° 11′; east chimney of house, ⅝ mile, 45° 37′; north chimney of house, 400 yards, 77° 35′; lone cedar tree, 500 yards, 86° 27′; nail in blaze in 4-inch cedar tree, 30.98 meters (101.6 feet), 134° 33′; east gable of wharf house on Kent Island Landing, 1½ miles, 159° 47′; flagstaff on wharf house on Love Point Landing, 3⅛ miles, 162° 22′; nail in blaze in 6-inch persimmon tree, 22.24 meters (73.00 feet), 237° 22′.

Muddy (Queen Annes County, C. C. Yates, 1909).—On the southern shore of Chester River, on Long Point, between Muddy Creek and Jackson Creek, about 2¼ miles southwest of Cedar Point and 3½ miles west of Queenstown, on marsh land covered with myrtle bushes, about 2 feet above high water, 7 yards inshore, 25 yards southwest of extreme end of point, and 70 yards north of group of pine trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 8-inch pine tree, 63 yards, 12° 32′; nail in blaze in 12-inch pine tree, 67 yards, 34° 44′; east chimney of house, 2¾ miles, 186° 13′; lone pine tree on Cedar Point, 2¼ miles, 204° 55′; cupola on barn, 2¼ miles, 266° 12′; west gable of barn, 1¾ miles, 285° 52′; chimney of house, 1¼ miles, 297° 58′; north gable of wharf house on Jackson Creek Landing, 1 mile, 330° 40′; north gable of house, 1¼ miles, 333° 29′; chimney of small house, ¾ mile, 354° 15′.

Bluebeard (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of Chester River, on point at entrance to small creek, about ⅝ mile northeast of Blunt Creek and 1 mile southwest of entrance to Queenstown Creek, on a low sand beach, about 1 foot above high water, 5 yards inshore, 2 yards east of a small persimmon tree, 55 yards northeast of a small stream, and 200 yards north-northeast of a pond. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 6-inch oak tree, 125 yards, 42° 11′; cupola on barn, 1½ miles, 50° 57′; east chimney of house, 1½ miles, 51° 31′; north gable of Jackson Creek Landing house, 2⅜ miles, 62° 18′; south gable of house, 2⅞ miles, 144° 10′; east chimney of house, 2⅜ miles, 202° 30′; black beacon at entrance to Queenstown Creek, 1 mile, 222° 31′; nail in blaze in 4-inch swamp-oak, 10.60 meters (34.8 feet), 254° 08′; nail in blaze in 18-inch chestnut tree, 150 yards, 329° 41′.

Rain (Kent County, C. C. Yates, 1909).—On the western shore of Chester River, on Hall Point, about 1⅝ miles south-southeast of Bogle Wharf, about 5 feet above high water, 3 yards north of shore, and 20 yards northwest of extreme end of point. Station mark is center of 2-inch tile pipe projecting 4 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Under this is placed a subsurface mark, being the center of a 2-inch tile pipe, note 17. The reference mark is 29.84

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meters (97.9 feet), from the station in azimuth 114° 39′. Other distances and azimuths are as follows: Cupola on barn, 2⅞ miles, 12° 38′; chimney of fishing shack, ⅞ mile, 80° 17′; nail in blaze in 10-inch pine tree, 15.45 meters (50.7 feet), 98° 29′; nail in blaze in 10-inch pine tree, 18.09 meters (59.4 feet), 125° 49′; south gable of house, 1½ miles, 152° 11′; right tangent of piles of Bogle wharf, 1⅝ miles, 165° 42′; Williams's water tank, 2 miles, 234° 42′; black beacon at entrance to Queenstown Creek, 1½ miles, 296° 44′; cupola on barn, 1¾ miles, 317° 33′; chimney of house, 2¾ miles, 349° 50′.

Blakeford (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of Chester River, about ⅜ mile north of Blakeford Point at the entrance to Queenstown Creek, about 15 feet above high water, 8 yards inshore, 2 yards back from top of bank with uniform slope to beach, 25 yards north of gully, and 25 yards south of large sycamore tree at foot of slope. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 3 inches above surface of ground. Subsurface mark is center of 2-inch pipe, note 17. Distances and azimuths to various points of reference are as follows: First black beacon at entrance to Queenstown Creek, ½ mile, 39° 52′; chimney of fishing shack on Cedar Point, 2⅞ miles, 97° 29′; nail in blaze in 4-inch cedar tree, 13.31 meters (43.7 feet), 188° 15′; northwest corner of house in woods, 300 yards, 260° 42′; west gable of small house, ⅜ mile, 279° 22′; west gable of large barn, ⅝ mile, 320° 44′; west gable of house, ¾ mile, 340° 23′; northeast corner of elevator at Queenstown, ⅝ mile, 344° 24′; nail in blaze in 15-inch ash tree, 21.30 meters (69.9 feet), 352° 03′.

Break (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of Chester River, on Break Point, about ⅛ mile north of north side of entrance to Tilghmans Creek, in a cultivated field, about 5 feet above high water, 13 yards inshore, 4 yards from edge of bank, 200 yards north of extreme end of point, and 300 yards west of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of house, 3⅜ miles, 14° 26′; chimney of Greens fishing shack, 1½ miles, 61° 16′; south chimney of house, 2⅛ miles, 80° 20′; east gable of house, 2⅛ miles, 108° 01′; right tangent of piles of Bogle Wharf, 1⅝ miles, 110° 08′; east chimney of house, 2½ miles, 128° 13′; Williams's water tank, ¼ mile, 177° 36′; knob on door of fishing shack, ¼ mile, 326° 36′; north chimney of house at Queenstown, 2½ miles, 343° 33′.

Overton (Kent County, C. C. Yates, 1909).—On the western shore of Chester River, on north side of entrance to Durdin Creek and about 100 yards south of Bogle Wharf, on marshland, about 1 foot above high water, 4 yards inshore, 250 yards southeast of Bogle store, and 300 yards west of Bogle Wharf house. Station mark is center of 2-inch tile pipe projecting 2 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 11.26 meters (36.9 feet) from station in azimuth 73° 06′. Other distances and azimuths are as follows: Chimney of Bogle's store, 250 yards, 106° 04′; south gable of barn, 2⅞ miles, 180° 59′; south gable of barn, 3 miles, 194° 08′; left tangent of piles at Bogle Wharf, 300 yards, 250° 04′; chimney of house, 2½ miles, 296° 12′; lower west gable of Queenstown elevator, 3½ miles, 315° 08′; north gable of house, 3¾ miles, 317° 14′; right tangent of woods on Hail Point, 1⅜ miles, 345° 46′.

Fir (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of Chester River, on Piney Point, about 1⅝ miles north-northwest of Break Point and ½ mile west of Piney Cove, on marshland at the extreme end of Piney Point, about on level with high water, and 4 yards east of shore. Station mark is center of 2-inch tile pipe with top flush with surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. It is 10.45 meters (34.3 feet) from station in azimuth 289° 17′. Other distances and azimuths are as follows: Chimney of fishing shack, 2¾ miles, 30° 37′; right tangent of piles of Bogle Wharf, 1¼ miles, 50° 37′; chimney of house, 1½ miles, 56° 04′; south chimney of house, 1½ miles, 114° 30′; north chimney of house, 2¼ miles, 149° 50′; west chimney of house, 3 miles, 156° 56′; west gable of barn, 3⅛ miles, 178° 26′; left tangent of woods, ¾ mile, 205° 33′; Williams's water tank, 1¼ miles, 318° 37′.

Gordon (Queen Annes County, C. C. Yates, 1909).—On the eastern side of Chester River, about 55 yards offshore, ¾ mile southwest of entrance to

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Reeds Creek and ⅞ mile north-northeast of Piney Point. Station is in about 3 feet of water at high tide, and is 300 yards southwest of end of woods and cultivated field. Station mark is nail in 2 by 4 inch pine stub driven with top to high water. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 57.49 meters (188.6 feet) from station in azimuth 288° 45′. Other distances and azimuths are as follows: Left tangent of piles of Bogle Wharf, 2⅛ miles, 40° 41′; east gable of barn, 2 miles, 67° 59′; south chimney of house, 2 miles, 128° 48′; west chimney of Harris's house, 2¾ miles, 143° 57′; south gable of Strong's tenant house, 3 miles, 154° 57′; south chimney of house, 3 miles, 170° 43′; spindle on Brown's house, 3½ miles, 192° 20′; south gable of corncrib, 3 miles, 222° 54′; nail in blaze in 10-inch pine tree, 57.93 meters (190.1 feet), 277° 57′; nail in blaze in 18-inch pine tree, 57.02 meters (187.1 feet), 312° 14′.

Langford (Kent County, C. C. Yates, 1909).—On the western shore of Chester River, on Nichols Point, at east side of entrance to Langford Creek, on a sandy point among persimmon trees, about 2 feet above high water, 12 yards inshore, and 200 yards south of a marsh. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: East chimney of house, 2½ miles, 56° 26′; chimney of small house, 2¼ miles, 67° 08′; nail in blaze in 6-inch persimmon tree, 4.59 meters (15.06 feet), 82° 44′; each chimney of house, 1 mile, 98° 08′; south gable of barn, 1⅛ miles, 126° 34′; south chimney of house, 1½ miles, 151° 43′; chimney of house, 1½ miles, 163° 21′; nail in blaze in 6-inch persimmon tree, 2.23 meters (7.32 feet), 229° 20′; nail in blaze in 4-inch persimmon tree, 7.63 meters (25.03 feet), 297° 57′; northwest corner of Earle's bathhouse, 1¾ miles, 309° 41′; cupola on barn, 2 miles, 343° 07′; north gable of house, 2¼ miles, 357° 38′.

Quaker (Kent County, C. C. Yates, 1909).—On the western shore of Chester River in Cliff Bight, about ¾ mile north of Nichols Point, on marshland, about 3 feet above high water, 8 yards northwest of shore, 8 yards southeast of a wire fence and a row of pear trees, and 6 yards south of a group of persimmon trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North gable of house near Reeds Creek, 3¼ miles, 3° 05′; right tangent of woods on Gordon Point, 3½ miles, 15° 19′; lone oak tree, ½ mile, 48° 24′; nail in blaze in 6-inch hackberry tree, 4.81 meters (15.78 feet), 103° 50′; nail in blaze in 8-inch persimmon tree, 3.43 meters (11.25 feet), 220° 00′; west chimney of house, ⅞ mile, 252° 21′; west gable of barn, 2½ miles, 275° 46′; left tangent of Spaniard Wharf, 1¼ miles, 284° 58′; northeast corner of Earle's house, 2 miles, 330° 49′.

Brown (Kent County, C. C. Yates, 1909).—On the northwestern shore of Chester River, on Cliffs Point, between Cliffs Bight and Commegys Bight, about ¼ mile west of Cliffs Landing, in a cultivated field, about 12 feet above high water, 25 yards north of shore, 7 yards north of edge of bank, and 45 yards southeast of a large cherry tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North gable of barn, 3½ miles, 15° 40′; nail in blaze in 5-inch locust tree, 13.55 meters (44.5 feet), 57° 21′; nail in blaze in 15-inch walnut tree, 14.13 meters (46.4 feet), 109° 24′; east gable of house, 300 yards, 121° 09′; east gable of barn, 300 yards, 234° 18′; west chimney of house, 1½ miles, 238° 47′; northwest corner of Martin's shack, 77 yards, 243° 17′; west gable of wharf house, ¼ mile, 255° 41′; west gable of barn, 2¼ miles, 265° 03′; west chimney of house, 1¾ miles, 283° 09′; north gable of small fishing shack, ¾ mile, 342° 18′.

Evans (Queen Annes County, C. C. Yates, 1909).—On the southeastern shore of Chester River, on Upper Spaniard Point, about ⅝ mile south of Cliffs Landing, and ⅛ mile northeast of Spaniard Wharf, on marshland, about 1 foot above high water, 10 yards north of shore, and 200 yards east of end of Spaniard Wharf. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Lone 6-inch walnut tree 200 yards, 26° 04′; south gable of fishing shack

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near shore, ⅛ mile, 55° 47′; "*Spaniard Wharf 1896*" (see index), 2.49 meters (8.17 feet), 44° 36′; right tangent piles at end of Spaniard Wharf, 250 yards, 87° 10′; north chimney of house, 1½ miles, 109° 13′; west chimney of house, 1⅛ miles, 132° 00′; chimney of Martin's cabin, ¾ mile, 139° 07′; north gable of Cliff's Landing house, ¾ mile, 154° 18′; east chimney of house, ⅞ mile, 167° 15′; north gable of barn, 1¾ miles, 196° 10′; east gable of barn, 1⅛ miles, 228° 18′; north gable of barn, 2¼ miles, 237° 50′; east gable of barn, 1¼ miles, 268° 26′.

Stratton (Kent County, C. C. Yates, 1909).—On the northwestern shore of Chester River, at west side of entrance to Commegys Bight, near Cliffs Landing, and about ¼ mile northeast of Cliffs Point, on marshland, about on level with high water, 5 feet north of shore, and 21 yards southwest of entrance to a small creek. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North gable of house, 3 miles, 17° 56′; pine tree on line with bulkhead of wharf, 100 yards, 58° 22′; north chimney of house, 400 yards, 170° 30′; north gable of Westcott's barn, 1¼ miles, 223° 51′; west gable of barn, 1¼ miles, 244° 25′; cupola on barn, 2 miles, 271° 43′; west gable of corncrib, 1½ miles, 287° 20′; southwest corner of wharfhouse, 100 yards, 345° 57′.

Chester (Queen Annes County, C. C. Yates, 1909).—On the southeastern shore of Chester River, about ¾ mile east of Upper Spaniard Point and ⅞ mile south of Deep Point, in a low meadow, about 2 feet above high water, 10 yards south of shore, 2 yards south of board and wire fence, 2 yards east of rail fence, and 35 yards northwest of gate to front yard of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 12-inch locust tree, 24.18 meters (79.3 feet), 68° 43′; south chimney of house, 2¼ miles, 106° 09′; east gable of Cliffs Landing house, 1⅛ miles, 123° 26′; east gable of house, 1½ miles, 134° 59′; chimney of house, 1½ miles, 151° 35′; south chimney of Westcott's house, 1⅝ miles, 176° 31′; west gable of barn, 1 mile, 185° 05′; left tangent of piles of Indiantown Wharf, 1½ miles, 216° 29′; south cupola of barn, 1¼ miles, 239° 25′; west chimney of Emory house, ½ mile, 258° 33′; west chimney of Emory's tenant house, 100 yards, 318° 04′; nail in blaze in 6-inch persimmon tree, 11.67 meters (38.3 feet), 347° 21′.

Corpse (Queen Annes County, C. C. Yates, 1909).—On the southeastern shore of Chester River, about ⅜ mile southeast of Deep Point, 1½ miles east-northeast of Spaniard Wharf and ⅞ mile southwest of Indiantown Wharf, on a sanded marsh strip, about 1 foot above high water, 3 yards east of shore, 18 yards south-southeast of a point, 43 yards north by east of another point, and ⅛ mile west of a large house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney outside of old wharf, ⅞ mile, 38° 31′; right tangent of Spaniard Wharf, 1½ miles, 69° 53′; chimney of house near Cliffs Landing, 1¾ miles, 101° 07′; right peak of house on Deep Point, ½ mile, 123° 12′; left one of two chimneys on south end of brick house, 1 mile, 186° 27′; left tangent of Indiantown Wharf ⅞ mile, 212° 41′; chimney of ell of house near Indiantown Wharf, ⅞ mile, 221° 17′; left tangent of large house, ¼ mile, 267° 35′; right chimney of house, ⅞ mile, 337° 19′.

Thorn (Kent County, C. C. Yates, 1909).—On the northwestern shore of upper Chester River, opposite White Cove, near Westcott Wharf, and about ¾ mile northeast of Deep Point, in a cultivated field, about 6 feet above high water, 15 yards northwest of shore, 5 yards southwest of corner of board fence, 60 yards south-southeast of a brick house, and 42 yards southwest of piles of old wharf at shore line. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of small house, 1¾ miles, 22° 25′; near corner of Massey's house, ⅛ mile, 71° 56′; nail in blaze in 6-inch peach tree, 13.74 meters (45.1 feet), 147° 13′; nail in blaze in 3-inch fence post, 5.35 meters (17.55 feet), 201° 43′; left tangent of Ashland Wharf, ⅝ mile, 246° 37′; corner post of fence (4 inches in diameter), 4.33 meters (14.21 feet), 256° 39′; cupola of barn, ⅞ mile, 327° 29′.

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Indian (Queen Annes County, C. C. Yates, 1909).—On the southeastern shore of Chester River, near Indiantown Wharf, about ¾ mile east-northeast of Deep Point, about 2 feet above high water, 10 yards east of shore end of Indiantown Wharf, 10 yards southeast of shore, 21 yards north of curved fence of yard of small house, and 40 yards north by west of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right tangent of curved fence, 40 yards, 2° 49′; chimney of large house, ½ mile, 13° 07′; right tangent of Spaniard Wharf, 2 miles, 60° 49′; right chimney of Westcott bungalow, ¾ mile, 73° 04′; near corner of wharf house, 100 yards, 110° 59′; left tangent of Massey's brick house, ½ mile, 134° 57′; large chimney of house beyond trees, 1 mile, 184° 17′; chimney of small house near Quaker Neck Wharf, 1¼ miles, 199° 33′; left tangent of Ashland Wharf, ⅝ mile, 214° 28′; lone cedar tree, 120 yards, 220° 33′; nail in blaze in 12-inch cedar tree, 31.24 meters (102.5 feet), 325° 53′; near corner of wharf, ⅝ mile, 326° 33′; nail in blaze in 10-inch cedar tree 18.68 meters (61.3 feet), 344° 08′; nail in blaze in 20-inch cedar tree, 30.92 meters (101.4 feet), 357° 50′.

Shippen (Kent County, C. C. Yates, 1909).—On the northwestern shore of upper Chester River, opposite Ashland Wharf, on a sand and marsh point at southern side of entrance to Shippen Creek, about 1 foot above high water, 6 yards southwest of shore, 12 yards northeast of shore, 15 yards north of end of sand point, and 25 yards southeast of trees along edge of cultivated field. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Tangent of piles at Indiantown Wharf, ⅝ mile, 12° 56′; tangent of Deep Point, 1¼ miles, 40° 45′; near chimney of house, ½ mile, 48° 01′; nail in blaze in 12-inch pear tree, 22.59 meters (74.1 feet), 121° 57′; nail in blaze in 10-inch cedar tree, 20.70 meters (67.9 feet), 151° 07′; near peak of barn, ⅝ mile, 200° 05′; smoke pipe on Quaker Neck Wharf house, ⅝ mile, 218° 17′; chimney on left end of house, 2½ miles, 236° 58′; peak of barn, 2¼ miles, 245° 10′; chimney on end of house, 2¼ miles, 246° 20′; chimney on right end of house, 1 mile, 272° 44′; left tangent of piles of Ashland Wharf, ¼ mile, 288° 01′; chimney on near end of house, 1 mile, 297° 29′; spindle on barn cupola, 1 mile, 354° 19′.

Ashland (Queen Annes County, C. C. Yates, 1909).—On the southeastern shore of upper Chester River, near Ashland Wharf, and about ¼ mile northeast of White Cove, about 1 foot above high water, 5 yards southeast of shore, 32 yards southwest of a fence, and 20 yards west-northwest of persimmon trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of summerhouse, ½ mile, 39° 32′; right tangent of Indiantown Wharf, ½ mile, 49° 12′; chimney on ell of Massey house, ⅝ mile, 81° 14′; chimney of small house, ¾ mile, 160° 14′; peak of Quaker Neck Wharf House, ¾ mile, 189° 11′; nail in blaze in fence post (4 inches diameter), 28.80 meters (94.5 feet), 214° 41′; nail in blaze in 3-inch persimmon tree, 22.81 meters (74.8 feet), 290° 51′; nail in blaze in 3-inch persimmon tree, 17.29 meters (56.7 feet), 333° 02′.

Burns (Queen Annes County, C. C. Yates, 1909).—On the southeastern shore of upper Chester River, opposite Quaker Neck Wharf, about ½ mile northeast of Ashland Wharf, in meadowland, about 1 foot above high water, 10 yards southeast of shore, 50 yards southwest by south of point, 145 yards northeast by east of fence, and 200 yards northwest of another fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 7 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left chimney of house on Ashland Road, 1 mile, 9° 19′; chimney of house on Westcott Wharf, 1¼ miles, 63° 58′; south peak of large barn, ⅝ mile, 124° 10′; near chimney of Quaker Neck Wharf house, ½ mile, 134° 42′; left chimney of old house, 154° 03′; left tangent of hook-shaped point of marsh, ½ mile, 228° 44′; near peak of house, 1½ miles, 241° 47′; windmill, ¾ mile, 279° 44′; chimney of house, 1 mile, 326° 18′.

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Oyster (Kent County, C. C. Yates, 1909).—On the northwestern shore of upper Chester River, about ⅛ mile northeast of Quaker Neck Wharf, and ½ mile southwest of entrance to Jarrett Creek, in a cultivated field, about 20 feet above high water, 8 yards west-northwest of edge of bank, 9 yards north-northwest of edge of bank, 25 yards northeast by north of a cedar tree, 100 yards southwest of low land, and 115 yards east of fence near a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Cupola on barn, 1¾ miles, 11° 38′; nail in blaze in 7-inch cedar tree, 24.90 meters (81.7 feet), 31° 01′; smoke pipe of wharf house, ⅛ mile, 38° 51′; left chimney of house, 130 yards, 68° 31′; left chimney of old house on near side of Jarretts Creek, ⅜ mile, 165° 17′; chimney of house among trees, 1¼ miles 196° 54′; left peak of Bookers Wharf house, 1⅛ miles, 268° 48′; cupola, 1 mile, 298° 02′; windmill, ⅞ mile, 298° 43′; left chimney of house, 1⅜ miles, 355° 02′.

Starkley (Queen Annes County, C. C. Yates, 1909).—On the southeastern shore of upper Chester River, about ¾ mile east of Quaker Neck Wharf, and ½ mile southwest of Bookers Wharf, in meadowland, about 1 foot above high water, 10 yards east by south of shore, 33 yards south of first cut in shore, 140 yards north by west of a fence, 145 yards southwest of point where another fence meets shore, and 275 yards south of large cedar tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Weather vane on barn, ½ mile, 21° 35′; left chimney of Quaker Neck Wharf house, ⅞ mile, 100° 35′; right peak of barn, 1 mile, 128° 16′; peak of middle dormer window of large house, ¾ mile, 176° 03′; left peak of large house, 1¼ miles, 225° 22′; left peak of Bookers Wharf house, ½ mile, 249° 22′; large cedar tree, 275 yards, 252° 44′; spindle on left cupola of barn, ½ mile, 323° 33′.

Jarrett (Kent County, C. C. Yates, 1909).—On the northwestern shore of upper Chester River, about ½ mile southwest of Melton Point, ¼ mile east of entrance to Jarrett Creek, and ⅝ mile west of Bookers Wharf. Station is about 1 foot above high water, 14 yards north of shore, 50 yards from a short fence at shore, 65 yards west of entrance to slough, and 175 yards from another fence, Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Weather vane on cupola of barn, 1 mile, 7° 22′; chimney of house near Indiantown Wharf, 1⅞ miles, 37° 03′; large chimney of Massey brick house, 1⅞ miles, 50° 50′; smoke pipe of Quaker Neck wharf house, ¾ mile, 64° 24′; peak of middle dormer window of large house, ½ mile, 180° 41′; left peak of house on ridge, 1½ miles, 243° 09′; right peak of small house, ¾ mile, 289° 32′; west peak of Bookers Wharf house, ⅝ mile, 290° 24′; spindle on left cupola of barn, ¾ mile, 337° 35′.

Booker (Queen Annes County, C. C. Yates, 1909).—On the southeastern shore of upper Chester River, about 175 yards northeast of Bookers Wharf, and ½ mile south of Melton Point, on sanded marshland, about 1 foot above high water, 6 yards southeast of shore, 13 yards east by south of a small point, 30 yards southwest by south of locust trees, 125 yards northwest by north of house on 20-foot bank, and 140 yards northwest of a creek. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of house on bank, 125 yards, 1° 43′; right peak of Bookers Wharf house, 175 yards, 58° 42′; left chimney of Quaker Neck Wharf house, 1½ miles, 85° 41′; near peak of house in woods, ¾ mile, 121° 18′; peak of middle dormer window on left side of house among trees, ⅞ mile, 136° 00′; chimney of house, 1 mile, 181° 33′; nail in blaze in 4-inch locust tree 29.46 meters (96.6 feet) 250° 19′.

Melton (Kent County, C. C. Yates, 1909).—On the western shore of Chester River, about ½ mile north of Bookers Wharf, on Melton Point, about 2 feet above high water, 4 yards south of shore, 40 yards north of shore, 32 yards northwest of extreme end of point, 2 yards northeast of marsh, and 125 yards east-southeast of clump of cedar trees. Station mark is center of standard

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cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Smoke pipe of Quaker Neck Wharf house, 1¼ miles, 63° 08′; near chimney of house with dormer windows, ⅝ mile, 113° 12′; right chimney of house on knoll, 1½ miles, 143° 39′; right peak of roof of building, ⅝ mile, 194° 29′; left chimney of house, ⅞ mile, 244° 59′; northwest chimney of house on bank near Bookers Wharf, ½ mile, 345° 42′; northwest peak of Bookers Wharf house, ½ mile, 353° 00′.

Journey (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of upper Chester River, opposite Melton Point, about ½ mile northeast of Bookers Wharf, in cultivated land, about 20 feet above high water, 3 yards southeast by east of edge of bank, south of large elm tree, and northeast of several sycamore and locust trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 8-inch sycamore tree, 21.00 meters (68.9 feet), 23° 20′; right peak of Bookers Wharf house, ½ mile, 32° 39′; smoke pipe of Quaker Neck Wharf house, 1⅝ miles, 69° 36′; near peak of house with three dormer windows, ⅞ mile, 105° 16′; right chimney of 2½-story house, 1½ miles, 135° 17′; nail in blaze in 10-inch elm tree, 22.70 meters (74.5 feet), 162° 43′; large cedar tree in yard near fence, 400 yards, 215° 45′; near peak of old house, 200 yards, 346° 31′.

Cake (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of upper Chester River, about ⅜ mile north of Melton Point and ⅞ mile north of Bookers Wharf, in a marsh, about 1 foot above high water, 13 yards east-southeast of shore, 35 yards northeast by north of shore, 35 yards northeast of rounded point, 150 yards north-northwest of entrance to a creek, 200 yards south-southwest of buildings, and 300 yards south of a house among trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Northwest peak of Bookers Wharf house, ⅞ mile, 2° 24′; south chimney of near one of twin houses, ¾ mile, 106° 20′; east chimney of brick house among trees on ridge, 1½ miles, 132° 47′; south peak of building, ¼ mile, 193° 12′; large lone tree on ridge, ¼ mile, 262° 41′; left chimney of large house, ¼ mile, 288° 10′; chimney on ell of house to left of trees, ⅝ mile, 327° 11′.

Pomona (Kent County, C. C. Yates, 1909).—On the western shore of upper Chester River, about ⅝ mile northwest of Melton Point, and ½ mile south of entrance to Browns Creek, among small trees near edge of cultivated field, about 12 feet above high water, 6 yards west of edge of bank, and 8 yards from top of slope to marsh. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 8-inch cedar tree, 12.18 meters (40.0 feet), 11° 10′; large cherry tree, 300 yards, 92° 02′; nail in blaze in 3-inch locust tree, 5.23 meters (17.16 feet), 188° 58′; windmill, 2 miles, 226° 59′; right corner of house, 1¼ miles, 246° 19′; large lone tree in field, 1¼ miles, 267° 50′; left chimney of large house, 1½ miles, 278° 17′; ell of house to left of trees, 1½ miles, 301° 18′; nail in blaze in 4-inch locust tree, 7.74 meters (25.39 feet), 341° 41′.

Bill (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of upper Chester River, about ¾ mile north of Melton Point and nearly opposite Browns Creek, in a grove of elm, ash, and oak trees on north side of a point, about 20 feet above high water, 7 yards south-southeast of edge of bank, 30 yards east-northeast of a small house, and 40 yards west-southwest of a fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 10-inch elm tree, 12.37 meters (40.6 feet), 5° 03′; nail in blaze in 9-inch elm tree, 9.92 meters (32.55 feet), 53° 42′; nail in blaze in 24-inch oak tree, 2.95 meters (9.68 feet), 113° 48′; east chimney of brick house, ¾ mile, 121° 48′; peak of sharp roof, ½ mile, 140° 12′; spindle on peak of house of Rolphs Wharf, 2¾ miles, 231° 57′; nail in blaze in 8-inch tree, 7.60

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meters (24.93 feet), 264° 44′; left chimney of house on ridge, ¾ mile, 306° 36′; nail in blaze in 15-inch tree, 12.30 meters (40.4 feet), 327° 44′; chimney on ell of house, 1 mile, 333° 51′; right peak of Bookers Wharf house, 1¼ miles, 356° 23′.

Taste (Kent County, C. C. Yates, 1909).—On the western shore of upper Chester River, about 1 mile northwest of Melton Point, on a marsh point at east side of entrance to Browns Creek, about 5 yards north of shore of Chester River, 30 yards south of shore of Browns Creek, 50 yards southwest of point of shore of Browns Creek, and 55 yards west-southwest of cedar trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: West chimney of left one of twin houses, ⅜ mile, 14° 33′; right chimney of brick house, ¾ mile, 138° 27′; largest cedar tree in clump (15 inches in diameter), 54 yards, 222° 42′; windmill, 1¾ miles, 239° 25′; chimney of house, 1¾ miles, 257° 34′; left chimney of house on ridge, 1¼ miles, 301° 12′; chimney on ell of house, 1¾ miles, 316° 34′.

Make (Kent County, C. C. Yates, 1909).—On the western shore of upper Chester River, about 1⅛ miles north of Melton Point, and ⅜ mile northeast of entrance to Browns Creek, in pasture land, about 2 feet above high water, 10 yards north of shore, 110 yards west of tangent of point of curve of shore, and 325 yards southeast of farm buildings behind trees. Station mark is center of standard cement monument of Maryland Sheel Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Spindle on cupola on barn, 2¼ miles, 0° 08′; left chimney on left one of twin houses, ¾ mile, 36° 31′; west chimney of house, 1 mile, 108° 43′; south peak of building in woods, 1 mile, 188° 17′; windmill, 1½ miles, 241° 35′; near peak of canning house at Wilmers Wharf, 1⅜ miles, 259° 39′; chimney on ell of house on ridge, 1¼ miles, 286° 58′; left chimney of house on ridge, 1½ miles, 321° 18′.

Broad (Kent County, C. C. Yates, 1909).—On the northwestern side of upper Chester River, about 1 mile northeast of entrance to Browns Creek, on western end of a marsh island at entrance to Broad Creek, about 9 yards north of shore, 43 yards south of shore, and 52 yards east-southeast of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Peak of middle dormer window of large house, 1½ miles, 32° 31′; east peak of large barn to left of large tree, 1 mile, 90° 57′; near peak of cannery, 1⅛ miles, 267° 40′; chimney on ell of house on ridge, 2¼ miles, 311° 32′; right peak of barn, 1 mile, 358° 49′.

Down (Queen Annes County, C. C. Yates, 1909).—On the southeastern shore of upper Chester River, about 1 mile southwest of entrance to Southeast Creek and 1 mile east of entrance to Browns Creek, on a small rounded point of sanded marsh, about 1 foot above high water, 5 yards south of shore, 40 yards east by south of an inlet, and 95 yards west of a fence beyond trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 3-inch pear tree, 14.34 meters (47.1 feet), 62° 22′; east peak of large barn, 1 mile, 107° 29′; chimney of house, 1½ miles, 149° 45′; right peak of small house near Rolphs Wharf, 2¼ miles, 227° 46′; left peak of taller of two barns, ½ mile, 271° 09′; nail in blaze in 5-inch cedar tree, 52.50 meters (172.2 feet), 305° 58′; nail in blaze in 5-inch cedar tree, 47.18 meters (154.8 feet), 327° 18′.

Nils (Kent County, C. C. Yates, 1909).—On the northwestern shore of upper Chester River, about ¾ mile west of entrance to Southeast Creek and ½ mile east of island at entrance to Broad Creek, in edge of cultivated field, about 5 feet above high water, 4 yards north of shore, 110 yards east by south of tangent of point of curve of shore, and 450 yards southwest of a house and windmill. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: West chimney of large house on ridge, 1 mile, 12° 36′; near peak of roof of house on hill, 1 mile, 37° 26′; weather vane on southwest peak of

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largest barn on ridge, 1½ miles, 249° 50′; north peak of Wilmers Wharf cannery, ½ mile, 276° 07′; chimney of house near Wilmers Wharf, ½ mile, 280° 56′.

Julius (Queen Annes County, C. C. Yates, 1909).—*On the southeastern shore* of upper Chester River, about ½ mile southwest of Wilmers Wharf, on a sanded grass point fringed with trees, and about 2 yards from shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 8-inch cedar tree, 4.30 meters (14.11 feet), 14° 18′; nail in blaze in 9-inch cedar tree, 13.11 meters (43.0 feet), 41° 33′; chimney of left one of twin houses, 1½ miles, 66° 49′; near peak of large barn, 1 mile, 93° 41′; middle one of three large trees, ⅞ mile, 96° 02′; south chimney of house at Rolphs Wharf, 1⅝ miles, 221° 50′; weather vane on large barn, 1¼ miles, 232° 30′; northwest peak of Wilmers Wharf cannery, ⅜ mile, 244° 05′; nail in blaze in 8-inch cedar tree, 4.77 meters, 255° 04′.

Robertson (Kent County, C. C. Yates, 1909).—*On the northwestern shore* of upper Chester River, near Riverside Wharf, opposite entrance to Southeast Creek, about 2 feet above high water, 5 yards northwest of shore, 45 yards northeast of shore end of a wharf, and 100 yards southwest of point of land. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Weather vane on cupola on barn ¼ mile, 128° 15′; spindle on cupola on barn, ¼ mile, 132° 56′; spindle on peak of Rolph's lower wharf house, 1¼ miles, 231° 29′; weather vane on large barn, 1¾ miles, 241° 30′; cupola on old barn, 1½ miles, 282° 31′; chimney of house near Wilmers Wharf, ⅜ mile, 329° 11′; pinnacle on cupola on barn, ½ mile, 337° 15′; northwest peak of cannery, ¼ mile, 349° 41′.

Wilmers (Queen Annes County, C. C. Yates, 1909).—On the southeastern shore of upper Chester River, on southwest side of entrance to Southeast Creek, and about 175 yards northeast of Wilmers Wharf, on a sanded grass point between river and marsh, about 3 feet above high water, 7 yards east of shore, 5 yards southwest of shore, and 6 yards southeast of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right peak of Wilmers Wharf cannery, 175 yards, 49° 00′; chimney on near one of twin houses, 2⅛ miles, 65° 32′; east peak of large barn, 1½ miles, 87° 48′; cupola on Robertson barn, ½ mile, 143° 57′; flagpole on Rolphs Wharf, 1¼ miles, 214° 40′; weather vane on large barn, 1½ miles, 229° 57′; cupola on barn, 300 yards, 273° 33′; cupola on barn, ⅝ mile, 345° 31′.

Southeast (Queen Annes County, C. C. Yates, 1909).—On the southeastern shore of upper Chester River, on Deep Point, at northeastern side of entrance to Southeast Creek, about ¾ mile south-southwest of Rolphs Wharf, and ½ mile northeast of Wilmers Wharf, on cultivated land, about 15 feet above high water, 19 yards south of edge of bank, and 27 yards east by south of extreme point of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile, note 17. Distances and azimuths to various points of reference are as follows: Right peak of Wilmers Wharf cannery, ⅝ mile, 56° 20′; right tangent of Wilmers Wharf, ½ mile, 60° 43′; spindle on cupola on barn, ¾ mile, 95° 48′; weather vane on cupola on barn, ¾ mile, 96° 18′; near peak of long, small shanty, 2 miles, 176° 17′; left peak of large barn, 1¼ miles, 192° 25′; flagstaff on Rolphs Wharf house, ⅞ mile, 198° 40′; right peak of long barn, ¾ mile, 249° 32′; lightning rod between two chimneys on house, ⅞ mile, 306° 37′.

Thorsten (Kent County, C. C. Yates, 1909).—On the northwestern shore of upper Chester River, about ¾ mile northeast of Wilmers Wharf and ½ mile north of entrance to Southeast Creek, about 3 feet above high water, 12 yards northwest of shore, 10 yards northeast of short fence, and 4 yards southeast of lone cedar tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Spindle on cupola on left one of two barns at Wilmers Wharf, ¾ mile, 16° 46′; northwest peak of Wilmers Wharf cannery, ¾ mile, 29° 52′; nail in

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blaze in 10-inch cedar tree, 3.40 meters (11.15 feet), 119° 20′; northwest peak of large barn, 1¼ miles, 204° 11′; northwest peak of large barn, 1 mile, 220° 46′; flagstaff on Rolphs Wharf, ⅝ mile, 223° 10′; weather vane on very large barn, 1¼ miles, 247° 38′; west peak of barn behind wharf, 1 mile, 280° 40′; lightning rod to right of two chimneys of house, 1¾ miles, 310° 52′; nail in blaze in fence post, 8.85 meters (29.04 feet), 314° 52′; top point of roof of large brick house on ridge, 2¼ miles, 334° 43′.

Rolphs (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of upper part of Chester River, about 100 yards southeast of Rolphs Wharf, and ¾ mile north of entrance to Southeast Creek, on a grass bank between two large willow trees, about 6 feet above high water, 5 yards northeast of shore, 19 yards south-southwest of side gate to yard, and 7 yards southwest of a road 3 feet higher than the station. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Weather vane on middle of lower wharf house, 100 yards, 10° 35′; peak of Wilmers Wharf cannery, 1¼ miles, 37° 59′; flagstaff on Rolphs Wharf, 100 yards, 99° 52′; nail in blaze in 24-inch willow tree, 7.16 meters (23.49 feet), 110° 59′; chimney on ell of Story's house, 53 yards, 174° 29′; nail in blaze in 27-inch willow tree, 13.96 meters (45.8 feet), 243° 24′; chimney on ell of Story's house, 120 yards, 284° 49′; nail in blaze in 25-inch willow tree, 8.51 meters (27.92 feet), 332° 20′.

Blank (Kent County, C. C. Yates, 1909).—On the northwestern shore of upper Chester River, about ¼ mile west of Rolphs Wharf and ¾ mile north of entrance to Southeast Creek, on a grassy point about 2 feet above high water, 7 yards west of shore, 9 yards north of shore, 8 yards northwest of extreme end of point, and 40 yards from a dense clump of trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left peak of small house among trees, 1¾ miles, 7° 05′; spindle on barn cupola, 1¾ miles, 17° 43′; peak of middle dormer window of house, 1¼ miles, 174° 15′; peak of large barn, ⅝ mile, 236° 02′; flagstaff on Rolphs Wharf house, ¼ mile, 259° 04′; weather vane on wharf house, ¼ mile, 272° 56′; left peak of wharf house, ½ mile, 334° 07′.

Evans (Queen Annes County, S. Forney, 1909).—On the eastern side of Chester River, on a marshy point, the second point upriver from Rolphs Wharf, about 4 meters inside of high-water mark. The station is marked by a round black bottle buried 3.3 feet and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch draintile pipe at the surface of the ground, note 21. The reference mark is the center of neck of a white quart bottle buried 3.3 feet and a nail in concrete in the top of a 3-inch draintile at the surface of the ground, note 21a. It is 8.74 meters (28.67 feet) from the station in azimuth 276° 47′.

Pan (Kent County, S. Forney, 1909).—On the western shore of Chester River, on Skillet Point, the first sandy point upriver from Frying Pan Point, about 3 meters inside of high-water mark, and about 50 meters outside the bluff line that is covered with a thick growth of oak, hickory, and locust trees. The station is marked by a flat pint bottle buried 3 feet and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch draintile at the surface of the ground, note 21. The reference mark is a buried quart bottle and a nail in concrete in the top of a 3-inch draintile at the surface. It is 10.93 meters (35.9 feet) from the station in azimuth 96° 01′.

Chambers (Queen Annes County, S. Forney, 1909).—On the northern shore of Chester River, about 150 meters upriver from Chambers Wharf on a bluff about 4 feet above high water and 2 meters back from the edge of the bluff. The station is marked by a buried white quart bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch draintile at the surface of the ground, note 21. The reference mark is a quart bottle buried 3 feet and a nail in concrete in the top of a 3-inch draintile at the surface, note 21a. It is 7.82 meters (25.66 feet) from the station in azimuth 92° 05′.

Blind (Kent County, S. Forney, 1909).—On the southwest shore of Chester River, on a low, grassy point covered with brush, directly across the river from Chambers Wharf. Station is 10 meters back from high-water mark. It is marked by round black quart bottle buried 3 feet and a nail in concrete

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surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch draintile at the surface of the ground, note 21. The reference mark is a quart bottle buried 3 feet and a nail in concrete in the top of a 3-inch draintile flush with the surface of the ground, note 21a. It is 10.415 meters (34.17 feet) from the station in azimuth 92° 43'.6.

Skulk (Queen Annes County, S. Forney, 1909).—On the northeastern shore of Chester River, about 150 meters down river from Skulking Point, on a low, grassy shore, about 2 meters from high-water mark. Marsh grass grows back of the station. The station is marked by a buried bottle of white glass and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch draintile at the surface of the ground, note 21. The reference mark is a quart bottle buried 3 feet and a nail in concrete in the top of a 3-inch draintile, note 21a. It is 7.185 meters (23.57 feet) from the station in azimuth 122° 37'.9.

Emory (Kent County, S. Forney, 1909).—On the southwest side of Chester River, on a hill west of Piney Grove Wharf, on land belonging to a Mr. Emory, whose house stands about 300 meters southwest of the station. Station is about 25 meters back from high-water mark and about 30 feet above the river. The station is marked by a buried white quart bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch draintile at the surface of the ground, note 21. The reference mark is a quart bottle buried 3 feet and a nail in concrete in the top of a 3-inch tile drainpipe at the surface, note 21a. It is 8.95 meters (29.36 feet) from the station in azimuth 317° 01'.2.

Ing (Queen Annes County, S. Forney, 1909).—On the eastern shore of Chester River, near an old duck blind on a pebble beach, about 4 meters back from high-water line, with a bluff about 5 feet high, 10 meters inshore from the station. Scattering cedar trees line the bluff. The station is marked by a square white quart bottle buried 3 feet, and a nail in concrete surrounded by the letters "U. S. C & G. S." in the top of a 4-inch draintile at the surface of the ground, note 21. The reference mark is a buried quart bottle and a nail in concrete in the top of a 3-inch draintile at the surface of the ground, note 21a. It is 8.485 meters (27.84 feet) from the station in azimuth 254° 46'.4.

Pear (Kent County, S. Forney, 1909).—On the west side of Chester River, 2 meters from the edge of a 5-foot bluff, on the edge of a pear orchard, and 40 meters from the road leading south of Chestertown, parallel with the river. The station is marked by a buried white quart bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch draintile at the surface of the ground, note 21. The reference mark is a quart bottle buried 3 feet and a nail in concrete in the top of a 3-inch draintile at the surface, note 21a. It is 10.31 meters (33.8 feet) from the station in azimuth 357° 22'.5.

Radcliff (Kent County, S. Forney, 1909).—On the western shore of Chester River, on the south side of the fertilizer wharf at the southern side of entrance to Radcliff Creek. The station is marked by a buried white pint bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch draintile at the surface of the ground, note 21. The reference mark is a buried quart bottle and a nail in concrete in the top of a 3-inch draintile at the surface, note 21a. It is 10.105 meters (33.15 feet) from the station, in azimuth 101° 11'.

Skipper (Queen Annes County, S. Forney, 1909).—On the western side of Chester River, on property belonging to a Mr. Skipper, about 2 meters from high water, on edge of small bluff, and about 20 meters west of main bluff, which is about 12 feet above the river. Station is marked by round black quart bottle buried 3 feet and a nail in concrete in the top of a 4-inch drain-tile surrounded by the letters "U. S. C. & G. S.," top of tile even with surface of ground, note 21. Reference mark No. 1, nail in triangle cut in forked chestnut tree, is 22.24 meters (73.0 feet) from station in azimuth 216° 24'; reference mark No. 2, nail in concrete in top of 3-inch drain tile even with surface of ground, note 21a, is 7.865 meters (25.80 feet) from station in azimuth 299° 14'; reference mark No. 3, nail in triangle cut in tree, is 10.46 meters (34.3 feet) from station in azimuth 322° 00'.

Queen (Queen Annes County, S. Forney, 1909).—On the eastern shore of Chester River, on land owned by a Mr. Skipper, close to high-water line, and about 400 meters down river from the bridge across the river at Chestertown.

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The station is marked by a white quart bottle buried 3 feet and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch draintile at the surface, note 21. The reference mark is the neck of a quart bottle 3 feet below ground and a nail in concrete in the top of a 3-inch draintile at the surface of the ground, note 21a. It is 10.15 meters (33.30 feet) from the station and 220° 54′ to the right of a line to the M. E. Church spire, Chestertown.

Hope (Kent County, S. Forney, 1909).—On the northwest shore of Chester River, on the lawn in front of the residence of Hope Barroll, 5 meters from the river bank, about 15 meters from high-water mark, and 250 meters upriver from the Kent County end of the Chestertown Bridge. The station is marked by a buried square white quart bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch draintile at the surface of the ground, note 21. The reference mark is the center of the neck of a buried quart bottle and a nail in concrete in the top of a 3-inch draintile flush with the surface of the ground, note 21a. It is 10.615 meters (34.83 feet) from the station in azimuth 235° 27′.3′.

Anne (Queen Annes County, S. Forney, 1909).—On the eastern side of Chester River, on land belonging to Mr. Skipper, 50 meters inside the high-water mark, and 40 meters south of the road leading to Centerville, Md. The station is marked by a buried dark quart bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch draintile at the surface of the ground, note 21. The reference mark is a buried quart bottle and a nail in concrete in the top of a 3-inch draintile at the surface of the ground, note 21a. It is 9.855 meters (32.33 feet) from the station in bearing N. 75° W.

Trap (Queen Annes County, S. Forney, 1909).—On the eastern shore of Chester River, about 400 meters upriver from the eastern end of the Chestertown Bridge, on land belonging to Mr. Skipper, on a bluff 9 feet high, and 4 meters from the edge of the bluff. The station is marked by a buried brown quart bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch draintile at the surface of the ground, note 21. The reference mark is a quart bottle buried 3 feet and a nail in concrete in the top of a 3-inch draintile at the surface, note 21a. It is 10.32 meters (33.9 feet) from the station in azimuth 91° 22′.5.

Marsh (Kent County, S. Forney, 1909).—On the marsh, on the northwest shore of Chester River, nearly due east of Long Point, and 25 meters from high-water mark. The station is marked by a buried white quart bottle and a nail in concrete in the top of a 4-inch draintile surrounded by the letters "U. S. C. & G. S." at the surface of the ground, note 21. The reference mark is a buried quart bottle and a nail set in concrete in the top of a 3-inch draintile at the surface of the ground, note 21a. It is 8.32 meters (27.30 feet) from the station in azimuth 64° 25′.1.

Peach (Queen Annes County, S. Forney, 1909).—On the southeastern shore of Chester River, on what is called Peach Tree Point, just west of Rosin Creek, and about 4 meters back from high-water mark. The station is marked by a buried brown quart bottle and a nail in cement and surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch draintile at the surface of the ground, note 21. The reference mark is a buried quart bottle and a nail in cement in the top of a 3-inch draintile at the surface of the ground, note 21a. It is 8.05 meters (26.41 feet) from the station and 331° 17′ to the right of a line to the M. E. Church spire, Chestertown.

Kent (Kent County, S. Forney, 1909).—On the northwest shore of Chester River, opposite Peach Tree Point, on a low point of marsh, about 8 meters back from high-water mark. The station is marked by a buried brown quart bottle and a 60d. wire nail in concrete and surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch draintile at the surface of the ground, note 21. The reference mark is a buried quart bottle and a nail in concrete in the top of a 3-inch draintile at the surface of the ground, note 21a. It is 10.06 meters (33.0 feet) from the station in a direction 6° 47′ to the right of a line to the M. E. Church at Chestertown.

Lacy (Kent County, S. Forney, 1909).—On the northwest shore of Chester River, on a marsh point about 350 meters below the entrance to Morgan Creek, and about 4 meters from high-water mark. The station is marked by a nail in concrete in the top of a 4-inch draintile flush with the surface of the

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ground and surrounded by the letters "U. S. C. & G. S.," as described in note 21 except that there is no subsurface mark. The reference mark is a buried quart bottle and a nail in cement in the top of a 4-inch drain tile at the surface of the ground, note 21a. It is 5.85 meters (19.19 feet) from the station in azimuth 208° 09′.

Tree (Queen Annes County, S. Forney, 1909).—On the southeastern shore of Chester River, about 250 meters southwest of Pear Tree Point (Peach Tree Point) the point directly opposite the mouth of Morgan Creek. It is about 4 meters from high-water mark. Station marked by a buried white quart bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch drain tile, at the surface of the ground, note 21. The reference mark is a buried quart bottle and a nail in concrete in the top of a 3-inch drain tile at the surface of the ground. It is 9.405 meters (30.86 feet) from the station in azimuth 279° 16′.

Morris (Kent County, S. Forney, 1909).—On the northwest side of Chester River, about 2½ miles above Chestertown, on a marsh inside of point opposite Round Top Wharf, on land belonging to John Morris. It is near north end of marsh and about 200 meters in from high-water mark. Station marked by a buried brown quart bottle and a nail in concrete and surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch drain tile at the surface of the ground, note 21. Reference marks were established as follows: No. 1, a 4-inch triangle blazed on a 7-inch persimmon tree; a copper nail driven into the center of the blaze is 11.43 meters (37.5 feet) from station in azimuth 237° 14′. No. 2 is a 4-inch triangle blazed in the side of a 12-inch oak tree; two copper nails driven in the center of the blaze are 24.80 meters (81.4 feet) from the station in azimuth 19° 36′. No 3 is on a very large and bushy oak tree; it consists of two triangular blazes one being inverted over the other, so that their vertices coincide; a copper nail driven in at the junction of the vertices is 26.44 meters (86.7 feet) from the station in azimuth 82° 32′.

Round (Queen Annes County, S. Forney, 1909).—On the eastern shore of Chester River, on the high ground at Round Top Wharf, about halfway between the two wharves. Station marked by a white quart bottle set in cement 3 feet below the surface of the ground. Surface mark is a buried quart bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch drain tile at the surface of the ground, note 21. The reference mark is a buried quart bottle and a nail in concrete in the top of 3-inch drain tile at the surface of the ground, note 21a. It is 9.11 meters (29.9 feet) from the station in azimuth 154° 44′.

Possum (Queen Annes County, S. Forney, 1909).—On the southeastern shore of Chester River, on land belonging to W. I. Walker (farm rented to a Mr. Story) in a field on the west side of line fence, on the posts of which are placed the reference marks. Station is about 200 meters from high-water mark. It is marked by a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch drain tile at the surface of the ground as described in note 21 except that the subsurface mark (bottle) is supposed to have been omitted. The reference marks are triangles with nails in their centers, cut in the fence posts near the station. They are at the following distances and azimuths from the station: No. 1, 5.09 meters (16.70 feet), 195° 25′; No. 2, 1.39 meters (4.56 feet), 272° 22′; and No. 3, 5.12 meters (16.80 feet), 344° 40′.

Buck (Kent County, S. Forney, 1909).—On the northwestern shore of Chester River, about 10 meters back from high water and 30 meters west from the shore end of Buckingham Wharf. The station is marked by a buried white quart bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch drain tile at the surface of the ground, note 21. The reference mark is a buried quart bottle and a nail in concrete at the top of a 3-inch drain tile at the surface of the ground, note 21a. It is 8.17 meters (26.80 feet) from the station in azimuth 47° 38′

High (Kent County, S. Forney, 1909).—On the north shore of Chester River, on the high land about ¼ mile inside of shore line and opposite the mouth of Foreman Branch. Station is marked by a buried glass bottle and a nail set in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch drain tile at the surface of the ground, note 21. Reference marks are triangles blazed on three cedar trees, with nail driven in center of each blaze. They are at the following distances and azimuths from the station: No. 1, 3.66 meters

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(12.01 feet), 114° 14′; No. 2, 2.03 meters (6.66 feet), 135° 23; No. 3, 4.51 meters (14.80 feet), 252° 47′.

Bluff (Queen Annes County, S. Forney, 1909).—On the southern shore of Chester River, on a bluff about 15 feet high, on land belonging to M. O. Walker (rented to Mr. Story), and about 400 meters east of Possum Point. Station is marked by a buried glass bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch tile at the surface of the ground, note 21. Reference marks are nails in triangular blazes cut in two chestnut-oak trees. No. 1 is 11.40 meters (37.4 feet) from station in azimuth 76° 44′, and No. 2 is 7.36 meters (24.15 feet) from station in azimuth 218° 48′.

Wreck (Queen Annes County, S. Forney, 1909).—On the southern shore of Chester River, on first point east of Double Creek (Foreman Branch on chart), about 10 meters from high-water mark, and 4 meters north of a wire fence. About 60 meters northeast of the station is the wreck of an old schooner. Station is marked by a buried glass bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch drain tile at the surface of the ground, note 21. Reference mark No. 1 is triangle cut in a cherry tree about 55 meters (180 feet) from the station in azimuth 140°. Reference mark No. 2 is a buried quart bottle and a nail in concrete at the top of a drain tile at the surface of the ground, note 21a. It is 8.74 meters (28.67 feet) from the station in azimuth 297° 27′.

Med (Kent County, S. Forney, 1909).—On the northern shore of Chester River, in a meadow opposite Double Creek (Foreman Branch), about 500 meters from the shore and 4 feet above high water. To the east and about 10 meters distant the land drops down to low ground; to the north and about 110 meters distant is a wire fence which skirts a line of shrub trees and runs approximately east and west. Station is marked by a buried glass bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch drain tile at the surface of the ground, note 21. Reference mark is a buried quart bottle and a nail in concrete at the top of a drain tile at the surface of the ground, note 21a. It is 7.21 meters (23.65 feet) from the station in azimuth 299° 39′.

Brown (Kent County, S. Forney, 1909).—On the north side of Chester River, about 300 meters east of Travilla Wharf, on a steep bank about 20 feet above high water, and about 15 meters from the shore. The bank is covered with scrub-oak trees. About 10 meters north of the station is the edge of a cultivated field. Station is marked by a buried glass bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch drain tile at the surface of the ground, note 21. The reference mark is a buried quart bottle and a nail in concrete at the top of a 3-inch drain tile at the surface of the ground, note 21a. It is 6.065 meters (19.90 feet) from station in azimuth 225° 05′.

Pine (Queen Annes County, S. Forney, 1909).—On the southern side of Chester River, in a cultivated field, about 85 meters from the shore, and 10 feet above high water. It is about 700 meters east of the point of land opposite Travilla Wharf. On the north side of the station near the river shore is a line of cedar trees. Toward the west and about 150 meters distant is a small grove of trees and undergrowth. Station is marked by a buried glass bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch drain tile at the surface of the ground, note 21. Reference mark is a buried quart bottle and a nail in concrete at the top of a drain tile at the surface of the ground, note 21a. It is 6.64 meters (21.78 feet) from the station, in azimuth 350° 08′.

Low (Kent County, S. Forney, 1909).—On the eastern shore of the reach of Chester River running northwest from Deer Landing, on a salt marsh which is under water at high tide, and about 1 mile due east of Travilla Wharf. It is about 15 meters back from the edge of the marsh. Station is marked by a 4-inch drain tile pipe placed over a stake and surrounded and filled with cement. Center is marked by nail in top of pipe.

Knight (Queen Annes County, S. Forney, 1909).—On the southern side of Chester River, about ½ mile west of Deer Landing, on a high bluff 60 meters from the river shore, near the dwelling house of Clarence Knight, and on land belonging to his brother Lorenzo Knight. Station is marked by a buried glass bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch drain tile at the surface of the ground, note 21a. A

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triangle with nail in center was cut on the northwest corner of Mr. Knight's dwelling and is 16.00 meters (52.5 feet) from the station in azimuth 285° 57′. A triangle with nail in center on the northwest corner of Mr. Knight's potato house is 11.94 meters (39.2 feet) from station in azimuth 304° 48′.

Cedar (Queen Annes County, S. Forney, 1909).—On the southern shore of Chester River, across the river from and about 400 meters southwest of Sprys Wharf, in a wheat field, about 1 meter south of a wire fence. Station is on property belonging to Mr. Tarbutton. It is marked by a buried glass bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a drain tile at the surface of the ground, note 21. Reference mark No. 1 is a triangle cut on a tree with a nail driven in its center. It is 3.30 meters (10.83 feet) from the station in azimuth 61° 03′. No. 2 is a nail in center of triangle cut into a fence post; it is 0.98 meters (3.22 feet) from the station in azimuth 160° 35′. No. 3 is a nail in center of triangle cut into fence post; it is 7.01 meters (23.00 feet) from station in azimuth 215° 47′. Reference mark No. 4 is a buried quart bottle and a nail in concrete at the top of a drain tile at the surface of the ground, note 21a. It is 4.11 meters (13.48 feet) from the station in bearing N. 30° E.

Spry (Kent County, S. Forney, 1909).—On the northern shore of Chester River, in a field, on a slight elevation, about 80 meters from the western edge of the warehouse at Sprys Wharf. Station is marked by a buried glass bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a drain tile at the surface of the ground, note 21. The reference mark is a buried quart bottle and a nail in concrete at the top of a drain tile at the surface of the ground, note 21a. It is 5.63 meters (18.47 feet) from the station in bearing S. 30° E.

Bogg (Kent County, S. Forney, 1909).—On the northern shore of Chester River, opposite Sutton Point, on land belonging to John Wesley Boggs, and about 85 meters from shore line. The station is marked by a buried glass bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a drain tile at the surface of the ground, note 21. Reference marks 1, 2, and 3 are triangles with nails in center blazed on three oak trees; they are at the following distances and azimuths from the station: No. 1, 12.08 meters (39.6 feet), 301° 02′; No. 2, 1.96 meters (6.43 feet), 7° 25′; No. 3, 15.30 meters (50.2 feet), 107° 26′. Reference mark No. 4 is a buried quart bottle and a nail in concrete at the top of a drain tile at the surface of the ground, note 21a. It is 4.52 meters (14.83 feet) from the station in bearing N. 70° W.

Sutton (Queen Annes County, S. Forney, 1909).—On the southern shore of Chester River, on a high bluff in a field about 50 meters northwest of Mr. Collin's home on Sutton Point. The station is marked by a buried glass bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a drain tile at the surface of the ground, note 21. Reference mark No. 1 is nail in center of triangle cut on a large white oak tree; it is 29.22 meters (95.9 feet) from the station in azimuth 209° 55′. Reference mark No. 2 is a buried quart bottle and a nail in concrete at the top of a drain tile at the surface of the ground, note 21a. It is 7.25 meters (23.86 feet) from the station.

Cause (Queen Annes County, S. Forney, 1910).—On the southern side of Chester River, on the upriver side and 250 meters from the north end of the causeway leading to the drawbridge across the Chester River at Crumpton, Md., and 2 meters from high-water mark. The station is marked by a buried glass bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a drain tile at the surface of the ground, note 21. Reference mark No. 1 is nail in center of triangle cut in a large willow tree on the southern side of causeway; it is 12.06 meters (39.6 feet) from station in azimuth 13° 18′. Reference mark No. 2 is a nail in center of a parallelogram cut in a large willow tree on southern side of causeway; it is 9.35 meters (30.68 feet) from station in azimuth 44° 06′. Reference mark No. 3 is a nail in the junction of the vertices of two triangles, one inverted above the other, cut in a large willow tree on the southern side of the causeway; it is 10.54 meters (34.6 feet) from the station in azimuth 79° 24′.

Can (Kent County, S. Forney, 1910).—On the northeast corner of the upriver ventilator on the roof of a canning house owned and operated (in 1910) by Doctor Sheppard. The canning house is on the north side of Chester River,

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opposite the steamboat wharf at Crumpton, and alongside the drawbridge. A 1 by 1 inch signal pole was nailed onto the ventilator.

Snow (Kent County, S. Forney, 1910).—On the north side of Chester River, about 50 meters back from the first prominent point above the bridge at Crumpton, on a low bluff, about 5 meters back from the shore line. The station is marked by a buried glass bottle and a nail in cement surrounded by the letters "U. S. C. & G. S." in the top of a draintile at the surface, note 21. Reference mark No. 1 consists of a nail driven into the center of a parallelogram cut into a forked tree; it is 16.950 meters (55.61 feet) from the station in azimuth 354° 49′. Reference mark No. 2 is a nail driven in the center of a triangle cut in a tree; it is 5.66 meters (18.57 feet) from the station in azimuth 218° 09′. Reference mark No. 3 is a buried bottle and nail in concrete in the top of a drain tile at the surface, note 21a, 5.91 meters (19.39 feet) from the station, in bearing N. 25° E.

Mill (Queen Annes County, S. Forney, 1910).—On the narrow point at the western side of the entrance to Mill Creek, on the southern side of Chester River, about 2 meters from high water, and on the river side of the spit, being about 6 meters from it. The point is covered with small trees and bushes. Station marked by buried glass bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 4-inch drain tile at the surface of the ground, note 21. Reference mark No. 1 is a nail in the center of a triangle cut in a 24-inch sycamore tree; it is 6.64 meters (21.78 feet) from the station in azimuth 8° 12′.9. Reference mark No. 2 is nail in the center of an inverted triangle cut in a 5-inch tree; it is 4.36 meters (14.30 feet) from the station in azimuth 74° 58′.9. Reference mark No. 3 is a buried quart bottle and a nail in concrete at the top of a 3-inch drain tile at the surface of the ground, note 21a. It is 9.41 meters (30.87 feet) from the station, in bearing S. 70° W.

Owen (Queen Annes County, S. Forney, 1910).—On the southern side of Chester River, on a prominent hill about 150 meters from and inside of Owens Point, about 100 meters from the river shore, and about 30 feet above the river. Station is marked by a buried glass bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a drain tile at the surface of the ground, note 21. Reference mark is a nail driven in the center of a triangle cut in a 12-inch cedar tree. It is 31.12 meters (102.1 feet) from the station, in azimuth 251° 15′.6.

Plum (Kent County, S. Forney, 1910).—On the northern shore of Chester River, on the second prominent point (known as "Plum Pudding") above the bridge at Crumpton, on marshland, about 2 meters from high-water mark, on land owned by a Mr. Massey, but occupied by a Mr. Edwards. About 20 meters inshore from the station is a dense tangle of brush and small trees. Station is marked by a buried glass bottle and a nail in concrete surrounded by the letters "U. S. C. & G. S." in the top of a 3-inch drain tile at the surface of the ground, note 21.

Westcott's windmill (Kent County, C. C. Yates, 1909).—On the northwestern side of Chester River, about ⅛ mile inshore from the northern end of Commegys Bight and 1⅜ miles northeast of Cliffs Landing. Station is center of windmill, which is about 35 feet high, and is on a barn, being separate from the water tank which is back of the barn.

Robertson's windmill (Kent County, C. C. Yates, 1909).—On the northwestern side of Chester River, opposite the entrance to Southeast Creek, and about 1¼ miles southeast of Rolphs Wharf. Station is center of windmill on a high tower in the rear of a house.

GRAYS INN CREEK

Inn (Kent County, C. C. Yates, 1909).—On the eastern shore of Grays Inn Creek, about ⅛ mile northwest of Chester River and ½ mile southeast of Island Point, in a peach orchard, about 4 feet above high water, and 25 yards northeast of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: East gable of Swatska's barn, 1¼ miles, 28° 29′; east chimney of house, ½ mile, 46° 12′; east gable of Harris's house, ⅝ mile, 78° 03′; east gable of small house, ⅝ mile, 102° 25′; nail in blaze in 8-inch peach tree,

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11.71 meters (38.4 feet), 179° 52′; southwest corner of Earle bathhouse, 3 miles, 286° 38′; nail in blaze in 30-inch sycamore tree, 4.53 meters (14.86 feet), 300° 34′; north cupola of barn, 2½ miles, 326° 07′.

Little Gum (Kent County, C. C. Yates, 1909).—On the western shore of Chester River, on Little Gum Point, at the southwest side of entrance to Grays Inn Creek. Station is on a marsh point, about 1 foot above high water, 2 yards south of shore, and 12 yards southeast of a 4-foot ditch. Station mark is center of 2-inch tile pipe with top flush with surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of triangle on standard cement monument of Maryland Shell Fish Survey, note 16. It is 40.97 meters (134.4 feet) from the station in azimuth 146° 29′. Other distances and azimuths are as follows: Left tangent of Gum Point, ⅝ mile, 2° 17′; north gable of barn, ¾ mile, 10° 35′; south chimney of Harris's house, ⅜ mile, 137° 46′; east gable of old house on opposite shore, 1 mile, 179° 52′; south chimney of house, 1 mile, 231° 45′; south gable of house near Cliffs Landing, 3¼ miles, 243° 41′; north gable of barn, 3¼ miles, 265° 30′; north gable of barn, 3¼ miles, 280° 45′; south gable of barn, 2⅜ miles, 320° 19′.

Tray (Kent County, C. C. Yates, 1909).—On the eastern shore of Grays Inn Creek, about ¼ mile northwest of Chester River, ⅜ mile southeast of Island Point,,and ½ mile east of Harris Wharf, on a marsh point, about 1 foot above high water, 4 yards northeast of shore, 10 yards southwest of a small locust stump at foot of bank, and 12 yards southwest of foot of slope. Station mark is center of 2-inch tile pipe with top flush with surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 7 inches above surface of ground. It is 8.86 meters (29.07 feet) from the station in azimuth 233° 41′. Other distances and azimuths are as follows: Northeast corner of barn, 1 mile, 23° 21′; east gable of Harris's house, ½ mile, 71° 22′; chimney of Harris's tenant house, ⅝ mile, 87° 43′; north gable of house near shore, ⅝ mile, 95° 40′; north gable of barn, 1½ miles, 121° 48′; south chimney of house, 1¾ miles, 137° 59′; nail in blaze in 4-inch locust tree, 10.60 meters (34.8 feet), 234° 07′; nail in blaze in 6-inch persimmon tree, 9.75 meters (31.99 feet), 273° 03′.

Weeks (Kent County, C. C. Yates, 1909).—On the western shore of Grays Inn Creek, about ⅜ mile northwest of Chester River, and ⅛ mile southeast of Harris Wharf, in a cultivated field, about 7 feet above high water, 6 yards west of shore, 5 yards west of vertical bank 5 feet high, 50 yards northeast of low cedar tree at edge of peach orchard, 250 yards north of a wharf, and 200 yards north-northeast of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of Harris's tenant house, 175 yards, 3° 14′; east gable of Harris's house, 200 yards, 17° 04′; east gable of Harris's barn, 250 yards, 52° 11′; chimney of Harris's tenant house, 300 yards, 121° 16′; right tangent of piles of Harris Wharf, 300 yards, 169° 29′; east gable of Strong's tenant house, ¾ mile, 198° 25′; chimney of Strong's distillery, ⅝ mile, 234° 12′; lone sycamore on opposite shore, ½ mile, 244° 31′.

Island (Kent County, C. C. Yates, 1909).—On the eastern shore of Grays Inn Creek, about ⅝ mile northwest of Chester River, on Island Point, opposite Harris Wharf, on marshland, about 1 foot above high water, 3 yards northeast of shore, and 400 yards west of a house. Station mark is center of 2-inch tile pipe with top flush with surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. It is 9.01 meters (29.56 feet) from station in azimuth 223° 38′. Other distances and azimuths are as follows: Lone poplar tree, ⅝ mile, 28° 41′; east gable of Harris's house, ½ mile, 32° 05′; east gable of Harris's barn, 37° 10′; right tangent of piles of old wharf, ⅜ mile, 57° 07′; chimney of small house, 1¼ miles, 117° 01′; east chimney of house, ¾ mile, 134° 45′; east gable of Strong's tenant house, ¼ mile, 161° 09′; chimney of Strong's old distillery, ¼ mile, 272° 11′; lone cedar tree near shore, 300 yards, 318° 37′.

Spring (Kent County, C. C. Yates, 1909).—On the western shore of Grays Inn Creek, about ½ mile northwest of Chester River, on Spring Point, near

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Harris Wharf, in a cultivated field, about 10 feet above high water, 8 yards southwest of shore, 10 yards west of a barn, 4 yards southwest of top of slope, and 100 yards southwest of an old wharf. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in post in southwest corner of Harris's hay shed, 20.69 meters (67.9 feet), 20° 34′; stack of Leary's sawmill, 2 miles, 148° 01′; nail in blaze in 3-inch walnut tree, 10.73 meters (35.2 feet), 149° 52′; chimney of Strong's tenant house, ¾ mile, 212° 42′; left tangent of piles at northeast corner of old wharf, 100 yards, 239° 48′; lone sycamore tree on opposite shore, ½ mile, 264° 35′; nail in northwest corner of Harris's barn, 9.10 meters (29.86 feet), 276° 48′; lone cedar tree near orchard, 350 yards, 341° 39′.

Fore (Kent County, C. C. Yates, 1909).—On the eastern shore of Grays Inn Creek, about 1 mile northwest of Chester River, and ⅜ mile north of Harris Wharf, on a marsh point, about 1 foot above high water, 3 yards northwest of shore, 11 yards north-northeast of extreme end of point, and in center of triangle formed by three pine stubs driven flush with marsh to support theodolite. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 12 inches above surface of ground; subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: East gable of Harris's barn, ⅜ mile, 4° 13′; north chimney of house, 1¼ miles, 114° 28′; east gable of small house, 1¼ miles, 116° 54′; 2-foot swamp oak tree, 100 yards, 167° 39′; southwest corner of Strong's tenant house, ⅜ mile, 270° 39′; lone 12-inch sycamore tree, ¾ mile, 311° 09′; chimney of Harris's tenant house, ⅝ mile, 356° 01′; left tangent of piles of Harris (old) Wharf, ⅜ mile, 357° 47′.

Lucy (Kent County, C. C. Yates, 1909).—On the western shore of Grays Inn Creek, about ¾ mile northwest of Chester River and ¼ mile northwest of Harris Wharf, on wooded shore, about 5 feet above high water, 5 yards west of shore, 2 yards west of top of vertical bank, and 3 feet north of a stump 4 inches in diameter. Station mark is center of 2-inch tile pipe projecting 3 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 11.55 meters (37.9 feet) from station in azimuth 36° 58′. Other distances and azimuths are as follows: Nail in blaze in twin 18-inch chestnut tree, 9.54 meters (31.30 feet), 23° 04′; nail in blaze in twin 10-inch chestnut tree, 8.31 meters (27.26 feet), 63° 23′; stack of Leary's windmill, 1⅝ miles, 150° 17′; east gable of barn, 2 miles, 162° 25′; left tangent of piles of Strong (old) Wharf, ¾ mile, 165° 00′; southwest corner of Strong's house, ¾ mile, 262° 19′; nail in blaze in 15-inch gum tree, 4.73 meters (15.52 feet), 289° 33′; left tangent of piles of Harris (old) Wharf, ¼ mile, 297° 14′; northeast corner of Harris's barn, ¼ mile, 310° 39′.

Cut (Kent County, C. C. Yates, 1909).—On the eastern shore of upper Grays Inn Creek, on point about 1⅜ miles northwest of Chester River and ½ mile south of Herringtown Creek, on marshland, below high-water level, about 13 yards north of shore, 60 yards northwest of three large cedar trees, 35 yards southwest of wire fence at edge of woods, and in center of triangle formed by three pine stubs driven flush with marsh to support theodolite. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: East gable of barn, ½ mile, 107° 30′; north chimney of house, ½ mile, 112° 37′; south gable of house, 1½ miles, 149° 37′; left tangent of piles of Strong (old) Wharf, ¼ mile, 156° 21′; nail in blaze in 6-inch pine tree, 22.31 meters (73.2 feet), 235° 28′; nail in blaze in 12-inch cedar tree, 28.19 meters (92.5 feet), 265° 02′; left tangent of piles of Harris (old) Wharf, ⅝ mile, 332° 05′; east chimney of Harris's house, ¾ mile, 339° 18′.

Goose (Kent County, C. C. Yates, 1909).—On the western shore of upper Grays Inn Creek, about 1¼ miles northwest of Chester River, on point between Browns Cove and Goose Cove, in a cultivated field, at edge of peach orchard, about 12 feet above high water, 8 yards southwest of shore, 6 yards southwest of top of vertical bank, and 1 yard north of row of peach trees. Station

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mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 6-inch peach tree, 10.42 meters (34.2 feet), 50° 08′; east gable of barn, ¾ mile, 129° 35′; nail in blaze in 5-inch locust tree, 14.47 meters (47.5 feet), 149° 17′; stack of Leary's sawmill, 1⅛ miles, 154° 32′; east gable of house, 1½ miles, 161° 58′; west chimney of house, 1¼ miles, 192° 41′; nail in blaze in 6-inch locust tree, 5.32 meters (17.45 feet), 197° 18′; west chimney of house, 1 mile, 198° 55′; left tangent of piles of old wharf, ⅜ mile, 200° 00′; west chimney of house, ½ mile, 248° 30′; north post of Harris's hay shed, ¾ mile, 318° 04′.

Prussian (Kent County, C. C. Yates, 1909).—On the western shore of upper Grays Inn Creek, about 1⅝ miles northwest of Chester River, opposite Strong (old) Wharf, in a marsh meadow, about 1 foot above high water, 9 yards southwest of shore, 25 yards west of extreme end of point, and in center of triangle formed by three pine stubs driven flush with the marsh to support theodolite. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of house, ¼ mile, 93° 57′; south chimney of house, ¼ mile, 101° 04′; south chimney of house, 1¼ miles, 200° 29′; west chimney of house, ½ mile, 211° 17′; west chimney of house, ⅞ mile, 228° 22′; west chimney of small house near shore, 1 mile, 236° 29′; right tangent of piles of Strong (old) Wharf, ¼ mile, 258° 57′; left tangent of piles of Harris (old) Wharf, 1 mile, 320° 40′; south gable of Harris's hay shed, 1 mile, 324° 58′.

No Road (Kent County, C. C. Yates, 1909).—On the eastern shore of upper Grays Inn Creek, about 1½ miles northwest of Chester River, at south side of entrance to Herringtown Creek, and near Strong (old) Wharf, on a clay and sand beach, on a wooded shore, about 1 foot above high water, 5 yards east of shore and 17 yards east of end of piles of an old wharf. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left tangent of piles of Strong (old) Wharf, 100 yards, 75° 06′; south chimney of house, ½ mile, 88° 34′; stack of Leary's windmill, 1 mile, 136° 46′; Wick's windmill, 2½ miles, 141° 33′; east chimney of house, 1¼ miles, 145° 46′; east gable of barn, ¾ mile, 156° 19′; nail in blaze in 18-inch pine tree, 24.75 meters (81.2 feet), 187° 22′; nail in blaze in 18-inch gum tree, 8.16 meters (27.77 feet), 304° 53′.

Gray (Kent County, C. C. Yates, 1909).—On the western shore of upper Grays Inn Creek, about 1¾ miles northwest of Chester River, 250 yards west of Browns Point, and 1 mile south-southeast of Learys Mill Wharf, in a cultivated field, about 3 feet above high water, 10 yards south of shore, 200 yards north of a group of five pine trees, and about on line with two cedar trees north of station. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: West one of a group of pine trees (12 inches in diameter), 200 yards, 14° 56′; north chimney of house, ¼ mile, 43° 09′; stack of Leary's sawmill, ⅝ mile, 147° 20′; Wicks's windmill, 1½ miles, 148° 58′; chimney of small house, ¾ mile, 154° 06′; nail in blaze in dead 6-inch cedar tree, 4.43 meters (14.53 feet), 171° 27′; east chimney of house, ½ mile, 179° 35′; lone dead pine tree, ¼ mile, 223° 43′; south gable of barn, ⅜ mile, 234° 06′; nail in blaze in 3-inch cedar tree, 14.67 meters (48.1 feet), 246° 16′; chimney of Harris's house, 1⅜ miles, 331° 34′.

Herring (Kent County, C. C. Yates, 1909).—On the eastern shore of upper Grays Inn Creek, about 1⅞ miles northwest of Chester River, at north side of entrance to Herringtown Creek, and about ⅝ miles east-southeast of Leary's sawmill, in a marsh meadow, about 2 feet above high water, 20 yards north of shore, 5 yards west of rail fence, 7 yards south of lone dead pine tree, 75 yards south of a lone cedar tree, and in center of triangle formed by three pine stubs driven flush with marsh to support theodolite. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is

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center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of house, ½ mile, 43° 45′; nail in blaze in 30-inch dead pine tree, 6.66 meters (21.85 feet), 186° 47′; chimney of house, ⅜ mile, 200° 57′; chimney of house, ¼ mile, 209° 10′; east chimney of house, ½ mile, 259° 05; west chimney of house, 300 yards, 285° 19′.

LANGFORD CREEK

Deep Cove (Kent County, C. C. Yates, 1909).—On the western shore of Chester River, on point at west side of entrance to Langford Creek and south side of entrance to Deep Cove, on marshland, about 1 foot above high water, 10 yards inshore, 50 yards east of a dead tree 2 feet in diameter, 80 yards southeast of a tall poplar tree, and 300 yards east of a house. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Spindle on gable of barn, 1⅞ miles, 40° 24′; lone poplar tree, ¼ mile, 52° 36′; northeast corner of Ashley house, 300 yards, 81° 13′; southeast corner of fishing shack, 200 yards, 117° 50′; lone pine tree, ¼ mile, 129° 17′; south gable of house, 1⅛ miles, 187° 15′; west chimney of house, 1⅛ miles, 194° 03′; west gable of barn, 1 mile, 236° 46′; north chimney of house at Cliffs Landing, 2 miles, 249° 32′; north gable of barn, 2⅜ miles, 281° 57′; southwest corner of Earle bathhouse, 2⅝ miles, 300° 25′; north gable of barn, 2⅝ miles, 348° 23′.

Peach (Kent County, C. C. Yates, 1909).—On the eastern shore of Langford Creek, about ½ mile north of Chester River, and ¾ mile south of Drum Point, on marshland, about 1 foot above high water, 4 yards east of shore, 300 yards west of peach orchard, and in center of triangle formed by three pine stubs driven flush with the marsh to support the theodolite. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of house, 2½ miles, 56° 40′; east gable of barn, ¾ mile, 107° 46′; east chimney of small house, 1⅛ miles, 142° 19′; east chimney of house, ⅞ mile, 152° 03′; chimney of small house, 1¼ miles, 163° 06′; east chimney of house, 2½ miles, 183° 07′; north gable of house, 3⅝ miles, 355° 59′.

Snub (Kent County, C. C. Yates, 1909).—On the western shore of Langford Creek, on a prominent point about ⅝ mile north of Chester River, between Deep Cove and Long Cove, on a low sand point about 2 feet above high water, 8 yards west of shore, and 75 yards north of cedar trees on shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Lone pine tree, 75 yards, 16° 58′; lone 18-inch poplar tree, 300 yards, 145° 55′; east chimney of house, 1 mile, 166° 17′; west chimney of house, 1 mile 180° 18′; west chimney of house, ¾ mile, 198° 27′; west chimney of house, 1⅜ miles, 233° 30′; south chimney of Brown's house, 1⅛ miles, 254° 28′; left edge of Earle bathhouse, 2⅝ miles, 311° 01′.

Drum (Kent County, C. C. Yates, 1909).—On the western shore of Langford Creek, on Drum Point, about 1¼ miles north of Chester River, between Lawyers Cove and Davis Creek, in a marsh meadow, about 2 feet above high water, 13 yards north of shore, 15 yards south of shore, and 13 yards west of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: East chimney of Ashley's house, 1¼ miles, 33° 45′; east gable of house, ½ mile, 116° 41′; chimney of small house, ⅜ mile, 161° 10′; south gable of barn, 1⅝ miles, 194° 37′; west chimney of house, 1⅝ miles, 216° 39′; west chimney of house, ¾ mile, 250° 21′; west gable of Brown's house, ⅝ mile, 315° 18′.

Major (Kent County, C. C. Yates, 1909).—On the eastern shore of Langford Creek, about 1⅛ miles north of Chester River, ⅜ mile southeast of Drum Point, and ¾ mile south of Orchard Point, in a cultivated field, about 15 feet above high water, 25 yards southeast of shore, 17 yards southeast of edge of bluff, 9 yards southeast of wire fence, and 18 yards south of locust trees. Station mark is center of standard cement monument of Maryland Shell Fish

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Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: East gable of house, 1½ miles, 49° 56′; north chimney of Ashley's house, 1 mile; 71° 03′; east gable of house, 1¼ miles, 92° 34′; east gable of house, 1 mile, 119° 54′; east chimney of house, 1 mile, 127° 32′; nail in blaze in 6-inch locust tree, 16.49 meters (54.1 feet), 152° 04′; north chimney of Brown's house, ¼ mile, 329° 22′.

Neck (Kent County, C. C. Yates, 1909).—On the eastern shore of Langford Creek, on Orchard Point, at south side of entrance to East Fork of Langford Creek and about ¼ mile south of Cacaway Island, about 6 feet above high water, 6 yards south of shore, 12 yards east of shore, 10 yards east-southeast of point of bank in cultivated field, and 30 yards northwest of corner of peach orchard. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right peak of barn, 1⅛ miles, 36° 28′; right chimney of house, ⅞ mile, 56° 25′; right chimney of small house, 1⅛ miles, 78° 40′; chimney on right end of house among trees, ½ mile, 200° 59′; nail in blaze in 3-inch cedar tree 11.67 meters (38.3 feet) 223° 21′; nail in blaze in 3-inch peach tree, 27.58 meters (90.5 feet), 310° 08′.

Davis (Kent County, C. C. Yates, 1909).—On the western shore of Langford Creek, on point about 1⅞ miles north of Chester River, ⅛ mile northeast of entrance to Davis Creek, ⅝ mile north of Drum Point, and nearly opposite Orchard Point, in a cultivated field, about 10 feet above high water, 20 yards northwest of shore, and 10 yards northwest of top of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 4-inch oak tree, 16.50 meters (54.1 feet), 20° 40′; chimney of small house, 1 mile, 205° 59′; south gable of barn, 1¼ miles, 233° 04′; west chimney of house, 1⅛ miles, 266° 27′; west chimney of house, 1 mile, 293° 28′; nail in blaze in 15-inch oak tree, 10.46 meters (34.3 feet), 323° 15′; chimney of house, 1⅛ miles, 336° 23′.

Isle (Kent County, C. C. Yates, 1909).—On the western shore of the West Fork of Langford Creek, on Island Point, about ¼ mile north of main body of creek and ⅜ mile northwest of Cacaway Island, on a low sand point, about 1 foot above high water, 5 yards south of shore, 8 yards north of shore, 50 yards west of extreme end of point, and 20 yards east of foot of wooded bluff 15 feet high. Station mark is center of 2-inch tile pipe projecting 3 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 5.55 meters (18.21 feet) from the station in azimuth 79° 31′. Other distances and azimuths are as follows: Lone cedar tree on Drum Point, 1 mile, 11° 25′; south chimney of house, 1¼ miles, 132° 30′; south gable of Leary's corncrib, 1¾ miles, 138° 15′; west chimney of house, 1¼ miles, 183° 52′; chimney of small house, ½ mile, 212° 25′; north chimney of house, 1¼ miles, 278° 47′; north gable of barn, 1 mile, 290° 32′.

King (Kent County, C. C. Yates, 1909).—On the point between East Fork and West Fork of Langford Creek, about 150 yards north of Cacaway Island, on point about 14 feet high, at edge of cultivated field, 3 yards northwest of edge of bank, 3 yards east of edge of bank at gully, and 8 yards east-northeast of point of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 4-inch tree, 8.27 meters (27.13 feet), 28° 40′; right peak of barn, 2 miles, 39° 27′; nail in blaze in 4-inch tree, 7.49 meters (24.57 feet), 111° 27′; left chimney on mansion house, 124° 08′; chimney of house among trees, 160° 04′; left peak of large house, 1¾ miles, 280° 44′; nail in blaze in 8-inch oak tree, 6.25 meters (20.51 feet), 295° 18′; left chimney of house, 3 miles, 338° 10′.

Hornor (Kent County, C. C. Yates, 1909).—On the eastern shore of West Fork of Langford Creek, on point between Long Cove and Hornors Cove, about ¾ mile north of main body of Langford Creek, in a marsh meadow, about 1 foot above high water, 15 yards northeast of shore, and 30 yards south of fringe of woods parallel with shore. Station mark is center of

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standard cement monument of Maryland Shell Fish Survey, note 13, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of house, ⅜ mile, 78° 05′; west chimney of De Ford's house, ⅝ mile, 104° 49′; south chimney of house, 1¼ miles, 113° 12′; north chimney of house, 1½ miles, 124° 50′; left edge of small house, 1 mile, 326° 49′; right tangent of Cacaway Island, ¾ mile, 346° 04′.

Eagle (Kent County, C. C. Yates, 1909).—On the western shore of West Fork of Langford Creek, on Eagle Point, at south side of entrance to Graveyard Cove, about ¾ mile northwest of main body of Langford Creek, on a prominent bluff about 20 feet above high water, 26 yards west of extreme end of point, 11 yards south of top of bank, 8 yards north of top of bank, and 2 yards north of small cedar tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of house, 1 mile, 35° 58′; 12-inch lone oak tree, ¼ mile, 57° 38′; nail in blaze in 15-inch stump, 4.54 meters (14.89 feet), 106° 15′; east chimney of De Ford's house, ⅜ mile, 120° 53′; south chimney of house, ¾ mile, 128° 48′; lone cedar tree, ⅝ mile, 172° 53′; chimney of small house, 1½ miles, 184° 58′; left tangent of Cacaway Island, ¾ mile, 306° 16′; nail in blaze in stump near top of bank, 9.96 meters (32.68 feet), 350° 02′.

West (Kent County, C. C. Yates, 1909).—On the eastern shore of West Fork of Langford Creek, on Cedar Point, at west side of entrance to Long Cove, about ⅞ mile north of main body of Langford Creek, on marshland, about 1 foot above high water, 5 yards west of shore, 8 yards east of shore, and 25 yards northwest of extreme end of point. Station mark is center of 2-inch tile pipe projecting 3 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 21.85 meters (71.7 feet) from station in azimuth 207° 39′; Other distances and azimuths are as follows: Twin oak tree on Eagle Point, ¼ mile, 33° 34′; chimney of house, ¾ mile, 49° 02′; east chimney of De Ford's house, ½ mile, 81° 54′; south chimney of house, ¾ mile, 97° 14′; north chimney of house, 1¼ miles, 115° 07′; nail in blaze in 6-inch cherry tree, 15.45 meters (50.7 feet), 203° 39′; nail in blaze in 12-inch oak tree, 26.24 meters (86.1 feet), 219° 56′.

Ford (Kent County, C. C. Yates, 1909).—On the western shore of West Fork of Langford Creek, about 1 mile northwest of main body of Langford Creek, ⅜ mile northwest of Eagle Point, and ½ mile south of Whale Point, in a garden, about 20 feet above high water, 9 yards southwest of shore, 7 yards southwest of top of bank, and 80 yards southeast of house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: East gable of De Ford's house, 80 yards, 110° 23′; 12-inch walnut tree, 50 yards, 122° 49′; nail in blaze in 12-inch cherry tree, 10.76 meters (35.3 feet), 177° 32′; lone cedar tree, ½ mile, 208° 37′; south gable of old barn, 1 mile, 229° 51′; nail in blaze in 8-inch cedar tree, 6.23 meters (20.44 feet), 294° 41′; twin oak tree on Eagle Point, ¼ mile, 307° 27′.

Mill (Kent County, C. C. Yates, 1909).—On the eastern shore of West Fork of Langford Creek, on point at west side of a small cove about 1¼ miles northwest of main body of Langford Creek and ⅜ mile south of Vickers Wharf, on a marsh point, about 2 feet above high water, 6 yards west of shore, 7 yards east of shore, 15 yards northwest of extreme end of point, and in center of triangle formed by three pine stubs driven flush with marsh to support theodolite. Station mark is center of 2-inch tile pipe projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 9.48 meters (31.10 feet) from station in azimuth 182° 57′. Other distances and azimuths are as follows: Chimney of house, ¾ mile, 16° 39′; east chimney of De Ford's house, ⅜ mile, 42° 37′; south chimney of house, ⅜ mile, 71° 05′; north chimney of house, ⅜ mile, 105° 02′; south chimney of house, 2 miles, 175° 50′; lone cedar tree, 300 yards, 196° 23′; south gable of barn, ½ mile, 246° 15′.

Kinsley (Kent County, C. C. Yates, 1909).—On the western shore of West Fork of Langford Creek, on Pastor Point, about 1¼ miles northwest of main

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body of Langford Creek, and ¼ mile south of Whale Point, about 2 feet above high water, 6 yards west of shore, 200 yards north of a wharf, and at foot of a slope rising to an elevation of 10 feet.. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: End of Kinsley Wharf, 200 yards, 2° 08′; nail in blaze in 12-inch wild-cherry tree, 4.01 meters (13.16 feet), 19° 01′; nail in blaze in twin stump, 2.57 meters (8.43 feet), 65° 52′; north chimney of Leary's house, ⅛ mile, 152° 55′; chimney of house, 1¼ miles, 205° 11′; lone cedar tree, ⅜ mile, 246° 28′; south gable of barn, ⅝ mile, 254° 45′; west chimney of De Ford's house, ¼ mile, 351° 15′.

Nat (Kent County, C. C. Yates, 1909).—On the eastern shore of West Fork of Langford Creek, opposite Whale Point, about 1⅜ miles northwest of main body of Langford Creek and ¼ mile south of Vickers Wharf, on a marsh point, about 2 feet above high water, 7 yards south of shore, 8 yards north of shore, 25 yards east of extreme end of point, and in center of triangle formed by three pine stubs driven flush with marsh to support theodolite. Surface mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: West gable of house, 1½ miles, 2° 09′; left edge of De Ford's kitchen, ⅜ mile, 19° 18′; north chimney of house, ⅜ mile, 42° 15′; north gable of barn, ⅜ mile, 46° 20′; east gable of barn, ½ mile, 105° 37′; chimney of house, ¾ mile, 198° 38′; 3-inch persimmon tree, 70 yards, 236° 41′; south gable of barn, ⅜ mile, 272° 55′; left tangent of Eagle Point, ⅝ mile, 341° 29′.

Whale (Kent County, C. C. Yates, 1909).—On the western shore of West Fork of Langford Creek, on Whale Point, at south side of entrance to Bungay Creek, about 1½ miles northwest of main body of Langford Creek, and ⅜ mile southwest of Vickers Wharf, on a marsh point, about 2 feet above high water, 6 yards southwest of shore, and 300 yards northeast of a house. Station mark is center of 2-inch tile pipe projecting 3 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 17. It is 8.75 meters (28.71 feet) from station in azimuth 35° 26′. Other distances and azimuths are as follows: Nail in blaze in 6-inch cedar tree, 7.20 meters (23.62 feet), 6° 08′; nail in blaze in 12-inch cedar tree, 13.55 meters (44.5 feet), 54° 03′; north chimney of house, ¾ mile, 230° 59′; left tangent of piles of Vickers Wharf, ¼ mile, 231° 08′; west chimney of house, ¾ mile, 277° 25′; left tangent of Eagle Point, ¾ mile, 329° 39′; west chimney of De Ford's house, ¾ mile, 357° 05′.

Bungay (Kent County, C. C. Yates, 1909).—On the western shore of West Fork of Langford Creek, on point at north side of entrance to Bungay Creek, about 1⅝ miles northwest of main body of Langford Creek and ¼ mile west of Vickers Wharf, on a low sand point, about 1 foot above high water, and 16 yards west of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: West gable of barn, ½ mile, 9° 40′; north chimney of Kinsley's house, ⅜ mile, 16° 47′; north chimney of Leary's house, ¼ mile, 29° 41′; north gable of house, ½ mile, 32° 05′; south gable of house, 1¾ miles, 177° 22′; south gable of barn, ¾ mile, 209° 40′; north chimney of house, ½ mile, 239° 57′; west chimney of house, ⅜ mile, 264° 27′; lone 12-inch cedar tree, ¼ mile, 316° 37′, left edge of bank on Eagle Point, ⅞ mile, 339° 04′.

Locust (Kent County, C. C. Yates, 1909).—On the eastern shore of West Fork of Langford Creek, near Vickers Wharf, about 1⅝ miles northwest of main body of Langford Creek, in a cultivated field about 2 feet above high water, 5 yards southeast of shore, and immediately back of loading platform on Vickers Wharf. Station mark is nail in root of leaning locust tree 12 inches in diameter. Distance to drift pin in top of pile head at southeast end of Vickers Wharf is 5.78 meters (18.96 feet), and to drift pin in top of pile at northwest end of wharf, 7.78 meters (25.52 feet).

Lawyer (Kent County, C. C. Yates, 1909).—On the western shore of Langford Creek, on Long Point, about 1 mile north of Chester River, between Long Cove and Lawyers Cove, on a low sand point about 1 foot above high water,

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8 yards west of extreme end of point, and 30 yards east of group of pine trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Southeast chimney of Strong's house, ½ mile, 42° 22′; nail in blaze in twin 18-inch pine tree, 26.76 meters (87.8 feet), 79° 26′; nail in blaze in 12-inch pine tree, 26.07 meters (85.5 feet), 93° 01′; south chimney of house, ⅜ mile, 99° 52′; east chimney of house, ¾ mile, 128° 40′; east chimney of house, ½ mile, 152° 24′; west chimney of house, ¼ mile, 200° 58′; west chimney of Brown's house, ⅞ mile, 282° 04′.

Corn (Kent County, C. C. Yates, 1909).—On the eastern shore of East Fork of Langford Creek, on east side of small cove about ⅜ mile east of main body of Langford Creek, and ½ mile southwest of Haw Bush Point, in edge of cultivated land, about 3 feet above high water, 12 yards east-southeast of shore, and 4 yards east-southeast of line of trees between shore and station. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near corner of house, ⅛ mile, 16° 13′; chimney of house near shore, 1 mile, 68° 34′; chimney of large house, 2 miles, 76° 09′; nail in blaze in 5-inch locust tree, 3.98 meters (13.06 feet), 97° 19′; nail in blaze in 4-inch locust tree, 4.60 meters (15.09 feet), 139° 02′; nail in blaze in 4-inch locust tree, 10.47 meters (34.4 feet), 188° 28′; near peak of barn, ¾ mile, 199° 41.

Ash (Kent County, C. C. Yates, 1909).—On the western shore of East Fork of Langford Creek, about ½ mile north of main body of Langford Creek and ⅛ mile northeast of north end of Cacaway Island, in cultivated land about 10 feet above high water, 35 yards northwest of shore, 14 yards northwest of edge of low bank, 20 yards northwest of line of trees along shore, and 36 yards south-southwest of point of trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left peak of house, 1 mile, 46° 49′; chimney of small house, 1¾ miles, 101° 48′; near peak of large house, 1½ miles, 114° 28′; left chimney of large mansion, 1¾ miles, 118° 22′; nail in blaze in 5-inch oak tree, 21.37 meters (70.1 feet), 242° 15′; left peak of long barn, 1½ miles, 287° 36′; nail in blaze in 14-inch oak tree, 19.55 meters (64.1 feet), 291° 54′; nail in blaze in 14-inch oak tree, 27.87 meters (90.4 feet), 348° 00′.

Noth (Kent County, C. C. Yates, 1909).—On the western shore of the East Fork of Langford Creek, on point opposite Kings Creek, about ¾ mile northeast of main body of Langford Creek and one-half mile east of north end of Cacaway Island, in cultivated land, about 3 feet above high water, 6 yards west of shore, 23 yards northeast of shore, and 40 yards north of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of house, ½ mile, 31° 05′; chimney of house, 3 miles, 56° 48′; nail in blaze in 5-inch locust tree, 8.11 meters (26.61 feet), 211° 22′; southwest peak of large barn, ½ mile, 241° 37′; nail in blaze of 8-inch oak tree, 5.95 meters (19.52 feet), 270° 16′; left chimney of Stoop's store, ¾ mile, 291° 38′; left peak of Stoop's long barn, ¾ mile, 294° 05′; near peak of barn, ⅜ mile, 341° 58′; nail in blaze in 3-inch locust tree, 4.91 meters (16.11 feet), 358° 41′.

Wann (Kent County, C. C. Yates, 1909).—On the eastern shore of East Fork of Langford Creek, on Haw Bush Point, at west side of entrance to Kings Creek and Wanns Cove and about ⅞ mile northeast of main body of Langford Creek, about 3 feet above high water, 2 yards south of shore, 2 yards north of shore, and 16 yards west-southwest of a persimmon tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground; subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of house near shore, 1½ miles, 64° 55′; chimney on south end of house, 2¼ miles, 70° 01′; south peak of large barn, ½ mile, 117° 34′; east chimney of house, ½ mile, 151° 41′; peak of house

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among trees, ⅞ mile, 193° 09′; nail in blaze in 9-inch persimmon tree, 12.76 meters (41.9 feet), 243° 08′; nail in blaze in oak tree, 1.31 meters (4.30 feet), 254° 58′; north chimney of Stoop's storehouse, ½ mile, 285° 30′; north peak of Stoop's long barn, ½ mile, 289° 08′; south chimney of house, ½ mile, 329° 51′.

Leary (Kent County, C. C. Yates, 1909).—On the western shore of East Fork of Langford Creek, about 1 mile northeast of main body of Langford Creek and ⅜ mile north of Haw Bush Point, on a marsh point near Learys (old) Wharf, about 1 foot above high water, 6 yards west of shore, 10 yards northeast of shore, and 10 yards north of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: House among trees, ⅝ mile, 3° 53′; chimney of house, ⅞ mile, 32° 58′; nail in blaze in 14-inch cedar tree, 17.45 meters (57.3 feet), 109° 43′; nail in blaze in 6-inch locust tree, 15.75 meters (51.7 feet), 134° 14′; nail in blaze in 7-inch locust tree, 15.80 meters (51.8 feet), 152° 34′; north chimney of house, ⅝ mile, 252° 26′.

Cult (Kent County, C. C. Yates, 1909).—On the eastern shore of East Fork of Langford Creek, on point about 1¼ miles northeast of main body of Langford Creek and ¼ mile east of Learys (old) Wharf, about 3 feet above high water, 12 yards south-southeast of shore, 16 yards east of shore, 4 yards south-southeast of a road, and 40 yards southeast of a wharf. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of barn, ¾ mile, 24° 07′; peak of house showing through trees, 1 mile, 41° 20′; chimney of house, 2¼ miles, 50° 55′; south peak of house, ⅜ mile, 81° 26′; south peak of house, ⅜ mile, 175° 31′; chimney of house, 1 mile, 198° 49′; north chimney of house, 253° 02′.

Nest (Kent County, C. C. Yates, 1909).—On the western shore of the East Fork of Langford Creek, on point about 1⅜ miles northeast of main body of Langford Creek and ⅝ mile southwest of entrance to Philips Creek, in a pasture, about 10 feet above high water, 11 yards north of edge of bank, 12 yards west of edge of bank, 16 yards west-northwest of point of bank, and 125 yards south of clump of trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of small house, 2 miles, 4° 43′; chimney of rambling house, 1⅝ miles, 33° 11′; nail in blaze in 4-inch locust tree, 12.59 meters (41.3 feet), 50° 37′; large tree in small clump, 113° 46′; nail in blaze in 20-inch oak tree, 38.40 meters (126.0 feet) 173° 06′; east peak of shed, 184° 34′; large chimney of house, 3 miles, 203° 03′; near chimney of house, 1 mile, 260° 22′; nail in blaze in 4-inch hickory stump, 10.07 meters (33.0 feet) 313° 28′.

Hoo (Kent County, C. C. Yates, 1909).—On the eastern shore of East Fork of Langford Creek, about 1⅝ miles northeast of main body of Langford Creek, ⅞ mile north of Haw Bush Point, and ⅜ mile south of entrance to Philips Creek, on marshland, about 1 foot above high water, 10 yards southeast of shore, 14 yards east of shore, 20 yards north of shore, and in front of water bushes. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 7 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North peak of barn, ¾ mile, 60° 43′; south peak of barn, ⅜ mile, 112° 14′; east peak of barn, 1¼ miles, 152° 53′; south peak of barn, 2 miles, 172° 25′; north peak of large barn, ¼ mile, 348° 21′; left corner of east chimney of brick house, ¼ mile, 356° 16′.

Woll (Kent County, C. C. Yates, 1909).—On the western shore of East Fork of Langford Creek, about 1 mile north of Haw Bush Point, and ⅜ mile southwest of entrance to Philips Creek, in corner of cultivated field, about 10 feet above high water, 10 yards southwest of edge of bank, 17 yards north of edge of bank, 19 yards northwest of extreme point of bank, and 125 yards east-northeast of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as

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follows: Left tangent of chimney of house, 125 yards, 61° 41′; south peak of barn, ¾ mile, 183° 19′; large chimney of house, 2⅛ miles, 203° 59′; chimney on ell of large house, 1⅝ miles, 212° 04′; chimney of shanty, 1 mile, 230° 33′; right corner of west chimney of large brick house, ¾ mile, 282° 26′; east peak of large barn, ½ mile, 325° 45′; right corner of north chimney of brick house, ⅜ mile, 330° 19′.

Ide (Kent County, C. C. Yates, 1909).—On the eastern shore of East Fork of Langford Creek, at south side of entrance to Philips Creek, and about 2 miles northeast of main body of Langford Creek, about 2 feet above high water, 17 yards east of shore, 15 yards southeast of cut in shore, and 18 yards northeast of another cut in shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: East peak of large barn, ⅝ mile, 3° 48′; northeast peak of house, 1⅝ miles, 36° 51′; chimney of house, ⅜ mile, 67° 06′; south peak of barn, ¾ mile, 165° 41′; chimney of True's house, ⅜ mile, 310° 43′.

Harp (Kent County, C. C. Yates, 1909).—On the western shore of East Fork of Langford Creek, on point opposite entrance to Philips Creek, at southeast end of row of bushes on marsh point, about 1 foot above high water, 20 yards southwest of edge of marsh, 20 yards west of edge of marsh, 24 yards northwest of edge of marsh, and 40 yards from tree-fringed bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: East chimney of brick house, ¾ mile, 157° 01′; south peak of large barn, 1 mile, 185° 47′; chimney of house, 2 miles, 210° 14′; large square chimney on west end of house, ¾ mile, 300° 33′; northeast peak of long barn, ¾ mile, 334° 55′; chimney of small house, ¾ mile, 337° 27′.

Philip (Kent County, C. C. Yates, 1909).—On the eastern shore of East Fork of Langford Creek, at north side of entrance to Philips Creek, and about ⅝ mile southeast of entrance to Lovely Cove, on marshland, about 1 foot above high water, 10 yards east of edge of marsh, 15 yards northeast of edge of marsh, 17 yards southeast of edge of marsh, and southwest of a small group of cedar trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North peak of building, ¾ mile, 76° 35′; southwest chimney of small house, 1⅝ miles, 126° 52′; east peak of small shed, 1¼ miles, 144° 35′; nail in blaze in 4-inch cedar tree, 15.79 meters (51.8 feet), 207° 47′; nail in blaze in 3-inch water bush, 9.00 meters (29.53 feet), 238° 38′; nail in blaze in 4-inch cedar tree, 13.97 meters (45.8 feet), 307° 00′; northeast peak of large barn, 1 mile, 348° 36′; chimney on ell of house, ¾ mile, 350° 54′.

Gut (Kent County, C. C. Yates, 1909).—On the eastern shore of East Fork of Langford Creek, on point at north side of entrance to a small cove, about ¼ mile east of entrance to Lovely Cove and ½ mile northwest of entrance to Philips Creek, on a marsh point, about 1 foot above high water, 15 yards northeast of edge of marsh, 16 yards north of edge of marsh, 21 yards east of edge of marsh, and 65 yards north-northwest of extreme point of marsh. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney on southwest end of small house, 1 mile, 101° 40′; east end of small shed, ½ mile, 146° 38′; near corner of brick house, ¼ mile, 195° 36′; southeast peak of barn, 1¼ miles, 199° 41′; chimney on ell of house, ½ mile, 230° 14′; chimney on west end of house, 1⅛ miles, 319° 21′; northeast peak of long barn, 1½ miles, 341° 06′.

Clay (Kent County, C. C. Yates, 1909).—On the western shore of East Fork of Langford Creek, about ⅛ mile south of Lovely Cove, and ⅝ mile northwest of entrance to Philips Creek, in woods, about 20 feet above high water, and 6 yards southwest of edge of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 13-inch chestnut tree, 8.15 meters (26.74 feet), 48° 03′; nail in blaze in 9-inch oak tree, 5.06 meters (16.60 feet), 82° 57′; left tangent to chimney of brick house, ½ mile, 219° 05′; nail in blaze in

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12-inch oak tree, 4.61 meters (15.12 feet), 237° 49′; nail in blaze in 12-inch oak tree, 4.13 meters (13.55 feet), 296° 55′; west chimney of large brick house, 1¼ miles, 305° 43′; nail in blaze in 10-inch chestnut tree, 6.23 meters (20.44 feet), 329° 10′; nail in blaze in 10-inch chestnut tree, 6.24 meters (20.47 feet), 359° 42′.

Lovely (Kent County, C. C. Yates, 1909).—On the western shore of East Fork of Langford Creek, on north side of entrance to Lovely Cove, and ¾ mile northwest of entrance to Philips Creek, at edge of cultivated field, about 5 feet above high water, 12 yards north of shore, 1 yard north of top of slight slope, and 70 yards east of cut in shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 3-inch gum tree, 5.24 meters (17.19 feet), 36° 37′; nail in blaze in 3-inch locust tree, 13.99 meters (45.9 feet), 84° 07′; chimney on east end of brick house, ¼ mile, 170° 55′; near chimney of brick house, ½ mile, 242° 48′; nail in blaze in 3-inch locust tree, 2.28 meters (7.48 feet), 278° 37′; nail in blaze in 4-inch locust tree, 4.55 meters (14.93 feet), 279° 22′; chimney of large brick house, 1⅜ miles, 317° 17′; east peak of long barn, 2 miles, 334° 24′.

CORSICA RIVER

Corsica (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of Chester River, at north side of entrance to Corsica River, and about ⅝ mile south of Lower Spaniard Wharf, in a cultivated field, about 7 feet above high water, 16 yards east of shore, 11 yards east of edge of bank, and 5 yards south of young peach orchard. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 7 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left tangent of woods on Gordon Point, 2¾ miles, 39° 27′; chimney of small house, 3¾ miles, 91° 17′; south gable of barn, 2⅛ miles, 133° 11′; west gable of cornerib, ½ mile, 263° 53′; 24-inch locust tree, 150 yards, 304° 35′; north chimney of house, 1½ miles, 324° 45′; Earle's windmill, ¾ mile, 358° 07′; northeast corner of Earle's bathhouse, ¾ mile, 359° 29′.

Earle (Queen Annes County, C. C. Yates, 1909).—On the southern shore of Corsica River, on Town Bar Point, about ½ mile east of Chester River and 100 yards north of Earle Wharf, on marshland, about 1 foot above high water, 5 yards south of shore, and 19 yards north of a pond. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 3-inch locust tree, 11.07 meters (36.3 feet), 23° 21′; Earle's windmill, 300 yards, 53° 29′; east gable of barn, 3⅝ miles, 100° 43′; east gable of small house, 2¾ miles, 114° 48′; church steeple at Crosby, 3¾ miles, 131° 42′; south gable of Brown's house, 2¼ miles, 144° 31′; west chimney of house, ⅝ mile, 180° 15′; south gable of Emory's barn, ¾ mile, 233° 30′; west chimney of house, 1⅞ miles, 273° 32′; lone sycamore tree, ½ mile, 306° 05′; east chimney of house, ½ mile, 314° 18′; southeast pile at end of Earle Wharf, 100 yards, 344° 21′; nail in blaze in 5-inch locust tree, 12.92 meters (42.4 feet), 358° 40′.

Swepson (Queen Annes County, C. C. Yates, 1909).—On the northern shore of Corsica River, opposite Town Bar Point, about ½ mile east of Chester River, ⅝ mile north of Earle Wharf, and ⅜ mile west of Emory Wharf, on marshland, about 1 foot above high water, 12 yards north of shore, 10 yards south of lone cedar tree, and 12 yards east of small ditch draining swamp. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground; subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of house, ⅝ mile, 12° 22′; Earle's windmill, ½ mile, 39° 40′; nail in blaze in 15-inch cedar tree, 9.50 meters (31.17 feet), 198° 09′; south gable of Emory's barn, ½ mile, 250° 52′; west gable of barn, 1¾ miles, 300° 30′; north chimney of small house, 1½ miles, 323° 13′; chimney of small house, 2½ miles, 325° 22′; east chimney of house, ¾ mile, 334° 26′.

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Hydrographic (Queen Annes County, C. C. Yates, 1909).—On the southern shore of Corsica River, about 1⅛ miles east of Chester River, and ½ mile east of Earle Wharf, near edge of cultivated field, about 3 feet above high water, 20 yards south of shore, 4 yards south of edge of bank 3 feet high, and 400 yards north of lone sycamore tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to points of reference are as follows: Nail in blaze in 12-inch apple tree, 16.00 meters (52.5 feet), 82° 36′; southeast corner of Earle Wharf house, ½ mile, 110° 13′; church steeple at Crosby, 4¼ miles, 129° 25′; east gable of barn, 3½ miles, 134° 35′; south gable of barn, ¾ mile, 148° 34′; south gable of Emory's barn, ⅝ mile, 188° 40′; southwest corner of Emory Wharf house, ½ mile, 191° 06′; west gable of barn, ¾ mile, 230° 13′; west gable of barn, 1⅝ miles, 250° 59′; west chimney of house, 1¼ miles, 264° 18′; east chimney of house, ¾ mile, 346° 45′.

Engineer (Queen Annes County, C. C. Yates, 1909).—On the northern shore of Corsica River, about 1 mile east of Chester River, ⅝ mile northeast of Earle Wharf, and 50 yards west of Emory Wharf, on marshland, about 1 foot above high water, 12 yards north of shore, and 50 yards southeast of a pond. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 6-inch pear tree, 99.95 feet, 41° 03′; Earle's windmill, ⅞ mile, 60° 37′; lone cedar tree, 125 yards, 136° 06′; south gable of Emory's barn, 300 yards, 190° 23′; east chimney of Emory's house, 250 yards, 228° 11′; west chimney of house, 1⅜ miles, 288° 23′; northeast corner of Emory's Wharf house, 156.94 feet, 291° 59′; east chimney of house, ⅞ mile, 350° 55′.

Ruth (Queen Annes County, C. C. Yates, 1909).—On the southern shore of Corsica River, about 1½ miles east of Chester River, and ⅛ mile northwest of entrance to Tilghmans Cove, in a cultivated field, about 15 feet above high water, 10 yards south of shore, 2 yards west of edge of slope, and 6 yards south of edge of slope. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: East gable of small barn, ⅜ mile, 46° 42′; lone sycamore tree, ¾ mile, 57° 22′; east chimney of Earle's tenant house, 1 mile, 97° 57′; south gable of Sissel's barn, 1 mile, 134° 16′; southeast corner of Emory Wharf house, ⅝ mile, 151° 59′; south gable of Emory's barn, ¾ mile, 157° 51′; chimney of Emory's house, ¾ mile, 162° 03′; east post of front porch of house, ¾ mile, 207° 21′; nail in blaze in 24-inch oak tree, 9.98 meters (32.74 feet), 217° 35′; nail in blaze in 6-inch cedar tree, 14.30 meters (46.9 feet), 321° 39′.

Ship (Queen Annes County, C. C. Yates, 1909).—On the northern shore of Corsica River, on Ship Point, at west side of entrance to Emory's Creek, about 1⅞ miles east of Chester River, and ⅝ mile east of Emory Wharf, on a marsh point covered with bushes, about 1 foot above high water, 6 yards west of shore, and 75 yards south of a cedar tree covered with grape vines. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North gable of barn, ¾ mile, 42° 33′; Earle's windmill, 1½ miles, 80° 10′; left edge of Earle Wharf house, 1¼ miles, 82° 46′; east gable of barn, ¼ mile, 167° 45′; nail in blaze in 7-inch cedar tree, 12.52 meters (41.1 feet), 183° 44′; west gable of barn, 1¼ miles, 256° 16′; west chimney of house, 1¼ miles, 259° 11′; north chimney of house, 1¼ miles, 269° 10′; west chimney of house, ¾ mile, 290° 31′.

Melfield (Queen Annes County, C. C. Yates, 1909).—On the southern shore of Corsica River, about 1⅞ miles east of Chester River, 1 mile southeast of Emory Wharf, and ⅛ mile east of entrance to Tilghmans Cove, in a cultivated field, about 18 feet above high water, 10 yards south of shore, 5 yards south of edge of bluff, and 10 yards west of a ravine. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 6-inch locust tree, 13.85 meters (45.43 feet), 84° 59′; south chimney of Earle's house, 1⅜ miles, 99° 09′; left tangent of Emory Wharf, ⅞ mile, 138° 17′; east chimney of

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Emory Wharf, 1 mile, 146° 37′; southwest corner of wharf, ¾ mile, 182° 53′; cupola on Emory Wharf house, 1⅛ miles, 205° 20′; nail in blaze in 8-inch walnut tree, 3.81 meters (12.50 feet) 228° 01′; nail in blaze in 7-inch gum tree, 16.18 meters (53.08 feet), 288° 23′; west gable of barn, ⅜ mile, 303° 46′.

Bath (Queen Annes County, C. C. Yates, 1909).—On the southern shore of Corsica River, on Wash Point, about 2 miles east of Chester River, ½ mile west of Rocky Point, and ¼ mile southeast of Ship Point, on a marsh point, about 1 foot above high water, 15 yards east of shore, 13 yards west of a pond, and surrounded by a dense growth of bushes. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 8 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 15-inch pear tree, 6.79 meters (22.28 feet), 16° 06′; left tangent of peak of barn, 1 mile, 55° 32′; Earle's windmill, 1⅝ miles, 84° 37′; left edge of Earle Wharf house, 1½ miles, 87° 32′; east chimney of house, 1 mile, 117° 08′; south chimney of house, ⅝ mile, 151° 49′; west chimney of house, ¾ mile, 248° 06′; north one of two cedar trees on hill, ¼ mile, 297° 55′; nail in blaze in 12-inch hackberry tree, 3.06 meters (10.04 feet), 357° 18′.

REEDS CREEK

Bird (Queen Annes County, C. C. Yates, 1909).—On the southeastern shore of Chester River, on Gordon Point, at southwest side of entrance to Reeds Creek, about 1¼ miles southwest of Holton Point, in a marsh meadow, about 2 feet above high water, and 75 yards west of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 7 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Windmill, ½ mile, 13° 06′; chimney of house, ⅜ mile, 13° 32′; lone 12-inch pine tree, 300 yards, 84° 22′; south gable of barn, 2⅞ miles, 130° 19′; northwest corner of house, ⅝ mile, 244° 39′; north chimney of house, 1 mile, 314° 24′; north gable of house, 1½ miles, 358° 04′.

Reeds (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of Chester River, at northeast side of entrance to Reeds Creek, and about ⅝ mile south of Robins Cove, on marshland, about 2 feet above high water, 34 yards east of shore, 9 yards north of ditch draining swamp, and in center of triangle formed by three pine stubs driven flush with marsh to support theodolite. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North gable of house, 1⅜ miles, 18° 38′; chimney of house, ⅞ mile, 40° 12′; east chimney of Harris's house, 3⅛ miles, 122° 33′; chimney of house 3¼ miles, 164° 23′; east chimney of Brown's house, 3 miles, 174° 27′; chimney of cabin, 300 yards, 249° 21′; cupola on barn, 1¼ miles, 339° 01′.

Grove (Queen Annes County, C. C. Yates, 1909).—On the eastern side of Chester River, on point between Reeds Creek and Grove Creek, about ½ mile southeast of Gordon Point, in a meadow, about 2 feet above high water, 26 yards south of shore, 8 yards west of three persimmon trees, and 35 yards west of a pond. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North gable of barn, ⅝ mile, 9° 22′; east gable of house, ¾ mile, 22° 04′; south gable of house, ½ mile, 71° 26′; lone pine tree on Gordon Point, ½ mile, 122° 45′; nail in blaze in 5-inch sassafras tree, 10.34 meters (33.9 feet), 179° 21′; east chimney of house, ¾ mile, 213° 38′; south gable of barn, ¾ mile, 220° 13′; nail in blaze in 6-inch persimmon tree, 10.98 meters (36.0 feet), 253° 38′; cupola on barn, ⅝ mile, 276° 30′; cupola on Wright's barn, ¾ mile, 308° 48′.

Crow (Queen Annes County, C. C. Yates, 1909).—On the eastern side of Chester River, on western shore of Reeds Creek, about ½ mile south of extreme end of Gordon Point, in yard of tenant house, about 4 feet above high water, 12 yards west of shore, 5 yards south of pear orchard, and 7 yards north of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above sur-

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face of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Northeast corner of barn, 14.06 meters (46.1 feet), 32° 48′; northwest corner of barn, 12.68 meters (41.6 feet), 56° 00′; south gable of house near Cliffs Landing, 3¾ miles, 197° 26′; south gable of barn, 1¼ miles, 230° 41′; cupola of barn, 1½ miles, 267° 46′; northeast corner of Carnell's tenant house, 8.71 meters (28.58 feet), 293° 24′; northwest corner of Carnell's tenant house, 6.65 meters (21.82 feet), 323° 06′.

WEST RIVER

Curtis (Anne Arundel County, C. C. Yates, 1906).—On south side of entrance to West River, on west side of Curtis Point, north of entrance to Parish Creek, and about 250 yards northwest of a house standing back in the woods, about 10 feet above and 6 feet back from edge of bluff. Station mark is nail in pine stub flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 10.82 meters (35.5 feet) from station in azimuth 306° 28′. Distances and azimuths from the station to other points of reference are as follows: Peak of white house on opposite shore, 2 miles, 176° 07′; south peak of wharf house, ½ mile, 63° 56′; east chimney of yellow house, ¾ mile, 72° 14′; nail in blaze in 4-inch gum tree, 13.63 meters (44.7 feet), 298° 29′; nail in blaze in 5-inch locust tree, 15.65 meters (51.3 feet), 348° 20′.

Ches (Anne Arundel County, C. C. Yates, 1906).—On the north shore of West River, on point at west side of entrance to Rhode River, and about 300 yards east of entrance to Chestons Creek, about 21 feet back from edge of bank 15 feet high, and about 2 yards northwest of twin locust stump. Station mark is nail in pine stub flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 8.71 meters (28.58 feet) from station in azimuth 123° 45′. Distances and azimuths from the station of other points of reference are as follows: East chimney on white house on opposite shore, 1 mile, 27° 05′; chimney on small house, 200 yards, 89° 27′; chimney on small house on opposite shore, 1 mile, 331° 11′; west chimney on red-roof house on opposite shore, 1 mile, 345° 33′.

Shell (Anne Arundel County, C. C. Yates, 1906).—On the west shore of upper West River, about 300 yards north of entrance to Cox Creek, and ½ mile west of Cedar Point, on an oyster shell bank, about 8 feet above and 3 feet back from high-water mark. Station mark is nail in pine stub projecting 18 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 11.21 meters (36.8 feet) from station in azimuth 111° 57′. Distances and azimuths to other points of reference are as follows: Nail in blaze in 24-inch gum tree, 10.34 meters (33.9 feet), 32° 02′; nail in blaze in 5-inch cedar tree, 10.60 meters (34.8 feet), 125° 47′; southwest corner of white shanty, 1¼ miles, 210° 02′; chimney on small white house on opposite shore, ½ mile, 283° 25′; north chimney on red roof on opposite shore, ¾ mile, 313° 25′; west chimney on house on opposite shore belonging to Mr. Lerch, 1 mile, 340° 19′.

Alpha (Anne Arundel County, C. C. Yates, 1906).—On the north shore of West River, between Scaffold and Chestons Creeks, about 100 yards east of Scaffold Creek, and ¾ mile north of Cedar Point, and 200 yards west of small white shanty. Station is 10 feet above and 5 feet back from high-water mark. Station mark is an auger hole in a hickory stump. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 8.26 meters (27.10 feet) from station in azimuth 165° 40′. Distances and azimuths from the station to other points of reference are as follows: Tangent to Counallor Point, 1 mile, 19° 36′; peak of white house, ½ mile, 66° 56′; nail in blaze in 7-inch hickory tree, 11.33 meters (37.2 feet), 133° 39′; nail in blaze in 7-inch black oak tree, 9.74 meters (31.96 feet), 162° 25; nail in blaze in black oak tree, 7.58 meters (24.87 feet), 228° 54′; west chimney of house on opposite shore, 1 mile, 353° 33′.

Cove (Anne Arundel County, C. C. Yates, 1906).—On the south shore of West River, about ¾ mile northeast of Galesville, on Cedar Point, a low narrow neck of land, about 125 yards from its extreme south end. Station is about 6 inches above high water mark and 5 yards west of a blazed cedar stump. Station mark is nail in pine stub flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is

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5.41 meters (17.75 feet) from station in azimuth 218° 10′. Distances and azimuths from the station to other points of reference are as follows: Northwest corner of Hartge Wharf house, 350 yards, 3° 47′; Lerch's windmill, 1 mile, 5° 27′; southwest corner of small shanty on opposite shore, ¾ mile, 184° 41′; chimney on white house on opposite shore, 1 mile, 203° 42′; nail in blaze in 15-inch cedar stump, 4.60 meters (15.09 feet), 243° 04′.

Counallor (Anne Arundel County, C. C. Yates, 1906).—On the west shore of upper West River, about 250 yards north of steamboat wharf at Galesville, and on south side of entrance to Cox Creek, 22 feet back from edge of a 12-foot bluff, and about 6 feet north of old dead stump. Station mark is nail in pine stub flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 10.93 meters (35.9 feet) from station in azimuth 105° 37′. Distances and azimuths from the station to other points of reference are as follows: Chimney on Chalk Point Wharf house, ¼ mile, 18° 30′; chimney on Galesville Wharf, 250 yards, 26° 29′; east peak on Wayson's store, 250 yards, 58° 37′; cedar tree, 18.25 meters (59.9 feet), 153° 49′; Lerch's windmill, ½ mile, 316° 30′; east chimney on Mr. Hyde's house, ¾ mile, 356° 24′.

Apple (Anne Arundel County, C. C. Yates, 1906).—On the east shore of upper West River, opposite Galesville, about ¾ mile south by west of Cedar Point, about 45 yards east of southwest corner of V. Hartge's house, and 28 feet back from edge of bank 8 feet high. Station mark is nail in pine stub flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 7.17 meters (23.52 feet) from station in azimuth 286° 00′. Distances and azimuths from the station to other points of reference are as follows: Chimney on Chalk Point Wharf house, ¼ mile, 66° 20′; chimney on Galesville Wharf house, ½ mile, 89° 35′; east peak of Wayson's store, ½ mile, 91° 11′; chimney on store, ½ mile, 114° 02′; southwest corner of Hartge Wharf house, ½ mile, 204° 13′; 6-inch apple tree, 7.22 meters (23.69 feet) 252° 37′; twin apple tree, 11.40 meters (37.4 feet), 343° 36′.

Chalk (Anne Arundel County, C. C. Yates, 1906).—On the southeast side of upper West River, on west side of Chalk Point, about ¼ mile southeast of Galesville, 200 yards east of Chalk Point (steamboat) Wharf, and 4 feet above and 27 yards back from high-water mark. Station mark is nail in pine stub flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 8.15 meters (26.74 feet) from station in azimuth 71° 34′. Distances and azimuths from the station of other points of reference are as follows: Chimney on small yellow house, 100 yards, 86° 18′; chimney on Galesville Wharf house, 300 yards, 154° 02′. Lerch's windmill, ½ mile, 254° 47′; nail in blaze in twin locust tree, 7.32 meters (24.02 feet), 279° 23′; chimney on yellow house on opposite shore, ¾ mile, 296° 46′; east chimney on Mr. Hyde's house, ¼ mile, 354° 10′.

RHODE RIVER

Cato (Anne Arundel County, C. C. Yates, 1906).—On the north shore of West River, at east side of entrance to Rhode River, on extreme west end of a low sand point awash at high tide. Station is 75 yards west of 12-foot bank. Station mark is an auger hole in a pine stub projecting about 2 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 20.01 meters (65.6 feet) from station in azimuth 275° 27′. Distances and azimuths from the station to other points of reference are as follows: Chimney on white house on opposite shore, ½ mile, 47° 35′; cupola on large building, 1 mile, 110° 09′; south peak of packing house, 1 mile, 126° 06′; peak of Carr Wharf house, 1¼ miles, 154° 32′; chimney on red-roof house, ¼ mile, 178° 25′; Peak of Nowell Pier Wharf house, 1 mile, 345° 16.

Delta (Anne Arundel County, C. C. Yates, 1906).—On east shore of Rhode River, on point south of entrance to Cadle Creek, about ½ mile north of mouth of Rhode River, in a cultivated field about 300 yards southeast of Stiner's house and 15 yards back from edge of a bluff 12 feet high. Station mark is auger hole in pine stub. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 4.32 meters (14.17 feet) from station in azimuth 219° 51′. Distances and azimuths from the station of other points of reference are as follows: Nail in blaze in 3-inch

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locust tree, 17.19 meters (56.4 feet), 21° 23′; cupola on large building on opposite shore, ½ mile, 81° 53′; south peak of old packing house on opposite shore, ¼ mile, 95° 54′; southeast corner of Carr Wharf house, ¾ mile, 151° 13′; chimney on yellow house, ¼ mile, 176° 25′; chimney on red-roof house, 300 yards, 307° 32′.

Rhode (Anne Arundel County, C. C. Yates, 1906).—On west shore of Rhode River, about ½ mile from its mouth, on a low sand point just above high water mark and about 60 feet west of the extreme end of the point. Station mark is nail in pine stub flush with the ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 7.39 meters (24.25 feet) from station in azimuth 62° 43′. Distances and azimuths to other points of reference are as follows: Chimney on red-roof house, ¼ mile, 237° 55′; west chimney on red-roof house, 1½ miles, 352° 49′; nail in blaze on twin locust tree (4 inches diameter), 27.57 meters (90.5 feet), 28° 40′; nail in blaze on 5-inch locust tree, 24.25 meters (79.6 feet), 54° 55′; cupola on large building, ½ mile, 108° 19′.

Turf (Anne Arundel County, C. C. Yates, 1906).—On the west shore of Rhode River, on point at right-angle bend in river and ½ mile south of Carr Wharf. Station is on a low marshy point just above high water mark. Station mark is nail in pine stub. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 4.83 meters (15.85 feet) from station in azimuth 69° 16′. Distances and azimuths from the station to other points of reference are as follows: Chimney on white house on opposite shore, ½ mile, 275° 14′; chimney on red-roof house, 1 mile, 307° 56′; southeast corner of old barn, ¼ mile, 358° 31′; cupola on large building, ¼ mile, 47° 03′.

Etna (Anne Arundel County, C. C. Yates, 1906).—On the east shore of Rhode River, about 400 yards north of mouth of Cadle Creek, 6 feet back from edge of a bank 12 feet high, and in front of and 25 yards southwest of the second house north of Cadle Creek. Station mark is auger hole in pine stub projecting 3 feet above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 5.40 meters (17.72 feet) from station in azimuth 221° 44′. Distances and azimuths from the station of other points of reference are as follows: North peak of Murray Wharf house, 1 mile, 83° 35′; west chimney of house, 1¼ miles, 109° 45′; southwest corner of Carr Wharf house, ¼ mile, 141° 32′; south chimney on red-roof house, ¼ mile, 152° 58′; northwest corner of picket fence, 17.45 meters (57.3 feet), 168° 20′; southwest corner of picket fence, 11.85 meters (38.9 feet), 242° 27′.

Calf (Anne Arundel County, C. C. Yates, 1906).—On the northern shore of upper Rhode River, between Whitemarsh and Waters Creeks, and about 300 yards northwest of the extreme southeast end of point of land between those creeks, abreast of High Island, about ¼ mile west by north of Carr Wharf, and 25 feet back from edge of a bank 15 feet high. Station mark is nail in pine stub flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 4.96 meters (16.27 feet) from station in azimuth 212° 08′. Distances and azimuths from the station of other points of reference are as follows: Cupola on large house on opposite shore, ½ mile, 24° 58′; chimney on small white house on opposite shore, ½ mile, 84° 56′; west chimney on red-roof house on first hill north, 1 mile, 99° 16′; nail in blaze on 4-inch pine tree, 5.17 meters (16.96 feet), 171° 39′; southwest corner of Carr Wharf, 300 yards, 277° 37′; nail in blaze of 2-inch white-oak tree, 9.15 meters (30.02 feet), 297° 21′.

Cupola (Anne Arundel County, C. C. Yates, 1906).—On the west side of Rhode River, about ¾ mile above its mouth and ¼ mile back from shore. Station is spindle on belfry cupola on dark colored frame barn.

SOUTH RIVER

Arundel (Anne Arundel County, F. W. Perkins, 1898; 1906).—On north side of entrance to South River, on narrow neck of land between Fishing Creek and South River, about 5 feet above and 75 feet back from high-water mark in the creek. A sand road is 25 feet west of the station. Station mark is center of 4-inch tile pipe with top 1 foot below surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 4.07 meters (13.35 feet) from station in azimuth 225° 40′. Distances and

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azimuths from the station of other points of reference are as follows: South peak of white house on opposite shore, 2½ miles, 83° 23′; tangent to point, 1½ miles, 116° 18′; nail in blaze of 6-inch twin locust tree, 7.22 meters (23.69 feet), 226° 53′; south peak of long barn across Fishing Creek, ½ mile, 236° 17′; nail in 15-inch apple tree, 8.77 meters (28.77 feet), 315° 58′; chimney on red-roof cottage, 300 yards, 332° 39′.

Selby (Anne Arundel County, F. W. Perkins, 1898; 1906).—On the southwest shore of South River, on Turkey Point, 6 feet above high-water mark, and 250 yards south of extreme north end of point. A lone locust tree stands about 12 yards south of the station. Station marked in 1898 by two 4-inch tile pipes, one above the other, and a 4-inch pine stub with nail in top, note 19. Reference mark (1906) is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 7.81 meters (25.62 feet) from station in azimuth 38° 58′. Distances and azimuths to other points of reference are as follows: Nail in blaze in 12-inch locust tree, 10.65 meters (34.9 feet), 14° 37′; water tower (South River Club), 2 miles, 177° 58′; peak of red-roof house on opposite shore, 1½ miles, 179° 50′; peak of white house on opposite shore, 1½ miles, 209° 17′; locust stump, 1½ feet high, 11.30 meters, 268° 57′.

Gowan 3 (Anne Arundel County, J. A. Flemer, 1899; 1906).—On the western shore of Chesapeake Bay, on Saunders Point, between entrances to South and West Rivers, in the southeast corner of John Beard's orchard, 21.6 feet from edge of bluff about 30 feet above high-water mark and 7 feet from north fence of orchard. Distances and magnetic bearings to trees in the orchard marked with blazed triangles were as follows: Apple tree, 56.1 feet, 224° 45′; apple tree, 31.55 feet, 244° 30′; apple tree, 45.25 feet, 312°. The station was marked underground by a bottle 3 feet below the surface and another bottle (with screw top) 1 foot below the surface. In 1906 the station was found so close to the bluff that another station was put in near by and called "Gowan 1906" (see below).

Gowan (1906) (Anne Arundel County, C. C. Yates, 1906).—On the western shore of Chesapeake Bay, on Saunders Point, between entrances to South and West Rivers, 21 feet back from edge of bluff 25 feet high. Two blazed cedar trees stand about 12 yards south of station. Station marked by nail in stub with top flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey; it is 11.32 meters (37.1 feet) from station in azimuth 74° 20′. Distances and azimuths from the station to other points of reference are as follows: Nail in blaze in 10-inch cedar tree, 13.02 meters (42.7 feet), 356° 47′; nail in blaze in 12-inch cedar tree, 9.44 meters (30.97 feet), 23° 49′; peak of white house, ¼ mile, 65° 14′; south chimney of house, 100 yards, 134° 18′.

Thomas 3 (Anne Arundel County, J. A. Flemer, 1899; 1906).—On the west shore of Chesapeake Bay, on north side of entrance to South River, on small island known as Thomas Point. Station is about 30 feet back from top of bank, 34 feet above high water, and about 100 feet west of extreme east end of point. The station was marked by a bottle buried about 2.5 feet below surface of ground; a half brick with small drill hole in center is about 1 foot below surface, and the surface mark is a nail in a stub set flush with the surface. The reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 7.66 meters (25.13 feet) from station in azimuth 162° 35′. Distances and azimuths to other points of reference are as follows: Flag pole on wharf house, 1½ miles, 59° 37′; peak of white house, ¾ mile, 125° 58′; nail in blaze in 15-inch ash tree, 13.31 meters (43.7 feet), 228° 51′; nail in blaze in 5-inch locust tree, 9.64 meters (31.63 feet), 297° 26′.

Switch (Anne Arundel County, J. A. Flemer, 1899; 1906).—On the northeast shore of South River, on Persimmon Point, the point between Aberdeen and Harness Creeks. Station is on south side of low sand point, at high-water mark. A number of cedar trees stand in the immediate vicinity. Station mark is center of 4-inch tile pipe with top 2 inches below surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 8.41 meters (27.59 feet) from station in azimuth 149° 43′. Distances and azimuths to other points of reference are as follows: East chimney of house on opposite shore, 1 mile, 105° 06′; south chimney on almshouse, 1½ miles, 116° 28′; nail in blaze in 7-inch cedar tree, 3.58 meters (11.75 feet), 157° 17′; nail in blaze in leaning cedar tree, 12.76 meters (41.9 feet), 185° 48′; chimney of house on opposite shore, 1 mile, 346° 27′.

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Cedar (Anne Arundel County, J. A. Flemer, 1899; 1903).—On the southwest side of South River, on Cedar Point, between Glebe and Brewer Creeks. In 1906 reported as lost, and *Cedar (1906)* established (consult index).

Brewer (Anne Arundel County, J. A. Flemer, 1899; 1906).—On the southwest side of South River, on Larramore Point, at northwest side of entrance to Almshouse Creek. A small oak tree with triangular blaze bears S. 47° W., distance 18.6 feet; center of short large cedar stump bears S. 66° W., distant 9.1 feet; a large chestnut tree on bank with triangular blaze bears due west, distant 48.7 feet from station. Small persimmon stump, about 2 feet tall, bears N. 13° W., distant 8.6 feet from the station. Station mark is center of tile pipe with top set about 9 inches below surface of ground. In 1903 erosion had partly uncovered this pipe, and in 1906 a new station was established 19 feet to the west and called *Brewer (1906)* (consult index).

Waggaman (Anne Arundel County, J. A. Flemer, 1899; 1906).—On the northeast shore of South River, on west side of Ferry Point, on edge of bluff. A triangular blaze on gum tree bears N. 0° 30′ W. (mag.) from the station, distant 79.2 feet. This gum tree is the south one of a group of trees on north slope of ground near station. A triangular blaze on a pine tree bears S. 58° 50′ E. (mag.) from the station, distant 103.6 feet. A triangular blaze on a locust tree bears N. 81° 30′ E. (mag.) from the station, distant 41 feet. The gum and locust trees are on range with the northeast corner of the boat house which is just east of Ferry Point. Station is marked by center of tile pipe buried with top 10 inches below surface of ground. In 1906 the mark was recovered, but too near the waters edge for use, and a new station established called *Waggaman (1906)*.

Alms House (Anne Arundel County, J. A. Flemer, 1899; 1906).—On the southwest shore of South River, about halfway between Almshouse and Glebe Creeks, and about 200 yards east of county almshouse. It is on a low sod point about 6 inches above high-water mark. A group of locust trees stands just southwest of the station and an old white house stands on a hill about 100 yards to the southwest. Station is near landing at end of fence east of old house and is 9.9 feet west of this fence. Station mark is center of 4-inch tile pipe with top even with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 9.875 meters (32.40 feet) from station in azimuth 28° 16′. Distances and azimuths from the station to other points of reference are as follows: Nail in blaze in 5-inch locust tree 9.76 meters (32.02 feet), 17° 25′; nail in blaze in 5-inch locust tree 7.84 meters (25.72 feet), 53° 18′; north chimney of almshouse, 200 yards, 102° 27′; peak of Edgewater post office, 1½ miles, 137° 07′; Waggaman's windmill, ½ mile, 222° 18′.

Ginger (Anne Arundel County, J. A. Flemer, 1899; 1906).—On the northeast side of South River, on a bluff point known as "Poplar Point," about ½ mile east of South River Bridge. Station is 17 feet back from edge of bluff 35 feet high. Station marked by center of 4-inch tile pipe with top 2 inches below surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 7.81 meters (25.62 feet) from station in azimuth 191° 23′. Distances and azimuths from the station to other points of reference are as follows: Cupola on barn, ½ mile, 6° 33′; peak of wharf house, ½ mile, 69° 20′; nail in blaze in 18-inch oak tree 9.05 meters (29.69 feet), 113° 11′; peak of Edgewater post office, ½ mile, 115° 03′; nail in blaze in 2-inch mulberry tree 12.27 meters (40.3 feet), 139° 02′; nail in blaze in 8-inch locust tree, 5.92 meters (19.42 feet), 281° 21′; Waggaman's windmill, ¾ mile, 290° 42′; north chimney of almshouse, ¾ mile, 332° 40′.

Larramore (Anne Arundel County, J. A. Flemer, 1899; 1906).—On the southern shore of South River, on low marshy point near mouth of Beard Creek, and about ½ mile northeast of county bridge. Station is 18 feet back from high-water mark. A lone cedar tree stands near the shore about 75 yards back from the station. Station marked by nail in wooden stub inside a 4-inch tile pipe set with top about 3 inches below surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 7.96 meters (26.12 feet), from station in azimuth 34° 15′. Distances and azimuths from the station of other points of reference are as follows: Nail in blaze in 18-inch leaning mulberry tree, 17.85 meters (58.6 feet); lone cedar tree, 75 yards, 175° 14′; west chimney of house at Edgewater post office, ½

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mile, 258° 48′; south peak of Lee Wharf house, ½ mile, 298° 25′; east chimney of white house (first hill south), ½ mile, 323° 21′.

Hill (1906) (Anne Arundel County, C. C. Yates, 1906).—On northeast shore of South River, on Hills Point, at west side of entrance to Duvalls Creek, 50 feet back from extreme south end of Hills Point and 35 feet above high-water mark. Station mark is nail in pine stub projecting 3 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 8.07 meters (26.48 feet) from station in azimuth 217° 55′. Distances and azimuths from the station to other points of reference are as follows: Chimney on house on opposite shore, 1½ miles, 45° 33′; south chimney on almshouse, 2½ miles, 119° 23′; nail in blaze on 4-inch locust tree, 5.42 meters (17.78 feet), 196° 05′; water tower at South River Club, ¾ mile, 216° 00′; nail in blaze on 6-inch locust tree, 4.67 meters (15.32 feet), 240° 31′; north peak of barn, ½ mile, 231° 56′.

Mayo (1906) (Anne Arundel County, C. C. Yates, 1906).—On the southwest shore of South River, on Mayo Point, 25 feet southwest of low holly bush, 10 feet south of low sand knoll, 6 feet above and 40 feet back from high-water mark. Station mark is nail in wooden stub with top flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 5.95 meters (19.52 feet), from station in azimuth 42° 14′. Distances and azimuths to other points of reference are as follows: Nail in blaze in 12-inch red oak tree, 6.07 meters (19.91 feet), 62° 51′; nail in blaze in 8-inch cedar tree, 9.30 meters (30.5 feet), 94° 49′; south chimney on almshouse, 2¼ miles, 131° 43′; north chimney on Waggaman's house, 2¼ miles, 147° 10′; south chimney on red-roof house on opposite shore, ¾ mile, 178° 09′; green water tower (South River Club), 1½ miles, 225° 06′; north peak of old barn, 1 mile, 235° 16′.

Waggaman (1906) (Anne Arundel County, C. C. Yates, 1906).—On the northeast shore of South River, on first point south of entrance to Cross Creek, about 90 meters north of Ferry Point and the Waggaman wharf house, about 100 yards west of Waggaman's dwelling house, on top of a bluff 25 feet high and 15 feet back from its edge. Station mark is nail in pine stub flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 2.57 meters (8.43 feet) from station in azimuth 260° 41′. Distances and azimuths from the station of other points of reference are as follows: North chimney of almshouse, ½ mile, 47° 31′; cupola on barn on opposite shore, ½ mile, 76° 28′; north peak of Lee Wharf house, 1 mile, 96° 20′; nail in blaze in 4-inch pine tree, 4.70 meters (15.42 feet), 236° 06′; Waggaman's windmill, 100 yards, 270° 13′; nail in blaze in 8-inch locust tree, 9.41 meters (30.87 feet), 295° 00′; flagpole on Waggaman's house, 100 yards, 339° 43′.

Cedar (1906) (Anne Arundel County, C. C. Yates, 1906).—On the southwest shore of South River, on point between Glebe and Lonehouse Creeks on low sand point about 1 foot above and 6 feet back from high-water mark. A number of small cedar trees stand southwest of the station. Station mark is nail in stub flush with the ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 5.61 meters (18.41 feet) from station in azimuth 32° 11′. Distances and azimuths from the station to other points of reference are as follows: Nail in blaze in twin 9-inch cedar tree, 5.69 meters (18.67 feet), 43° 21′; nail in blaze in 4-inch locust tree, 5.11 meters (16.77 feet), 123° 26′; south chimney on almshouse, 1 mile, 133° 03′; flagstaff on Waggaman's clubhouse, 1 mile, 163° 51′; Waggaman's windmill, 1 mile, 166° 40′; north chimney of brown house on opposite shore, ¾ mile, 224° 30′.

Brewer (1906) (Anne Arundel County, C. C. Yates, 1906).—On the southwest shore of South River, on Larramore Point, at northwest side of mouth of Almshouse Creek, about ¼ mile northwest by north of county almshouse, and ½ mile west by south of Ferry Point. Station is 1 foot above and 10 feet back from high-water mark. Station mark is nail in pine stub flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 7.67 meters (25.16 feet) from station in azimuth 55° 01′. Distances and azimuths from the station of other points of reference are as follows: Nail in blaze in 12-inch leaning red oak tree, 6.61 meters (21.69 feet), 20° 55′; nail in blaze in 3-inch white oak tree, 9.11 meters (29.89 feet), 92° 44′; peak of yellow house on opposite shore, 1½

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miles, 221° 04′; Waggaman's windmill, ¾ mile, 258° 05′; flagpole on Waggaman's clubhouse, ¾ mile, 263° 15′; north chimney on almshouse, ¼ mile, 323° 57′.

Ximo (Anne Arundel County, C. C. Yates, 1906).—On the upper end of South River, near north entrance to South River Bridge crossing river at Edgewater. Station is 10 feet from high water, on sand beach near east edge of South River Road. It is on line with east guard rail of bridge and 18 feet distant from end of rail. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: North peak of wharf house, ¼ mile, 18° 12′; east chimney of white house on opposite shore, ¾ mile, 39° 20′; east peak of roof of Edgewater post office, 75 yards, 203° 06′; north chimney of almshouse, 1 mile, 318° 09′.

Yazoo (Anne Arundel County, C. C. Yates, 1906).—On the northern shore of upper South River, about ¼ mile above South River Bridge, on a low marsh point, about 1 foot above and 8 feet back from high-water mark. A lone tree stands west of the station on the opposite shore. Station mark is nail in pine stub flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 9.96 meters (32.68 feet) from station in azimuth 136° 14′. Distances and azimuths to other points of reference are as follows: Lone cedar tree on opposite shore, ¼ mile, 31° 37′; north peak of wharf house, 1 mile, 73° 54′; nail in blaze in twin oak tree (5 inches diameter), 5.27 meters (17.29 feet), 161° 19′; nail in blaze in 5-inch red-oak tree, 11.37 meters (37.3 feet), 187° 12′; north chimney of almshouse, 1½ miles, 312° 44′; north peak of Lee Wharf house, ¾ mile, 330° 00′.

Taylor (Anne Arundel County, C. C. Yates, 1906).—On the north shore of upper South River, about ¾ mile above the county bridge and opposite the entrance to Beards Creek. Station is 17 paces back from the extreme south end of a low sand point, and is 1 foot above and 8 feet back from high water mark. Several small persimmon trees stand near the station. Station mark is nail in pine stub set flush with the ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 4.22 meters (13.85 feet) from station in azimuth 82° 42′. Distances and azimuths to other points of reference are as follows: North chimney of yellow house on opposite shore, ¼ mile, 74° 54′; nail in 4-inch persimmon tree, 5.11 meters (16.77 feet), 85° 00′; nail in 15-inch cedar tree, 45 yards, 191° 16′; red post on porch of Edgewater post office, 1 mile, 275° 29′; lone cedar tree on opposite shore, 300 yards, 295° 39′; west chimney of white house on opposite shore, ½ mile, 313° 49′.

West Chimney (Anne Arundel County, J. A. Flemer, 1899).—Southwest of the south end of the Edgewater Bridge over the South River, on the site of the old Lee's homestead. Station is west chimney of lone house on hill.

Lees Wharf house, northeast gable (Anne Arundel County, J. A. Flemer, 1899).—On the south side of South River, on east side of Edgewater Bridge and near its southern end. Station is northeast gable on Lee Wharf house.

Waggaman's windmill (Anne Arundel County, J. A. Flemer, 1899; 1906).—On northeast shore of South River, on Ferry Point, just west of the Waggaman's house.

Pine (Anne Arundel County, J. A. Flemer, 1899).—On the northern side of South River, and on east side of Aberdeen Creek, on summit of a 70-foot knoll covered with pines of less height. Station is crotch of tall pine.

Clubhouse, south gable, flagstaff (Anne Arundel County, J. A. Flemer, 1899).—On north shore of South River, on Ferry Point. Station is the flagpole on southwest gable of Waggaman's clubhouse.

SEVERN RIVER

Gram (1906) (Anne Arundel County, C. C. Yates, 1906; 1910).—On the southwest shore of Annapolis Roads, near northwest entrance to Cat Hole Creek, about 1½ miles south-southwest of Greensbury Light, and 53 feet back from edge of a bluff 30 feet high. A small round knob is 60 feet west of and 5 feet higher than the station. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Nail in blaze in 4-inch

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locust stump, 22.95 meters (75.3 feet), 164° 36′; tangent to Horn Point, 1½ miles, 166° 08′; water tower, opposite Naval Academy, 2 miles, 174° 08′; south chimney of house on Greenbury Point, 2 miles, 203° 39′; nail in blaze on 3-inch locust tree, 26.40 meters (86.6 feet), 309° 27′; north tangent of roof of old Bay Ridge Hotel, 1 mile, 315° 11′.

Bluff (Anne Arundel County, G. L. Flower, 1903; 1910).—On the east side of Severn River, on a high bluff, opposite the Santee Wharf of the Naval Academy, 6 feet back from edge of a bank 25 feet high. It is about 30 meters up river from the highest point of the bluff. Station marked by a 4-inch tile pipe set with its top about 6 inches below the surface of the ground, inside of which and projecting 3 inches above the surface is a pine stub with nail in top. Reference mark is center of triangle on standard cement monument of Maryland Shell Fish Survey, note 16; it is 11.84 meters (38.8 feet) from station in azimuth 226° 56′. Distances and azimuths from the station to other points of reference are as follows: Statehouse dome, ¾ mile, 58° 54′; chapel dome, Naval Academy, ¾ mile, 62° 01′; St. John's College, ¾ mile, 69° 25′; west chimney of yellow house, ¼ mile, 151° 13′; nail in blaze in 18-inch locust tree, 25.93 meters (85.1 feet), 206° 09′; nail in blaze in 8-inch locust tree, 26.27 meters (86.2 feet), 263° 46′.

Brice (Anne Arundel County, G. L. Flower, 1903; 1910).—On the northeast shore of Severn River, on Brice Point, near northeast end of county bridge, 9 yards north of center of county road, 25 yards west of small pond, and 3 feet above and 75 feet back from high-water mark. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Chapel dome, Naval Academy, ½ mile, 4° 22′; statehouse dome, ¾ mile, 15° 50′; lowest bolt head in end post of ground rail on county bridge, 15.40 meters (50.5 feet), 19° 23′; chimney on bridge tender's house, ¼ mile, 55° 17′; south chimney of yellow house, ¾ mile, 111° 49′; chimney on slate-covered house, ½ mile, 144° 17′; north chimney of yellow house, ½ mile, 153° 25′; nail in blaze in 4-inch locust tree, 10.89 meters (35.7 feet), 162° 14′; west chimney of house, ¼ mile, 221° 16′; nail in blaze in 4-inch locust stump, 4.29 meters (14.07 feet), 293° 22′.

Bridge (Anne Arundel County, G. L. Flower, 1903; 1910).—On the southwest shore of the Severn River, on narrow belt of sandy grassy ground, 30 meters above the hedge on north side of road leading to county bridge over the Severn, 3.6 meters (11.8 feet) back from high water, and 6.26 meters (20.54 feet) southwest of the ditch entering the river and draining small swamp in the rear. Marked by a 4-inch sewer tile, centered by a pine stub, with a nail in the top to mark exact point. Reference mark is a 4-inch vitrified tile set in cement large end down, close to the field side of the north hedge along road, centered by a spike about 1 inch above ground, and distant 28.82 meters (94.6 feet), in azimuth 324° 11′. Subsurface mark is nozzle of bottle. Distances and azimuths to other points of reference are as follows: Big chestnut tree, about 100 meters, 10° 28′; southern stove pipe on roof of bridge tender's house, about 90 meters, 258° 55′. [

Field (Anne Arundel County, G. L. Flower, 1903; 1910).—On the southwest shore of Severn River, at the edge of a field, on first point east of railway bridge and ¼ mile north of county bridge, on a round-knob hill about 10 feet above high water, and 15 feet west of edge of low sand point extending 50 yards to the west. Station is about 15 meters north of northwest corner of dwelling house and about 40 meters above a new pier extending 80 meters out into the water. Station re-marked in 1906, the center now being marked by center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Blaze in 12-inch poplar tree, 7.18 meters (23.56 feet), 99° 07′; center chimney of lead-colored house on opposite shore, ¾ mile, 154° 08′; north chimney of yellow house on opposite shore, ½ mile, 181° 51′; blaze in 12-inch pine tree, 10.30 meters (33.8 feet), 293° 47′; chapel dome, Naval Academy, 1 mile, 338° 36′; hospital cupola, ¾ mile, 346° 31′.

Weems (Anne Arundel County, G. L. Flower, 1903; 1906).—On the southwest shore of Severn River, on first point south of Luce Creek, and first point above small inlet called "Cove of Cork," about ¾ mile above the railway bridge. The point is a low sand point covered with myrtle bushes, and the station is about 2½ feet above and 75 feet back from high-water mark at end of point.

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The ground rises abruptly about 150 yards west of the station. In 1906 a new station mark was set, and station is now marked by center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: South chimney of red house, 200 yards, 51° 28′; chimney in center of white house, 250 yards, 94° 31′; north chimney of white house on opposite shore, ½ mile, 185° 07′; north chimney of yellow house on opposite shore, ½ mile, 208° 01′; windmill on opposite shore, ½ mile, 233° 16′; north chimney of yellow house on opposite shore, ¾ mile, 260° 48′; water tower opposite Naval Academy, 2 miles, 302° 20′.

Knob 2 (Anne Arundel County, C. C. Yates, 1906).—On the north shore of Severn River, about 150 yards northwest by north of the north end of the Maryland Electric Railway bridge, on a round-knob hill, about 15 feet above and 30 feet back from high-water mark. Station mark is nail in pine stub projecting 4 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 11.28 meters (37.0 feet) from station in azimuth 216° 02′. Distances and azimuths from the station of other points of reference are as follows: South peak of yellow house, 2 miles, 118° 20′; north chimney of yellow house, 250 yards, 201° 53′; chimney on small shanty on railroad bridge, 150 yards, 294° 56′; chapel dome, Naval Academy, 1½ miles, 345° 37′; hospital (covered chimney or cupola), 1¼ miles, 352° 37′; statehouse dome, 1¾ miles, 354° 26′.

Gram (Anne Arundel County, F. W. Perkins, 1898).—On the southwest shore of Severn River, about 1 mile northwest of Tolly Point. In 1910 station definitely reported as lost. In 1906 a new station was established 35 feet inshore from old station, and called *Gram (1906)*.

Spring (Anne Arundel County, G. L. Flower, 1903; 1906).—On the northeast shore of Severn River, on the first point southeast of Coolspring Creek and about ¾ mile above the Maryland Electric Railway bridge. Station is on low sand point, about 2 feet above and 45 feet back from high-water mark; it is about 15 yards west of small pond and 100 yards west of bluff 25 feet high. In 1906 the station was remarked; station mark is now center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: North chimney on red house on opposite shore, ¼ mile, 45° 17′; chimney on white house on opposite shore, ¼ mile, 60° 40′; north chimney of yellow house, 200 yards, 177° 59′; oak stump (5 inches diameter), 2.35 meters (7.71 feet), 199° 13′; nail in blaze in 8-inch locust tree, 7.25 meters (23.79 feet), 261° 37′; water tower, opposite Naval Academy, 2 miles, 310° 41′; chapel dome, Naval Academy, 2 miles, 334° 41′.

Luce (Anne Arundel County, G. L. Flower, 1903; 1906).—On the southwest shore of Severn River, about 200 yards northwest of entrance to Luce Creek and 1¼ miles above railway bridge, on a low island at the mouth of Hammond Fish Pond, and about 2 feet above and 18 feet back from high-water mark. A number of small trees stand in the immediate vicinity. Station mark is nail in pine stub inside of a 4-inch tile pipe set with top flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 7.32 meters (24.01 feet) from station in azimuth 39° 47′. Distances and azimuths of other points of reference are as follows: Twin cedar tree (3 inches diameter), 15.75 meters (51.7 feet), 4° 04′; chimney on small white shanty, 200 yards, 9° 05′; chimney on yellow house, 1 mile, 134° 03′; east chimney on white house on opposite shore, ¾ mile, 177° 15′; chimney on small white house at mouth of Coolspring Creek, ½ mile, 257° 48′; nail in blaze in 5-inch persimmon tree, 6.07 meters (19.91 feet), 270° 59′; chimney on yellow house on first hill south, ¼ mile, 332° 11′.

Cool (Anne Arundel County, G. L. Flower, 1903; 1906).—On northeast shore of Severn River, on low point of land between Coolspring Creek and Chase Creek, about 1¼ miles above Maryland Electric Railway bridge, about 2 feet above and 20 feet back from high-water mark, and 7 feet south of a small drain ditch 2 feet wide. Station mark is nail in pine stub inside 4-inch tile pipe set with top even with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 7.25 meters (23.79 feet) from station in azimuth 195° 09′. Distances and azimuths from the station of other points of reference are as follows: Chimney on small white shanty on opposite shore, ½ mile, 27° 19′; chimney

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on yellow house on opposite shore, 1 mile, 112° 55′; west chimney of house, ½ mile, 154° 22′; nail in blaze in 4-inch persimmon tree, 16.50 meters (54.1 feet), 158° 01′; nail in blaze in 12-inch oak tree, 14.82 meters (48.6 feet), 284° 44′; water tower opposite Naval Academy, 2½ miles, 309° 53′; chimney on white house on opposite shore, ½ mile, 347° 03′.

Salt (Anne Arundel County, G. L. Flower, 1903; 1906).—On the southwest shore of Severn River, between Clements and Saltworks Creeks, and opposite Chase Creek, near edge of cleared field, 10 feet back from edge of bank 10 feet high. A number of small cedar trees stand on edge of bank in front of station. Station mark is nail in pine stub with top 2 inches below surface of ground; around this and with top 1 foot below surface is a 4-inch tile pipe. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 8.07 meters (26.48 feet) from station in azimuth 58° 08′. Distances and azimuths from the station to other points of reference are as follows: North chimney of red roof house, 80 yards, 65° 04′; center of large 30-inch oak tree, 50 yards, 121° 59′; chimney on yellow house, ½ mile, 139° 04′; nail in blaze on twin cedar tree (3 inches diameter), 5.88 meters (19.29 feet), 170° 17′; nail in blaze in 8-inch cedar tree, 7.20 meters (23.62 feet), 244° 21′; south chimney standing alone on opposite shore, 1 mile, 248° 12′; water tower opposite Naval Academy, 2½ miles, 303° 28′; chimney in center of yellow house, ¾ mile, 310° 22′.

Chase (Anne Arundel County, G. L. Flower, 1903; 1906).—On the northeast shore of Severn River, on low, marshy point at northwest side of entrance to Chase Creek, 2 feet above and 18 feet back from high water mark, and 25 yards southwest of foot of bluff 50 feet high. Station mark is nail in top of a pine stub with top 2 inches below surface of ground; the stub is inside a 4-inch tile pipe set with top 1 foot below surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 7.05 meters (23.13 feet) from station in azimuth 193° 53′. Distances and azimuths from the station of other points of reference are as follows: Middle window of yellow house opposite station, ¼ mile, 29° 24′; north chimney of red roof house on opposite shore, ½ mile, 54° 26′; chimney on yellow house on opposite shore, ½ mile, 98° 48′; north chimney of white house, 1 mile, 258° 56′; chimney on yellow house on opposite shore, ½ mile, 343° 06′; chimney on small shanty on opposite shore, ½ mile, 350° 23′.

Clem (Anne Arundel County, G. L. Flower, 1903; 1906).—On the southwest shore of Severn River, on low sand point between Clements Creek and Brewer Creek, about 2 feet above and 35 feet back from high-water mark. Station mark is nail in stub flush with ground set in 4-inch tile pipe with top 4 inches below surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 10.07 meters (33.0 feet) from station in azimuth 58° 51′. Distances and azimuths from the station to other points of reference are as follows: Chimney on yellow house, 300 yards, 86° 17′; small 2½-inch locust tree, 30 yards, 146° 58′; windmill on opposite shore, ½ mile, 231° 46′; water tower opposite Naval Academy, 3 miles, 307°, 19′; chimney in center of yellow house, 1 mile, 319° 13′; north chimney of house on south side of Clement Creek, ½ mile, 353° 03′.

Point (Anne Arundel County, G. L. Flower, 1903; 1906).—On the northeast shore of Severn River, about ½ mile east-southeast of Brewer Point, on second point northwest of mouth of Chase Creek. Station is at back of long, low marsh point, and is about 25 feet up side of slope. A stone about 1 foot square just shows above the ground 20 inches north of the station. Two lone cedar trees stand on a prominent hill about 150 yards to the northeast of the station. Several old apple trees stand in the immediate vicinity of the station. In 1906 the station was remarked; it is now marked by center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney on yellow house on opposite shore, ½ mile, 55° 08′; southwest corner of house, ¾ mile, 151° 27′; nail in 12-inch apple tree, 12.55 meters (41.2 feet), 245° 18′; windmill, 250 yards, 266° 59′; nail in 15-inch apple tree, 5.70 meters (18.70 feet), 292° 22′.

Brewer (Anne Arundel County, G. L. Flower, 1903; 1906).—On the southwest shore of Severn River, on Brewer Point at north of mouth of Brewer Creek. Station is on low sand point, about 2 feet above and 10 feet back from high-water mark and about 30 yards northwest of extreme end of point. A small holly tree stands southwest of the station and a bluff 30 feet high is 25

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yards southwest. Station mark is nail in pine stub with top 2 inches below surface of ground; the stub is inside a 4-inch tile pipe set with top 6 inches below surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 8.10 meters (26.57 feet) from station in azimuth 355° 19′. Distances and azimuths from the station to other points of reference are as follows: Nail in blaze in 5-inch holly tree, 3.64 meters (11.94 feet), 34° 33′; nail in blaze in 12-inch cedar tree, 35 yards, 96° 34′; north chimney of yellow house on opposite shore, ½ mile, 215° 47′; north chimney of green house with windmill in rear on opposite shore, ¾ mile, 286° 01′; north chimney of white house on opposite shore, 1 mile, 295° 55′; chimney in center of yellow house, 1½ miles, 322° 04′.

Sharp (Anne Arundel County, G. L. Flower, 1903; 1906).—On the southwest shore of Round Bay in Severn River, about ½ mile northwest of Long Point and ½ mile southeast of Cedar Point; it is on the first point of low land above Long Point. Station is 2 feet above and 25 feet back from high-water mark. A wooded bluff is 100 feet west of the station. Station marked by nail in pine stub with top 2 inches below surface of the ground; the stub is inside a 4-inch tile pipe with top 1 foot below surface. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 5.31 meters (17.42 feet) from station in azimuth 42° 01′. Distances and azimuths to other points of reference are as follows: Nail in blaze in 3-inch locust tree, 8.03 meters (26.35 feet), 16° 37′; chimney on yellow house, 1½ miles, 156° 22′; green water tower (opposite shore), 1 mile, 201° 15′; cupola on brown wharf on opposite shore, 1 mile, 250° 18′; chimney on red-roof cottage on opposite shore, 1 mile, 258° 23′.

Cedar (Anne Arundel County, G. L. Flower, 1903; 1906).—At the upper end of Round Bay in the Severn River, on Cedar Point, at the southeast side of entrance to Yantz Creek; it is 2 feet above and 50 feet back from high-water mark at extreme west end of point. Several cedar trees stand just east of the station. Station marked by nail in pine stub with top even with the surface of ground; the stub is inside a 4-inch tile pipe whose top is 1 foot below surface. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 7.92 meters (25.98 feet) from station in azimuth 225° 41′. Distances and azimuths from the station to other points of reference are as follows: Chimney on old house, 1 mile, 134° 18′; chimney on yellow house, ½ mile, 154° 19′; nail in blaze in 3-inch locust tree, 10.56 meters (34.6 feet), 211° 38′; green water tower, ½ mile, 262° 54′; chimney on red roof of cottage, 1¼ miles, 285° 50′; chapel dome, Naval Academy, 7 miles, 322° 52′.

Chase (Anne Arundel County, C. C. Yates, 1906).—On the west shore of Whitehall Bay, on point between Mill and Whitehall Creeks, about ¾ mile northwest of Hackett Point and ½ mile west by south of Whitehall Wharf, in a young peach orchard, about 30 feet back from edge of a bank about 18 feet high. Station mark is nail in stub flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 8.87 meters (29.10 feet) from station in azimuth 217° 49′. Distances and azimuths from the station of other points of reference are as follows: Lone tree (2 feet diameter), 300 yards, 177° 11′; center of Whitehall Wharf house, ¾ mile, 257° 11′; west chimney on red roof house on opposite shore, ¾ mile, 292° 12′; west edge of small shanty on beach on opposite shore, ½ mile, 304° 40′.

Spit (Anne Arundel County, C. C. Yates, 1906).—On the eastern shore of Whitehall Bay, on west side of Hackett Point, about ½ mile south of Whitehall Wharf, and 2 miles northeast of Greenbury Point, on a low sand point about 4 feet above and 50 yards back from end of point at high-water mark, and on a round sand knoll about 2 feet high. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: North chimney of house on opposite shore, ½ mile, 67° 07′; north chimney of Whitehall's house, ½ mile, 175° 15′; north chimney of white house, ½ mile, 183° 18′; peak of small house on Whitehall Wharf, ½ mile, 199° 27′; northwest corner of small shanty, 100 yards, 230° 30′; nail in 4-inch locust tree, 35 yards, 275° 20′; chimney on small house, 150 yards, 294° 03′.

Bight (Anne Arundel County, G. L. Flower, 1903; 1906).—On the northeast shore of Severn River, about ½ mile northeast of Brewer Point and ½ mile southeast of Arnold Point, on a low narrow neck of land at the upper side of

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entrance to Rays Pond, about 2 feet above and 15 feet back from high-water mark. It is 15 feet south of slope to a yellow sand bluff 60 feet high. A group of holly trees stands about 10 feet east of the station. Station marked by a nail in a pine stub with top 3 inches below surface of the ground; the stub is inside a 4-inch tile pipe set with top 12 inches below surface. Reference mark is center of triangle on standard cement monument of Maryland Shell Fish Survey, note 16; it is 11.64 meters (38.2 feet) from station in azimuth 209° 19′. Distances and azimuths from the station of other points of reference are as follows: South chimney of yellow house on opposite shore, ½ mile, 44° 41′; northwest corner of unpainted house on opposite shore, ¼ mile, 152° 02′; nail in blaze in 12-inch leaning pine tree, 3.72 meters, (12.20 feet), 183° 14′; nail in blaze in 4-inch holly tree, 3.79 meters, (12.43 feet) 258° 50′; eastern of two cedar trees standing close together (on first hill south), ½ mile, 00° 54′.

Round (Anne Arundel County, G. L. Flower, 1903).—On the south shore of Round Bay in the Severn River, 450 meters northwest of Brewer Point, on a low rounding point of land in front of a steep hill. A number of trees on the hillside were blazed facing the station. Station marked by a nail in a pine stub with top 2 inches below surface of ground. The stub is inside a 4-inch tile pipe with top 1 foot below surface.

Arnold (Anne Arundel County, G. L. Flower, 1903; 1906).—On the northeast shore of Severn River, on Arnold Point, on northwest side of entrance to Aisquith Creek and ½ mile north of Brewer Point, at the foot of the slope meeting a long, narrow neck of land extending about 200 yards southeast of the station. Station is 3 feet above and 12 feet back from high-water line. A small holly tree stands about 15 feet east of station. Station marked by nail in stub with top 3 inches below surface of ground; the stub is inside a 4-inch tile pipe with top 1 foot below surface. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 3.75 meters (12.30 feet) from station in azimuth 160° 49′. Distances and azimuths from the station to other points of reference are as follows: Center of cottage on Long Point, 1½ miles, 116° 40′; nail in blaze in 10-inch cedar tree, 5.96 meters (19.55 feet), 132° 29′; northwest corner of small house up Aisquith Creek, ¾ mile, 249° 02′; nail in blaze in 4-inch locust tree, 8.31 meters (27.26 feet), 287° 05′; chimney on yellow house on opposite shore, 1 mile, 351° 41′.

Bay (Anne Arundel County, G. L. Flower, 1903; 1906).—On the southwest shore of Severn River, on south side of entrance to Round Bay, about ¾ mile southeast of St. Helena Island, and ¾ mile south by east of Long Point. Station is at high-water mark, at foot of bluff 25 feet high. Station marked by the center of a 4-inch tile pipe projecting 10 inches above the surface of the ground. Reference mark is center of triangle on standard cement monument of Maryland Shell Fish Survey, note 16. It is 7.31 meters (23.98 feet) from station in azimuth 17° 08′. Distances and azimuths from the station to other points of reference are as follows: Nail in blaze in 8-inch oak stump, 3.73 meters (12.24 feet), 56° 50′; nail in blaze in 15-inch chestnut oak, 12.97 meters (42.6 feet), 98° 18′; southeast corner of cottage on Long Point, ¾ mile, 160° 39′; north chimney of white house on opposite shore, 1½ miles, 266° 12′; nail in blaze in 24-inch white oak tree, 16.50 meters (54.1 feet), 324° 23′.

Long (Anne Arundel County, G. L. Flower, 1903; 1906).—On north side of entrance to Little Round Bay in Severn River, on Long Point, about ½ mile northeast of St. Helena Island. Station is on low marsh point, about 2 feet above and 12 feet back from high-water mark. A small cottage stands about 30 yards north of the station. Station marked by nail in a pine stub with top 2 inches below the surface of the ground; the stub is inside a 4-inch tile pipe set with top 1 foot below the surface. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 5.05 meters (16.57 feet) from station in azimuth 118° 32′. Distances and azimuths from the station to other points of reference are as follows: Nail in blaze in 4-inch white oak tree, 10.19 meters (33.4 feet), 74° 45′; peak of cottage, 30 yards, 135° 10′; nail in blaze in 8-inch pine tree, 10.97 meters (36.0 feet), 152° 26′; cupola on brown wharf on opposite shore, 1 mile, 219° 06′; chimney on red-roof cottage, 1 mile, 228° 43′; west chimney on house on opposite shore, ¾ mile, 356° 33′.

Swan (Anne Arundel County, G. L. Flower, 1903; 1906).—On northeast shore of Round Bay in Severn River, on north side of entrance to Ringgold Cove,

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about 1 mile northeast by east of Long Point. Station is about 100 yards north of entrance to Ringgold Cove, about 2 feet above and 15 feet back from high-water mark, and 25 feet west of a bluff 25 feet high. Station mark is nail in pine stub with top even with ground; the stub is inside a 4-inch tile pipe with its top 1 foot below the surface. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 7.78 meters (25.52 feet) from station in azimuth 239° 17′. Distances and azimuths to other points of reference are as follows: Peak of yellow house on opposite shore, 1½ miles, 90° 42′; west chimney of white house, 1½ miles, 136° 32′; north tangent of brown wharf house, ¾ mile, 155° 31′; nail in 15-inch pine tree, 12.76 meters (41.9 feet), 199° 20′; nail in 24-inch red-oak tree, 12.50 meters (41.0 feet), 251° 41′.

Island (Anne Arundel County, G. L. Flower, 1903; 1906).—On Little Round Bay in Severn River, on southeast point of St. Helena Island, on a low marsh point about 2 feet above and 15 feet back from high-water mark, and 25 feet south of foot of round hill 15 feet high. Station marked by nail in a pine stub with top 2 inches below surface of ground; this stub is inside a 4-inch tile pipe set with top 1 foot below surface. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 7.74 meters (25.39 feet) from station in azimuth 145° 29′. Distances and azimuths from the station to other points of reference are as follows: South chimney of house, 1½ miles, 42° 16′; nail in blaze in 6-inch twin tree, 9.01 meters (29.56 feet), 148° 45′; nail in blaze in 6-inch twin black haw tree, 5.42 meters (17.78 feet), 191° 31′; chimney on red-roof cottage on opposite shore, 1½ miles, 227° 10′; north peak of white barn on opposite shore, 1½ miles, 241° 19′; chimney on north end of small house on opposite shore, 2 miles, 252° 53′.

High (Anne Arundel County, G. L. Flower, 1903; 1906).—On the northeast shore of Round Bay in Severn River, on Eaglenest Point, on ground occupied by the Round Bay resort. It is 15 feet back from edge of bank 20 feet high and 25 paces southwest of the southwest corner of the dancing pavilion. Station marked by nail in pine stub with top even with surface of ground. This stake is inside a 4-inch tile pipe set with top 1 foot below surface. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 8.66 meters (28.41 feet) from station in azimuth 201° 48′. Distances and azimuths from the station to other points of reference are as follows: Chimney on house on opposite shore, 1½ miles, 15° 16′; chimney on cottage on Long Point, 1 mile, 32° 12′; green water tower, ¾ mile, 121° 25′; nail in blaze in 8-inch pine tree, 7.98 meters (26.18 feet), 159° 48′; southwest corner of dancing pavilion, 25 yards, 188° 38′; nail in blaze in 7-inch pine tree, 7.58 meters (24.87 feet), 220° 48′.

Start (1910) (Anne Arundel County, O. W. Ferguson, 1910).—On the west bank of the Severn River, 1,000 meters below Horn Point, and 500 meters below the mouth of Back Creek. Station marked by standard cement monument of the Maryland Shell Fish Survey, note 16, it being the reference mark of station *Start (1906)* (in place). Reference marks are nails in triangles cut on trees with distances and azimuths as follows: 18-inch chestnut, 9.549 meters (31.33 feet), 16° 01′; 8-inch oak, 19.357 meters (63.51 feet), 99° 24′; 8-inch gum, 11.524 meters (37.81 feet), 131° 08′.

Fort (Anne Arundel County, G. L. Flower, 1903; 1910).—On northeast side of entrance to Severn River, about 1 mile northwest of Greenbury Point, and 1 mile northeast of Naval Academy sea wall, on land belonging to the United States Lighthouse Service, formerly used as a proving ground. Station is 6 feet back from top of bank protected by a masonry wall that has fallen down in places, 10 feet above high-water mark, and 2 feet north of a brick gutter on top of bank. It is 5 paces northwest of an old target pit. Station mark is a nail in a pine stub in the center of a 4-inch tile pipe set in the ground with top flush with surface. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 9.12 meters from station in azimuth 188° 22′. Distances and azimuths to other points of reference are as follows: St. Anne's Church spire, 1¼ miles, 68° 32′; statehouse dome, 1¼ miles, 79° 44′; chapel dome, Naval Academy, 1 mile, 86° 27′; south chimney of yellow house with red roof, 80 yards, 126° 58′.

Horn (1910) (Anne Arundel County, O. W. Ferguson, 1910).—In Eastport, 930 meters southeast of the sea wall in front of the Naval Academy, 550 meters above the mouth of Back Creek, on the crest of high receding bank,

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just outside of the limit of cultivation and opposite a broad bench in bank. Marked by a standard cement monument of the Maryland Shell Fish Survey, note 16, the subsurface mark being nozzle of bottle. Reference mark is the northeast corner of concrete foundation of large new dwelling house, distant 46.17 meters (151.5 feet), in azimuth 52° 49′. Another point of reference is center of triangular blaze in 8-inch locust tree on slope of bank, distant 7.59 meters (24.90 feet), in azimuth 165° 59′.

Flagstaff, Naval Academy boathouse (Anne Arundel County, G. L. Flower, 1903; 1910).—Center of flagstaff on northwest end of boathouse at Naval Academy near the Santee Wharf.

Bay Ridge stack (Anne Arundel County, F. W. Perkins, 1898; 1906).—On Tolly Point, at south side of entrance to Severn River. Station is center of highest part of brick smokestack at Bay Ridge resort.

MAGOTHY RIVER

Huddle (Anne Arundel County, J. B. Boutelle, 1898; 1906).—On the south shore of Magothy River, on Huddles or Humphreys Point (Ulmstead Point), about ¾ mile northeast of inner entrance to Forked Creek. Station is about 10 feet from edge of sandy bank 8 feet high. Station mark is nail in cement in tile pipe projecting 1 inch above the ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 4.99 meters (16.37 feet) from station in azimuth 24° 54′. Distances and azimuths from the station of other points of reference are as follows: Nail in blaze in 3-inch tree, 15.86 meters (52.0 feet), 14° 59′; nail in blaze in 14-inch tree, 5.86 meters (19.22 feet), 93° 54′; house on Dobbins Island, 1¼ miles, 236° 13′; house on hill back of Mountain Point, 2½ miles, 268° 09′.

Dobbins, flag (Anne Arundel County, J. B. Boutelle, 1898; 1906).—In the Magothy River, on Dobbins Island, southeast of a dwelling house. Observed station was a flag in a locust tree. Marked by a bottle buried 4 feet below the surface, and above it a drain tile set in cement, its top 3 inches below surface and center marked by large nail. The following distances and directions are from the station: South corner of house, 9.25 feet, northwest; north corner of cook house, 25.0 feet, southwest; locust tree, 8.5 feet, southeast., and maple tree, 30.0 feet, west. In 1906 a new station called *Dobbins 2* was established a short distance away (consult index).

Blackhole (Anne Arundel County, J. B. Boutelle, 1898).—On the north side of Magothy River, on Chest Neck at eastern side of entrance to Blackhole Creek. Station marked by a signal consisting of a piece of 2 by 3 inch timber with cross boards at top set in a box 3½ feet deep. Top of box is above surface of ground at high-water mark. A nail at center of triangle cut on a tree is 21 feet N. ½° W. from the station, and a similar mark on an oak tree is 127 feet northwest by west from the station.

Ferry (Anne Arundel County, J. B. Boutelle, 1898; 1906).—On the south shore of Magothy River, on Ferry Point, about ½ mile east of mouth of Dividing Creek, 15 feet back from and 3 feet above high-water mark. There are five cedar trees in close proximity to the station. Station marked by nail in cement in tile pipe buried 1 foot below surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 5.08 meters (16.67 feet) from the station in azimuth 24° 15′. Other distances and azimuths from the station of points of reference are as follows: Top of white house, ½ mile, 41° 32′; nail in blaze in 8-inch tree, 6.43 meters (21.10 feet); house on Dobbins Island, 2¼ miles, 259° 40′; nail in blaze in 4-inch forked tree, 9.74 meters (31.96 feet), 315° 44′; nail in blaze in 6-inch tree, 22.70 meters (74.5 feet), 344° 56′.

Ham (Anne Arundel County, J. B. Boutelle, 1898; 1906).—On north shore of Magothy River, on point at western side of entrance to Blackhole Creek. Marked with a piece of 2 by 3 inch timber with cross boards set in a box 3½ feet deep, with top just above surface of ground. An oak tree was marked with a nail in a triangular blaze; it is 21.5 feet north of the station. In 1906 the station was recovered and a new station, *Ham (1906)* (position not computed), was erected on a low sandy point making out from a bluff 15 feet high. It is 3 feet above high water, 10 feet back from high-water mark, and marked by a nail in a wooden stub projecting 3 inches above surface of the ground. It is 6.04 meters (19.82 feet) from the old station in azimuth 122° 46′.

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A reference mark, the center of triangle on a standard cement monument of the Maryland Shell Fish Survey, note 16, is 7.34 meters (24.08 feet) from the new station (1906) in azimuth 187° 03′. Distances and azimuths from the new station (1906) to other points of reference are as follows: Nail in blaze in 12-inch tree, 7.54 meters (24.74 feet), 246° 38′; house on Dobbins Island, 2¼ miles, 269° 41′.

Cat (Anne Arundel County, J. B. Boutelle, 1898).—On the southern shore of upper Magothy River, on a bluff between (south) Ferry Point and the mouth of Mill Creek, on land owned (in 1898) by A. A. Stinchcomb. It is north-northeast of an orchard and 3 feet from edge of bluff. Station marked by a piece of 4 by 4 inch timber with cross boards at top set in a box 3½ feet deep, with upper end about 6 inches above surface of ground.

Horn (Anne Arundel County, J. B. Boutelle, 1898; 1906).—On the south shore of the upper Magothy River, about ½ mile southeast of mouth of Cattail Creek and ½ mile north of Cypress Creek, on the east side of Deep Point, about 2 feet above and 10 feet back from high-water mark. Slope of bank begins at station and rises to an elevation of 20 feet and is covered with woods. A pile of stone surrounds the station. Station mark is nail in wooden stub with top 3 inches below surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 4.51 meters (14.80 feet) from station in azimuth 350° 13′. Distances and azimuths to other points of reference are as follows: Nail in blaze in forked tree, 5.21 meters (17.09 feet), 26° 32′; chimney of white house across river, ½ mile, 203° 09′; white house near mouth of Dividing Creek, ¾ mile, 346° 19′; nail in blaze in 4-inch tree, 7.82 meters (25.66 feet), 357° 23′.

Bank (Anne Arundel County, J. B. Boutelle, 1898; 1906).—On the north shore of upper Magothy River, about ¾ mile northwest from mouth of Blackhole Creek and nearly opposite Cypress Creek, on Stony Point, at the base of a bluff about 20 feet high. It is 2 feet above and 2 feet back from high-water mark. Several large brown bowlders are scattered in front of the station. Station mark is 2 by 3 inch pole set in a wooden box 3.5 feet deep with top of box 4 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 11.86 meters (38.9 feet) from station in azimuth 205° 44′. It can not be seen from the station. A cedar tree marked with nail in triangular blaze is 52 feet east-southeast, and a large bowlder 3 feet south from the station. Distances and azimuths from the station to other points of reference are as follows: Chimney on cabin (other side of river), ¾ mile, 23° 32′; chimney on east end of house, ½ mile, 115° 16′.

Tail (Anne Arundel County, J. B. Boutelle, 1898; 1906).—On the south shore of upper Magothy River, on Stony Point, at eastern side of entrance to Dividing Creek, on the upper edge of a bluff 15 feet high. Station marked by a 4 by 4 inch pole set in a box 3.5 feet deep, the upper edge of box being 2 inches above the surface of the ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 6.94 meters (22.77 feet) from station in azimuth 326° 49′. Distances and azimuths to other points of reference are as follows: Small hill on point at mouth of Dividing Creek, ¼ mile, 38° 26′; chimney on house on west shore of Dividing Creek, ¾ mile, 62° 44′. In 1898 two oak trees were marked with triangular blazes; one is 28 feet south-southeast and the other 107 feet northeast from the station; white house, 1¼ miles, 173° 00′; nail in blaze in 8-inch tree, 11.22 meters (36.8 feet), 284° 54′; nail in blaze in 6-inch tree, 3.14 meters (10.30 feet), 348° 23′.

Hickory 2 (Anne Arundel County, J. B. Boutelle, 1898; 1906).—On the northwest shore of Sillery Bay (Magothy River), on Hickory Bar Point, at west side of Tar Cove. Station is 1 foot above and 30 feet back from high-water mark and a short distance from extreme end of point. Station marked by nail in stub set in a box 4 inches square and 3.5 feet deep and projecting 6 inches above the ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 2.38 meters (7.81 feet) from station in azimuth 139° 15′. Distances and azimuths from the station of other points of reference are as follows: Right tangent of Dobbins Island, ¾ mile, 28° 00′; nail in blaze in old tree, 7.36 meters (24.15 feet), 143° 29′; left tangent to point at entrance to cove, 1 mile, 262° 20′; lone tree near station *Purse*, 3 miles 340° 24′. In 1898 an oak tree was marked with a triangle and nail; it was 36.75 feet west from the station.

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Bay (Anne Arundel County, J. B. Boutelle, 1898; 1906).—On north shore of Tar Cove, Sillery Bay (Magothy River), about ½ mile west of Long Point and 1½ miles northeast of Dobbins Island. Station is in edge of woods, about 2 feet above and 2 feet back from high-water mark. Station marked by nail in stub inside a 2 by 3 inch box, 3.5 feet deep, the stub projecting 6 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 4.55 meters (14.93 feet) from station in azimuth 178° 20′. Distances and azimuths from the station of other points of reference are as follows: Right tangent Dobbins Island, 1½ miles, 38° 16′; right tangent small island, 1¼ miles, 48° 12′; nail in blaze in 12-inch tree, 6.98 meters (22.90 feet), 141° 16′; nail in blaze in 12-inch tree, 9.41 meters (30.87 feet), 261° 54′; right tangent Gibson Island, 1½ miles, 355° 54′.

Phil (Anne Arundel County, J. B. Boutelle, 1898; 1906).—On the north end of Gibson Island, on Venus Point (Holland Point), at south side of entrance to Magothy Narrows, and opposite Long Point. Station is on northwest side of low sand spit at about high-water mark. Station marked by a 2 by 3 inch pole set in a box 3.5 feet deep with top of box about 6 inches above ground. Reference mark is center of a standard cement monument of Maryland Shell Fish Survey, note 16; it is 0.95 meters (3.12 feet) from station in azimuth 258° 31′. Distances and azimuths to other points of reference are as follows: Small white shanty, ¼ mile, 145° 58′; brown dwelling, ½ mile, 252° 08′; white dwelling (left end), ¾ mile, 314° 50′.

Welch 2 (Anne Arundel County, C. C. Yates, 1906).—On the southern end of Gibson Island, on top of a prominent hill, about ½ mile north by west of Mountain Point and 1½ miles southeast of Dobbins Island, in side yard of house belonging to James Ellison and 29.60 meters (97.1 feet) south of the northeast corner of house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Nail in blaze in 15-inch stump, 23.60 meters (77.4 feet), 141° 09′; northeast corner of porch of house, 29.60 meters (97.1 feet), 186° 08′; nail in blaze in 6-inch tree, 30.83 meters (101.1 feet), 240° 27′; left tangent of Sandy Point, 3 miles, 325° 56′.

Iron 2 (Anne Arundel County, C. C. Yates, 1906).—On the north shore of Magothy River, on extreme south end of Park Point, between entrances to Park and Broad Creeks, on top of a bluff about 15 feet high and about 15 feet back from its edge. Station mark is nail in wooden stub projecting 3 inches above the ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 5.01 meters (16.44 feet) from station in azimuth 140° 31′. Distances and azimuths from the station of other points of reference are as follows: Nail in blaze in 12-inch tree, 8.96 meters (29.40 feet), 114° 00′; nail in blaze of tree, 10.46 meters (34.3 feet), 146° 32′; nail in blaze in forked tree, 4.37 meters (14.34 feet), 209° 10′; house on Dobbins Island, ¾ mile, 276° 24′; lone tree near triangulation station *Purse*, 3 miles, 316° 26′.

Revell 2 (Anne Arundel County, C. C. Yates, 1906).—On the south shore of Magothy River, about 1¼ miles west-northwest of Persimmon Point and 1¼ miles south of east end of Dobbins Island, on a bluff 6 feet high and 22 feet from edge. It is in a large cleared space about 100 yards west of woods. Station mark is nail in wooden stub projecting 4 inches above ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 5.54 meters (18.18 feet) from station in azimuth 14° 00′. Distances and azimuths to other points of reference are as follows: House on Dobbins Island, 1¼ miles, 183° 58′; house on hill back of Mountain Point, 1½ miles, 249° 15′; right tangent to Mountain Point, 1½ miles, 273° 58′.

Purse (Anne Arundel County, C. C. Yates, 1906).—South of entrance to Magothy River, on a prominent hill, about ¼ mile south-southeast of Persimmon Point. Station is on the nearer of two summits, the other one being occupied by a lone cedar tree. Station is almost on line between this tree and Mountain Point. Station mark is nail in wooden stub projecting 4 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 8.93 meters (29.30 feet) from station in azimuth 355° 56′. Distances and azimuths to other points of reference are as follows: Lone cedar tree, 185 paces, south-southwest; left one

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of two prominent trees, ¼ mile, 99° 17′; right one of two prominent trees, ¼ mile, 105° 57; tangent to shore toward Sandy Point, ¾ mile, 202° 16′; right tangent to Gibson Island, 2 miles, 205° 26′; left chimney of farmhouse with red roof, ½ mile, 304° 42′.

Bluff 2 (Anne Arundel County, C. C. Yates, 1906).—On the west side of Gibson Island, and northwest shore of Magothy River, about 1 mile northwest of and near the center of the third prominent bluff from Mountain Point. Station is on top of a bluff 20 feet high, and in thick woods about 15 feet from the edge of the bluff. Station mark is nail in wooden stub flush with the ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 5.00 meters (16.40 feet) from station in azimuth 239° 31′. Distances and azimuths from the station of other points of reference are as follows: Left tangent Dobbins Island, 1 mile, 104° 54′; chimney of white house on Dobbins Island, 1 mile, 111° 06′; right tangent Dobbins Island, 1 mile, 114° 18′; nail in blaze in 15-inch tree, 7.94 meters (26.05 feet), 181° 47′; nail in blaze in 12-inch tree, 6.35 meters (20.83 feet), 266° 46′; lone tree near triangulation station *Purse*, 2 miles 352° 38′.

Dobbins 2 (Anne Arundel County, C. C. Yates, 1906).—On the north side of Magothy River, on extreme east end of Dobbins Island, on top of a bluff 25 feet high and about 30 feet back from its edge. Station mark is nail in stub projecting 3 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 3.37 meters (11.06 feet) from station in azimuth 69° 26′. Distances and azimuths from the station of other points of reference are as follows: Chimney of house on island, 150 yards, 50° 52′; tangent to Hickory Bar Point, ¾ mile, 187° 53′; yellow house, 1 mile, 255° 32′; lone tree near triangulation station *Purse*, 2¼ miles, 332° 01′.

Sillery 2 (Anne Arundel County, C. C. Yates, 1906).—On the west shore of Sillery Bay, on the northwest point of Gibson Island, about 1 mile northeast of Dobbins Island, on top of a bluff 6 feet high, and 15 feet back from its edge. It is about 50 feet south of the break of the bluff where a low marsh commences. A small stump stands about 1 foot distant with blaze facing the station. Station mark is nail in wooden stub with top flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 5.99 meters (19.65 feet) from station in azimuth 307° 09′. Distances and azimuths to other points of reference are as follows: Left tangent Dobbins Island, 1 mile, 52° 32′; chimney on house on opposite shore, 1 mile, 100° 06′; nail in blaze in 6-inch hickory tree, 9.39 meters (30.81 feet), 238° 29′; nail in blaze in 4-inch locust tree, 10.12 meters (33.2 feet), 284° 04′; unpainted building (seen through trees), ¼ mile, 318° 03′.

Stony Point 2 (Anne Arundel County, J. B. Boutelle, 1898).—On the extreme southern end of Gibson Island at the mouth of the Magothy River. Marked only by a hydrographic signal.

Moccasin (Anne Arundel County, J. B. Boutelle, 1898).—On a point of land northwest of Dobbins Island (Dutch Ship Island), and about 10 feet back from edge of bluff. Station marked by a 2 by 3-inch pole set in a box 3.5 feet deep, the top of the box being 4 inches above surface of ground. Middle one of three oak trees was marked with triangle and nail; it was 40 feet northwest by west from the station. A pine tree similarly marked was 56 feet north by east from the station.

Iron (Anne Arundel County, J. B. Boutelle, 1898; 1906).—On the north shore of the Magothy River, on extreme southeast end of Park Point and between the entrances to Park and Broad Creeks. Station is about 5 feet back from edge of bluff. Station marked by a 4 by 4-inch pole set in a box 3.5 feet deep with top of box 4 inches above surface of ground. One pine tree marked with a triangle and nail is 41 feet west by north of the station; another pine tree similarly marked is 42 feet northwest of the station; and an oak tree also similarly marked is 13 feet north by west from the station. In 1906 a new station was established near by, and called *Iron 2* (consult index).

PATAPSCO RIVER AND BALTIMORE

Bodkin Point (Anne Arundel County, E. W. Eickelberg, 1915).—On Bodkin Point, at south side of mouth of Patapsco River, on the northern side of the

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point and about 15 meters west of the ruins of the light keeper's house. Both the house and the old light tower are in ruins. The property was formerly a Government lighthouse reservation, but is now the property of a Mr. Foard. Station mark is a ¼-inch brass bolt in concrete monument flush with the ground. Reference mark, probably a disk, was set in southern side of point and stands about 6 inches above the surface; it is 15.47 meters (50.75 feet) from the station in azimuth 293° 34′.

Howard (Baltimore County, Baltimore Harbor Board; E. W. Eickelberg, 1915).—On the stone foundation of old North Point Lighthouse, on a sandstone slab about 2 feet wide and 6 inches thick. The point was remarked in 1915 using a standard bronze disk station mark.

White (Anne Arundel County, E. W. Eickelberg, 1915).—In the Patapsco River, off the mouth of Rock Creek and about ¾ mile northwest of Rock Point, on the outer of two large rocks known as White Rocks. Station is on southwestern corner of rock. A cross cut into the rock between the initials "H. B." is about 1 foot to the westward. Station marked by a standard bronze disk station mark cemented into the rock.

Sparrow (Baltimore County, Baltimore Harbor Board; E. W. Eickelberg, 1915).—On the north shore of Patapsco River, on Sparrows Point, in the southwest corner of the Maryland Steel Co.'s grounds, near a group of long bunk houses and close to a fire hydrant. It is practically the only site from which one can see both triangulation stations *Howard* and *Sollers*. Station mark is a standard bronze disk station mark set in concrete monument with top flush with the ground, note 1a. A 1-inch iron pipe reinforces the concrete. Reference mark is a concrete boundary monument with copper plug in top; it extends about 10 inches above the surface of the ground. It is 22.38 meters (73.43 feet) from the station in azimuth 163° 52′. The southeast corner of concrete commissary building is 23.78 meters (78.02 feet) from the station in azimuth 195° 57′. The station could not be readily recovered in 1924. The area was covered by an extensive fill consisting of slag and refuse. The reference points were destroyed.

Miller (Anne Arundel County, Baltimore Harbor Board; E. W. Eickelberg, 1915).—On the southern side of Patapsco River, on a bluff at west side of mouth of Stony Creek, about 30 feet above high water and 8 feet back from edge of bluff. Station is a little north of a small cottage called "Idle Hour" and is marked with a harbor board monument, a concrete monument with copper nail for center.

Armistead (Baltimore City, Baltimore Harbor Board; E. W. Eickelberg, 1915; 1924).—On the southwest side of Patapsco River, on Hawkins Point, on the Government reservation (*Fort Armistead*), on the first embankment above the sea wall. The station mark set by the harbor board is a concrete monument with copper nail as center. A standard disk reference mark was set in the sea wall just beyond the second break in the wall after leaving the dock. It is 52.63 meters (172.67 feet) from the station in azimuth 258° 19′.

Sollers (Baltimore County, E. W. Eickelberg, 1915).—On the northeast shore of Patapsco River, on Sollers Point, less than 12 feet back from river bank. Station mark is standard bronze disk station mark set in concrete monument with top flush with surface of ground, note 1a. A standard disk reference mark was set inshore on the edge of the swamp close to a line of trees; it is 12.30 meters (40.35 feet) from the station in azimuth 213° 17′. A small wild-cherry tree is 32.1 feet, and the near side of a flag pole is 102.4 feet from the station. In 1924 both station and reference marks reported destroyed by washing away of bank.

Quarantine (Baltimore City, Baltimore Harbor Board; E. W. Eickelberg, 1915; 1924).—On the southwest side of Patapsco River, on Leading Point, in the northern side of the Quarantine Station grounds. The station mark and the reference mark were both located on the edge of the embankment, the ground immediately to the south being cultivated. The station mark is that of the harbor board, a concrete monument with copper nail in center. A standard bronze disk reference mark was set in a concrete monument, note 11a; it is 13.72 meters (45.0 feet) from the station in azimuth 274° 13′.

Rosanne (Baltimore County, J. Ferguson, 1844; 1863).—On Prospect Hill, about 5¼ miles west from center of Baltimore city, and ¼ mile north of old Frederick Road, 18 feet from northeast corner of Bogue's house, 68 feet from cedar at southeast corner of house and 88.4 feet from persimmon tree about

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east-northeast of station, and in the carriageway leading from front door of house to stable. Subsurface mark is an iron cone; surface mark is copper nail in an oak post.

Oak (Baltimore County, C. H. Boyd, 1863).—About 3 miles west-southwest from the center of Baltimore city, about 1 mile south of the Frederick Turnpike, near the crossroad at Fairview Tavern, on a hill covered with a growth of scrub oak, on land belonging to a Mr. Keating. A pine marked with a blazed triangle is 16 feet east by south from the station. Station marked by a copper nail in a cedar post.

Riverview (Baltimore County, Baltimore Harbor Board; E. W. Eickelberg, 1915).—On the northeast shore of Patapsco River, on the southwest side of Point Breeze, in an open field, about 12 meters from an embankment near the water, and about midway between Riverview Park and the property to the westward. The station mark is that of the harbor board, a concrete monument with copper nail in center. A standard disk reference mark was set along the fence line of Riverview Park; it is 52.52 meters (172.31 feet) from the station in azimuth 266° 34′. This station is reported lost.

F. S. Royster (Baltimore City, E. W. Eickelberg, 1915; 1924).—On the southwest side of Patapsco River, about 1¼ miles south of Lazaretto Point, in the grounds of the F. S. Royster Guano Co. Station is small ball on top of high steel water tank on steel structure. Tank has round bottom, and the initials "F. S. R." are painted on its side.

Hanna (Baltimore City, E. W. Eickelberg, 1916).—In Brooklyn, on a hill, in the middle of Fourth Street extended, in a plowed field. Station marked by a concrete monument with top 20 inches below surface of ground. A group of five trees is near-by where a concrete reference monument with arrow pointing to station is located.

Bay View Asylum (Baltimore City, C. H. Boyd, 1863; 1915).—In the northeastern part of Canton (East Baltimore). Station is center of cupola on dome of Bay View Asylum.

Notre Dame tower, cross (Baltimore City, Baltimore City Survey, 1894; 1916).—About 4½ miles north of the center of Baltimore city. Station is center of large gilded cross on top of tower of Notre Dame School.

Canton, U. S. E. (Baltimore City, U. S. Engineers; E. W. Eickelberg, 1915; 1924).—On the north side of Patapsco River, about ⅝ mile southeast of Lazaretto Light, on the concrete pier of the Canton Co. Station is near the southwest corner of the pier, being 4.84 feet northeast of center of the curvature of the southwest corner. It is at the intersection of two expansion joints and is marked by a standard bronze station mark cemented in.

City (Baltimore City, E. W. Eickelberg, 1915).—On the southwest shore of Patapsco River, opposite Lazaretto Point, on property belonging to Baltimore City, about ⅛ mile west of Elliott Machine Co. Wharf, and on the fill directly back of a long wooden bulkhead which extends along the shore about 40 feet back from the bulkhead. Station marked by a standard bronze disk station mark set in cement about 2 inches below the surface of the ground. A copper plug surrounded by a triangle of nails was set in the top of a pile at slight angle in bulkhead; it is 15.29 meters (50.16 feet) from the station in azimuth 168° 22′. A 1-inch iron pipe was driven in the ground and left projecting about 8 inches; it is 6.24 meters (20.47 feet) from the station in azimuth 140° 40′. The harbor board station *Marine* is 55.13 meters (180.87 feet) from the station in azimuth 301° 47′.

McHenry (Baltimore City, E. W. Eickelberg, 1915).—At Fort McHenry, on the roof of the quartermaster office and warehouse building, the southernmost of a group of buildings in the Star Fort. The station is at the only point where one can see both up into the inner harbor and Middle Branch. It is marked by a cross on a piece of solder on the tin roof of the building. Harbor board station *Key* is 45.80 meters (150.3 feet) from the station in azimuth 268° 19′. The following distances are from the station to points on the building: To outer edge of west coping, 14.216 meters (46.64 feet); outer edge of east coping, 15.990 meters (52.46 feet); to outer edge of north coping, 1.140 meters (3.74 feet).

Furst (Baltimore City, E. W. Eickelberg, 1915).—On the southern shore of Patapsco River, on a low sandy point owned by the Arundel Sand & Gravel Co. To the eastward of the station is a small cove and large piles of sand and oyster shells. The station mark is a property line mark, and consists of

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a concrete monument flush with ground with copper nail for center mark. A standard bronze disk reference mark in a concrete monument, note 11a, was set in a small sand dune just above extreme high-water mark; it is 25.036 meters (82.14 feet) from the station in azimuth 0° 31′. The station was not recovered in 1924, but the reference mark was in good condition, on the boundary of the Maryland Dry Dock Co. near the shore end of the pile bulkhead.

Lazaretto (Baltimore City, E. W. Eickelberg, 1915).—On the northern shore of Patapsco River, on Lazaretto Point, on the timber flooring of the United States Lighthouse Service supply and repair station wharf. The station is marked by a copper plug surrounded by tacks. It is 13.28 feet from the north edge of the wharf and 7.17 feet from the west edge. The reference mark, a standard bronze disk of the U. S. E., is set in the cement pavement near the center door of the brick repair shop of the United States Lighthouse Service. It is 59.805 meters (196.21 feet) from the station in azimuth 294° 23′. This station has been reported lost.

Zell (Baltimore City, E. W. Eickelberg, 1915).—On the north shore of Patapsco River, about ¾ mile west of Fort McHenry (Star Fort), on the pier of the Zell Fertilizer Co., the first pier east of the Marine Basin. It is identical with the harbor board station *McLean*, and is marked by a concrete monument with copper nail for center. A standard disk reference mark was set in the eastern concrete wall of the pier near its outer end. It is 7.945 meters (26.07 feet) from the station in azimuth 4° 44′. In 1924 the pier was reported as covered by a shed; a plank flooring covers the dock, but the station is probably undisturbed. The reference mark was found in good condition. The pier is now owned by the city of Baltimore.

Arundel (H. B.) (Baltimore City, Baltimore Harbor Board; E. W. Eickelberg, 1915).—On the south shore of the Patapsco River, opposite Fort McHenry, on a low sandy bank, about 5 meters back from high-water line, and about 800 feet east of a small green shack. Just east of the station is a small cluster of bushes, and inshore from the station is a marsh. The station was marked by the harbor board, the mark consisting of a concrete monument with copper nail for center. A standard bronze disk reference mark set in a concrete monument and projecting 6 inches above the ground, note 1a, was placed 16.51 meters (54.17 feet) from the station in azimuth 60° 07′. At the reference mark the southeastern corner of the shed on one of the Western Maryland Railroad piers is on range with the Emerson Tower. In 1924 this station reported lost.

Elevator (Baltimore City, E. W. Eickelberg, 1915; 1924).—On the northern shore of Patapsco River, north of the entrance to the Middle Branch, on the roof of the Western Maryland Railroad elevator. Station is center of galvanized iron flagpole, which is fastened securely to the concrete roof of the building.

Gravel (H. B.) (Baltimore City, Baltimore Harbor Board; E. W. Eickelberg, 1915).—On the south side of the Patapsco River, opposite the mouth of the Middle Branch, 5 meters from edge of sand beach and about 80 meters east of a small boathouse in Yokels Park. The station is identical with the harbor board station of same name and is marked by a copper nail in a concrete monument. The reference mark is a standard bronze disk reference mark set in concrete monument projecting 6 inches above the ground, note 1a; it is about on range with the flagpole on a large building just to the westward, and is 15.113 meters (49.58 feet) from the station in azimuth 88° 17′. In 1924 reported destroyed by dredging operations.

Han (U. S. E.) (Baltimore City, U. S. Engineers; E. W. Eickelberg, 1915; 1924).—On the Hanover Street Bridge over Middle Branch, Patapsco River, in the eastern curb at the northern end of the bridge. It is approximately over the tenth small arch counting from the northern end. Marked by a standard station mark, set flush with the surface of the curb.

Over (U. S. E.) (Baltimore City, U. S. Engineers; E. W. Eickelberg, 1915; 1924).—On the southern side of Middle Branch, Patapsco River, on a small knoll near the southern end of the Hanover Street Bridge (under construction in 1915). The station is marked by a concrete monument centered by a standard U. S. C. & G. S. bronze marker. It is 69.2 feet southeast from the post at the top of the steps at the southeast corner of the bridge. A center line stake of the bridge was 29.69 meters (97.4 feet) from the station in azimuth 109° 51′. A standard bronze disk reference mark set in a concrete monument

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projecting 6 inches above the surface, note 11a, was placed on still higher ground further inshore; it is 22.11 meters (72.54 feet) from the station in azimuth 22° 45′. Both station and reference marks reported in good condition in 1924; both close to highway cut but not likely to be disturbed.

Gas (U. S. E.) (Baltimore City, U. S. Engineers; E. W. Eickelberg, 1915).—On the northwest side of Middle Branch, Patapsco River, at the eastern end of the Western Maryland Railroad bridge, 10.82 feet south of the southernmost rail, and 42.05 feet from semaphore on the other side of the track. Station marked by a standard station mark set in concrete monument with top flush with the ground. Harbor board station *Donaldson* (consult index), a 6 by 6 inch white marble monument located between the tracks and 8 feet east of end of bridge, is 25.274 meters (82.92 feet) from the station in azimuth 104° 34′.

Electric (U. S. E.) (Baltimore City, U. S. Engineers; E. W. Eickelberg, 1915).—On the western side of the Middle Branch of the Patapsco River near end of Western Maryland Railroad bridge. Station marked by a standard station mark set in concrete monument with top flush with ground. It is 3.246 meters (10.65 feet) south of the center of the southernmost rail, 9.45 meters (31.00 feet) west from end of bridge, and 6.23 meters (20.44 feet) east from nearest edge of semaphore. Harbor board station *Wabash*, a 6 by 6 inch white marble monument, located between the tracks, is 7.874 meters (25.83 feet) from the station in azimuth 223° 08′.

Hominy (U. S. E.) (Baltimore City, U. S. Engineers; E. W. Eickelberg, 1915).—At the head of Middle Branch, Patapsco River, near the foot of Warner Street, on Baltimore & Ohio Railroad property, on ground well above high water. To the eastward is a hominy mill and still farther east are large gas tanks. To the northward is a roundhouse and also the tracks of the Baltimore & Ohio and Annapolis Short Line railroads. The southwest corner of the hominy factory is on line with the northern edge of the larger of two gas tanks. Station marked by a standard station mark set in concrete monument with top flush with ground. A standard reference mark was set farther inshore with southwest corner of switch at Warner Street on range with the easterly edge of the Baltimore & Ohio elevator. It is 23.260 meters (76.31 feet) from the station in azimuth 226° 28′.

Wabash (H. B.) (Baltimore City, Baltimore Harbor Board; E. W. Eickelberg, 1915).—On the western side of Middle Branch, Patapsco River, 14.23 feet west of west end of Western Maryland Railroad bridge, 3.69 feet north of north rail of south track, and 3.86 feet south of the south rail of north track. Marked by a white marble post, 6 inches square, with "H. B." cut in top.

Donaldson (H. B.) (Baltimore City, Baltimore Harbor Board; E. W. Eickelberg, 1915).—On the eastern side of Middle Branch, Patapsco River, 8.12 feet west of eastern end of Western Maryland Railroad bridge, 4.7 feet south of the south rail of the north track, and 3.97 feet north of the north rail of the south track. Station mark is a white marble post, 6 inches square, with "H. B." cut in top.

Fishing (Baltimore City, E. W. Eickelberg, 1915; 1924).—On Fishing Point, at the northern side of entrance to Curtis Bay. Station marked by standard bronze disk station mark set in concrete monument with top flush with ground, note 1a. A piece of 2 by 2 inch timber was driven into the marshy ground and extends up into the concrete monument. A standard bronze disk reference mark was set at the intersection of the two ranges, Prudential Oil Co.'s stack with Wagners church spire, and Livingston's smokestack (in Stone House Cove), with an electric light pole about 30 feet back from bulkhead of the oil dock. The reference mark is 18.830 meters (61.78 feet) from the station in azimuth 119° 39′. Recovery of 1924 gives additional information as follows: The station is on property of the Mexican Petroleum Corporation and is now located near the most southeasterly of a battery of six tanks lying over toward the Texas Co.'s plant and about 15 feet from the tank within the firewall surrounding it. It is covered by about 4 feet of fill but is possible of recovery by means of a barrel placed around the mark when the filling was in progress. The reference mark is lost.

Sledds (U. S. E.) (Baltimore City, U. S. Engineers; E. W. Eickelberg, 1915; 1924).—On the southern side of Curtis Bay, on Sledds Point, on property of Davis Chemical Co. Marked by a concrete monument with copper bolt for center. Harbor board station *Yacht Club* (consult index) is 25.85 meters (84.81 feet) from station in azimuth 211° 54′. Station is 105.4 feet from west corner of building and 70.25 feet from its north corner.

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Stone (Baltimore City, E. W. Eickelberg, 1915; 1924).—On the northern side of Curtis Bay, at east side of entrance to Stone House Cove, on property of the Livingston Co. The station is directly in front of a small blue cottage which stands near the company's eastern property line. Station marked by a standard bronze disk station mark set in concrete monument, note 1a. The following distances and azimuths are from the station: Southwest corner of cottage, 13.52 meters (44.36 feet), 139° 54′; southeast corner of cottage, 14.96 meters (49.08 feet), 179° 50′; iron base of flagpole (nearest edge), 11.95 meters (39.2 feet), 76° 13′.

Dome (Baltimore City, E. W. Eickelberg, 1915; 1924).—On a hill, ⅞ mile from the quarantine station and the same distance from Sledds Point. Station is small spindle on top of a tile silo.

Flood (Baltimore City, Baltimore Harbor Board; E. W. Eickelberg, 1915).—On Ferry Point, on the west side of Curtis Bay, about ½ mile north of bridge over Curtis Creek, and on the sandy beach at entrance to Cabin Branch. Station mark not known. Standard bronze disk reference mark was placed inshore from the station and on a grassy plot. It is 12.901 meters (42.33 feet) from the station in azimuth 130° 10′. In 1924 the station had perhaps been lost on account of filling and the placing of an oil tank in the vicinity. It may possibly be recovered by digging about 4 feet.

Curtis (Baltimore City, E. W. Eickelberg, 1915; 1924).—On the west side of Curtis Creek, about ¼ mile north of bridge, on an old (oyster shell) fill wharf. It is 82.42 feet from the southeast corner of wharf, 86.11 feet from northeast corner, and 59.32 feet from outside face. Station marked by a standard disk set in a concrete monument, note 1a, with top flush with ground. Reference mark is a granite post projecting 6 inches above the ground. This is a boundary monument of the Stoll property and has the initial "S" carved on it. It is 60.905 meters (199.82 feet) from the station in azimuth 77° 56′. An iron pump back from the wharf is 52.513 meters (172.28 feet) from the station in azimuth 107° 26′. In 1924 this station was recovered in a damaged condition; the top of the concrete containing the marker broken off; the reference mark in good condition. The property now belongs to the American Oil Co.

Creek (Baltimore City, E. W. Eickelberg, 1915; 1924).—On the east side of Curtis Creek, about 50 feet north of bridge, on the S. Agnes Watson estate, and between driveways leading to wharf. The wharf was reported in 1924 as destroyed. The station is marked by a standard bronze disk station mark, note 1a, set in a concrete monument with the top flush with the ground. Reference marks were triangles formed of nails driven into trees at the following distances from the station: Small locust tree near the beach, 9.20 meters (30.2 feet); large oak tree, 8.72 meters (28.6 feet); small locust tree, 2.62 meters (8.6 feet). In 1924 the oak was reported to have blown down and the station to be 9.3 meters (30.5 feet) from the center of the trunk just above the root. An additional reference was given as follows: Two large transformer poles carrying electric cables are located near the end of the bridge. The nearer pole is 13.81 meters (45.3 feet) from the abutment of the bridge, and the station is 22.31 meters (73.2 feet) from this pole at right angles to the center line of the bridge. A standard bronze disk reference mark, about 10 feet from the roadway, is 18.72 meters (61.4 feet) from the station in range with the stacks of the Prudential Oil Co.

Roland (Baltimore City, E. W. Eickelberg, 1916).—In Roland Park, on a steel water tank which is surrounded by a masonry structure. At the top of the tower is an open pavilion with concrete floor. Station falls on copper drain at the center.

Arlington (Baltimore City, E. W. Eickelberg, 1915).—In West Arlington, on Garrison Avenue, on a steel water tower surrounded by masonry structure. On top of the tower is an open pavilion. Marked by a tack in the wooden floor.

Marine (H. B.) (Baltimore City, Baltimore Harbor Board; E. W. Eickelberg, 1915; 1924).—On the southwest shore of Patapsco River, opposite Lazaretto Point, and 55.13 meters (180.87 feet) from station *City* in azimuth 301° 47′. *Marine* is 34.5 feet back from timber bulkhead at a point 204.8 feet southeast of angle in bulkhead line, and about ¼ mile west of eastern boundary of old quarantine hospital grounds. Station mark is hole drilled in top of a white marble post, 6 inches square, and projecting about 8 inches above the ground. The letters "H. B." are cut in the stone.

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Smallwood (H. B.) (Anne Arundel County, Baltimore Harbor Board; E. W. Eickelberg, 1915).—On southern side of Patapsco River, on Rock Point, 91.139 meters (299.01 feet) from station *Rock Point (1906)*, in azimuth 116° 25′.

Brooks (H. B.) (Baltimore City, Baltimore Harbor Board; E. W. Eickelberg, 1915).—On the northern shore of Patapsco River, about ½ mile southeast of Lazaretto Point. It is 3.165 meters (10.38 feet) from station *Canton (U. S. E.)* (consult index), in azimuth 32° 14′.

Tyson 2 (Baltimore City, D. B. Wainwright, 1896; 1915).—On the southwest side of Patapsco River, just above Wagners Wharf, on a large (acid refuse) fill pier belonging to the Tyson Chemical Co. The next pier to the southward is a lumber pier. The station mark was placed by the harbor board and is a hole drilled in a marble monument. Two reference bolts were set in the cap log of the pier, surrounded by cut triangles, into the sides of which nails were driven. These bolts are at the following distances and azimuths from the station: 5.86 meters (19.23 feet), 217° 05′; 9.66 meters (31.69 feet), 317° 05′. In 1924 the station and reference marks were reported lost. The dock has apparently been bulkheaded with a concrete wall and additional fill has been made.

Dundalk (Baltimore County, E. W. Eickelberg, 1915; 1924).—On the northeast shore of Patapsco River, about ⅞ mile southeast of Point Breeze, on the property of Burns & Russell Co. and about 200 feet north of the company's pier. Station marked by a standard bronze disk station mark set in concrete monument, note 1a, with top flush with ground. A standard disk reference mark was set in a concrete monument, note 1a, on opposite side of small roadway from station; it is 11.025 meters (36.17 feet) from the station in azimuth 177° 48′. A locust tree marked with a triangle of nails in a blaze is 6.1 meters (20.0 feet) west of north from the station, and a 2-inch iron pipe on west side of roadway is southeast of the station a distance of 9.3 meters (30.5 feet). Recovery of 1924 gives additional information as follows: Refuse from brick plant covered the station to a depth of 2 feet or more. It was dug out and walled in by brickwork. Reference mark in the front yard of one of the cottages; in good condition. The station is 185.5 feet from the west corner of the most westerly brick kiln of the abandoned lower brick yard of Burns & Russell.

Leading 2 (U. S. E.) (Baltimore City, O. H. Tittmann, 1886; 1924).—On southwest side of Patapsco River, on Leading Point, in the marine hospital reservation, close to the upper edge of a steep terrace. Marked by a drill hole in a marble monument 6 inches square and 30 inches long.

Key (Baltimore City, E. W. Eickelberg, 1915; 1924).—At Fort McHenry, on top of parapet near extreme eastern vertex of the main inner (Star) fort. It is 68.4 feet southeast of flagstaff; 39.9 feet from outside extreme eastern vertex; 63.1 feet from the outer angle to the north; and 38.0 feet from the outer angle to the west. Station marked by copper plug in concrete monument.

Western Maryland open pier (Baltimore City, E. W. Eickelberg, 1915).—On the north side of Patapsco River, about ⅝ mile northeast of Ferry Bar, on the Western Maryland Railroad pier, the third pier east of a large elevator. The station is marked by a standard station mark set in a concrete monument, note 1a. The reference mark is a copper nail set in cement in the top of an iron cleat on the southeast corner of the dock; it is 9.022 meters (29.60 feet) from the station in azimuth 44° 10′. In 1924 the station reported destroyed; its position may be recovered very closely by the reference mark.

Basket (U. S. E.) (Baltimore City, U. S. Engineers; E. W. Eickelberg, 1915).—On the southwest side of Smith Cove, a small cove in Middle Branch, Patapsco River, on the property of the Maryland Veneer & Basket Co., and between that company's wharf and the wharf of the Westport Brick Co. Station is on a high bank about 8 feet back from its edge. It is close by a telephone guy pole and also a large vat. A blaze was cut in a 14-inch chestnut tree distant 10.3 feet southwest of the station. The station mark is standard station mark set in a concrete monument. A standard disk reference mark was set in a concrete monument with top projecting about 6 inches above the ground. It is 16.478 meters (54.06 feet) from the station in azimuth 23° 30′. The station reported lost in 1924 but the reference mark recovered in good condition.

Chemical (U. S. E.) (Baltimore City, U. S. Engineers, 1916; 1924).—At the south side of Curtis Bay, 47.24 meters (155.0 feet) southeast from the northerly

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corner of a building near the bluff, 20.27 meters (66.5 feet) northeast from a dead tree, and 9.57 meters (31.4 feet) west of another dead tree on the other side of a fence. Marked by a concrete monument centered by standard U. S. E. bronze marker.

Asphalt (U. S. E.) (Baltimore City, U. S. Engineers, 1916).—On the north side of Curtis Bay, at East Brooklyn, nearly south of a frame building, west of a brick walk leading from the building to a wharf, 1.11 meters (3.65 feet) nearly east from a poplar tree, 8.64 meters (28.35 feet) from the southwest corner of the building, and 9.51 meters (31.20 feet) from the southeast corner of same. The station is marked by concrete monument centered by a standard U. S. E. bronze marker. In 1924 this point reported lost.

Sugar (U. S. E.) (Baltimore City, U. S. Engineers, 1916; 1924).—At the head of Curtis Bay, at the west side of the mouth of Curtis Creek, near the southeast corner of old Sugar Refinery Wharf, and 3.66 meters (12.0 feet) east of the southeast corner of the building. The station is marked by a concrete monument centered by a standard U. S. E. bronze marker.

House (U. S. E.) (Baltimore City, U. S. Engineers, 1917).—At the west side of Stone House Cove and east of Eagles Home. The station is marked by a concrete monument centered by a standard U. S. E. bronze marker. It is 7.41 meters (24.3 feet) nearly east from the southeast corner of the piazza of Eagles Home, and 13.87 meters (45.5 feet) southeast from the northeast corner of the piazza. This station reported lost in 1924.

Davidson (U. S. E.) (Baltimore City, U. S. Engineers, 1916; 1924).—At the east side of Curtis Creek and near the northwest corner of a summer cottage. The station is marked by a concrete monument centered by a standard U. S. E. bronze marker. It is 3.05 meters (10.0 feet) south from a tree, 3.87 meters (12.7 feet) southwest from another tree, 1.92 meters (6.3 feet) west of the northwest corner of the piazza of the cottage, and 9.54 meters (31.3 feet) from the southwest corner of the piazza.

Cabin (U. S. E.) (Baltimore City, U. S. Engineers, 1916).—West of Curtis Creek, at the south side of Cabin Branch, 2.19 meters (7.2 feet) southeast from the northeast corner of a building, and 1.98 meters (6.5 feet) northwest from the most northerly corner of another building. The station is marked by a concrete monument centered by a standard U. S. E. bronze marker. This station reported lost.

Smith (U. S. E.) (Baltimore City, U. S. Engineers, 1916).—West of Curtis Creek, south of road, 37.80 meters (124.0 feet) northwest from the northwest end of the bridge over Curtis Creek, 9.1 meters (30 feet) southwest of a pole at the northerly side of the roadway, and 6.1 meters (20 feet) northwest of another pole at the south side of the roadway. The station is marked by a concrete monument centered by a standard U. S. E. bronze marker. This station reported lost in 1924.

St. Helena (U. S. E.) (Baltimore City, U. S. Engineers, 1916; 1924).—On the north side of Patapsco River, at the east side of the mouth of Colgate Creek, and between the rails of the south track of the electric railway. It is 63.09 meters (207.0 feet) southeast along the center line of the track from the abutment of the trestle. The station is marked by a concrete monument centered by an iron plug.

Iron Ore (U. S. E.) (Baltimore City, U. S. Engineers, 1916; 1924).—North of the Patapsco River, near the south end of Iron Ore Pier, 3.182 meters (10.44 feet) back from the south face of the pier, 9.84 meters (32.3 feet) from the southeast corner, and 10.03 meters (32.9 feet) from the southwest corner. The station is marked by a wire nail surrounded by 6 wire nails.

Fidelity (U. S. E.) (Baltimore City, U. S. Engineers, 1916; 1924).—On Lazaretto Point, opposite Fort McHenry, near the southwest corner of the Fidelity warehouse, 1.07 meters (3.5 feet) west of the southwest corner. The station is marked by a concrete monument centered by a standard U. S. E. bronze marker.

Target (U. S. E.) (Baltimore City, U. S. Engineers, 1916; 1924).—Inside the sea wall at Fort McHenry. The station is marked by a concrete monument centered by a wire nail. The most southerly angle in the sea wall is 15.353 meters (50.37 feet) from the station in azimuth 46° 40′, and the next angle east is 7.62 meters (25.0 feet) from the station.

Baughs (U. S. E.) (Baltimore City, U. S. Engineers, 1916; 1924).—Northeast of Fort McHenry Channel, near the south end of Clinton Street, in a solid

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fill, 1.66 meters (5.43 feet) east of the corner of same, 3.79 meters (12.45 feet) northwest from an angle in the pier south of the end of the west railroad track. The station is marked by a concrete monument centered by a standard U. S. E. bronze marker.

Ferry Bar (U. S. E.) (Baltimore City, U. S. Engineers, 1916; 1924).—North of the Patapsco River, on the easterly curved curb of Light Street, 0.954 meter (3.13 feet) northwest from a water plug, and 10.36 meters (34.0 feet) north from the line of the south face of the north curb of a street leading to the boat club. The station is marked by a U. S. E. bronze marker set in the concrete curb.

Lester 2 (U. S. E.) (Baltimore City, U. S. Engineers, 1916; 1924).—On the northwest side of Patapsco River, north of Hanover Street Bridge, at Kleins Park. The station is marked by a cross cut on outcropping quartz rock, 2½ feet by 2½ feet. It is 22.2 meters (73 feet) southeast of the line of the northwesterly face of a wharf, and 16.2 meters (53 feet) northwest of the center line of two rows of old wharf piles.

Channel (U. S. E.) (Baltimore City, U. S. Engineers, 1915).—About 150 feet from the northeast corner of Ariel Boat Club, in Broening Park, on the center line of Ferry Bar channel extended, and about 2 feet in front of an 8-inch poplar tree. The station is marked by a concrete monument centered by a standard U. S. E. bronze marker. The monument projects 6 inches above surface of the ground.

Western Maryland Elevator Pier (U. S. E.) (Baltimore City, U. S. Engineers, 1916; 1924).—On the north side of Patapsco River, on the southeasterly concrete foundation pier for the conveyor. The station is marked by a standard bronze U. S. E. marker set in the concrete foundation. It is 0.30 meter (1.0 foot) from the southeast face of the concrete and 0.314 meter (1.03 feet) from the northeast face.

B. & O. Pier 32 (U. S. E.) (Baltimore City, U. S. Engineers, 1915).—At the south side of the harbor, in the wooden platform below the steps at the northeast corner of the pier. The station is marked by a copper nail surrounded by wire nails. Distances from the station to reference points are as follows: Northwest corner of steps (bottom), 1.63 meters (5.36 feet); northeast corner of steps (bottom), 0.42 meter (1.37 feet); southwest corner of steps (top), 2.06 meters (6.75 feet). This station reported lost.

Standard (U. S. E.) (Baltimore City, U. S. Engineers, 1915).—At the north side of the harbor, near the northwest corner of the retail wharf of the Standard Oil Co., 1.234 meters (4.05 feet) from a drift bolt in the coping at the corner of the wharf, 0.774 meter (2.54 feet) east from another drift bolt in the west coping, and 2.316 meters (7.6 feet) northeast of another drift bolt in the coping. The station is marked by a copper nail surrounded by wire nails. This station reported lost in 1924.

Young (U. S. E.) (Baltimore City, U. S. Engineers, 1915).—At the north side of the harbor, near the southwest corner of the timber wharf of the J. S. Young Licorice Co., at the end of railroad tracks, 2.880 meters (9.45 feet) northeast of an angle in the face of the pier, 5.42 meters (17.8 feet) easterly from the westerly corner of the pier. The station is marked by a copper nail surrounded by wire nails. This station reported lost in 1924.

B. & O. Pier 9 (U. S. E.) (Baltimore City, U. S. Engineers, 1915).—On the south side of the harbor, in the timber wharf of Pier 9, southeast of an iron snubbing post which is near the northwest corner of the wharf, 2.53 meters (8.3 feet) from the northeast corner of the base of the snubbing post, 2.42 meters (7.93 feet) from the southeast corner of the same, 13.58 meters (44.55 feet) from the northwest corner of the building, and 14.91 meters (49 feet) from the northerly side of the building at the top of some steps. The station is marked by a copper nail surrounded by wire nails. This station reported lost.

Chesapeake (U. S. E.) (Baltimore City, U. S. Engineers, 1915).—At the south side of the harbor, on a timber wharf, behind the bumper of the easterly railroad track, 1.52 meters (5.0 feet) from the northeast corner of the bumper, the same distance from the northwest corner, and 2.219 meters (7.28 feet) from the northeast corner of the bumper of the west track. The station is marked by a copper nail surrounded by wire nails. This station reported lost in 1924.

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Consol (U. S. E.) (Baltimore City, U. S. Engineers, 1916; 1924).—At the south side of the harbor, on the lower deck timber wharf near the northwest corner of the pier of the Consolidation Coal Co. The station is marked by a copper nail surrounded by wire nails. It is 0.872 meter (2.86 feet) south of the outside edge of the coping, 1.31 meters (4.3 feet) east of the outside of the coping, and 1.622 meters (5.32 feet) from the northwest corner of a post supporting the upper deck.

Cahill (U. S. E.) (Baltimore City, U. S. Engineers, 1915).—South of the harbor, northeast of the machine shop of W. S. Canill, in solid fill. The station is marked by a concrete monument centered by a standard U. S. E. bronze marker. Distances from the station to reference marks are as follows: Northwest corner of the northerly projection of the machine shop, 15.10 meters (49.56 feet); northeast corner of same, 11.16 meters (36.62 feet); east from an 8-inch iron casing 6 feet high, 1.34 meters (4.38 feet); northwest from a similar iron casing, 4.06 meters (13.31 feet); and 3.52 meters (11.54 feet) from the coping. Station reported lost.

Federal (U. S. E.) (Baltimore City, U. S. Engineers, 1915; 1924).—At Federal Hill Park, nearly north of the Armistead Monument. The station is marked by a concrete monument centered by a wire nail. Distances from the station to reference points are as follows: Northwest corner of the base of Armistead Monument, 7.742 meters (25.40 feet); northeast corner of the same, 7.852 meters (25.76 feet); arc-light lamp-post, east of the station, 7.89 meters (25.9 feet).

Pier 6 (U. S. E.) (Baltimore City, U. S. Engineers, 1915; 1924).—On pier at the north side of Baltimore Harbor, 1.460 meters (4.79 feet) from a mooring bit at the guard rail to the southwest, and 1.783 meters (5.85 feet) easterly from another mooring bit near the point of curvature of the guard rail. The station is marked by a concrete monument centered by a copper plug.

Pier 3 (U. S. E.) (Baltimore City, U. S. Engineers, 1915).—Near the head of Baltimore Harbor, on the stone coping, near the southeast corner of the Merchants & Miners freight shed, 1.579 meters (5.18 feet) west of an outer angle of the coping, 0.768 meter (2.52 feet) northwest of another outer angle, and 0.902 meter (2.96 feet) from the southerly side of the freight shed. The station is marked by a cross cut in the stone.

York (U. S. E.) (Baltimore City, U. S. Engineers, 1915; 1924).—At the south side of the upper end of Baltimore Harbor, 0.521 meter (1.71 feet) from the northeast corner of the foundation of the York Street station of the Western Maryland Railway Co., 0.378 meter (1.24 feet) from the easterly edge of concrete. The station is marked by a standard U. S. E. bronze marker set in the concrete pavement.

Randall (Baltimore City, O. H. Tittmann, 1886; 1897).—East of head of Middle Branch of Patapsco River, at southeast side of intersection of Randall and Leadenhall Streets, 1.01 feet inside outer edge of curb, 4.32 feet southeast from near corner of drain, 9.79 feet west of northwest corner of stone wall surrounding gasometer, 53.10 feet east from northeast corner of gas house, and 87.00 feet northeast from southeast corner of gas house. Marked by a marble stone, 4 inches square and 18 inches long, with letter "H" and drill hole cut in top.

Harmon (Baltimore City, O. H. Tittmann, 1886).—Near head of Middle Branch of Patapsco River, near south end and on east side of Harmon Bridge across Gwynns Falls. Marked by a marble post, 6 inches square and 24 inches long, with letter "H" and drill hole in top. A similar stone called station *Gwynn* was set on the west side of the south end of the bridge. The distance between the two stones is 50.7 feet.

Ranstead (Baltimore City, O. H. Tittmann, 1886).—On west side of upper end of Middle Branch of Patapsco River, at what was in 1876 the south corner of Ransteads Dock. In 1886 the dock had been extended to the south and east. Marked by a marble stone, 4 inches square and 18 inches long, with letter "H" and drill hole in top. It is 4.66 feet from the inside of the coping to the southeast and 4.36 feet from the coping on the southwest. Reported lost in 1924.

Cromwell (Baltimore City, O. H. Tittmann, 1886; 1897).—On east side of Middle Branch of Patapsco River, near southwest corner of intersection of Cromwell and Hanover Streets, 1.88 feet west of outer line of west curb of Hanover Street, and 10.0 feet south of outer line of south curb of Crom-

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well Street. Marked by a marble post 6 inches square and 24 inches long, with letter "H" and drill hole in top.

Mitchell (Baltimore City, O. H. Tittmann, 1886).—West of the upper end of Middle Branch of Patapsco River, in Mitchell Bros.' lumber yard, at the end of Warner Street and west of Haines Street. Station is in front of building east of the office, being 5.97 feet from east corner of building and 11.44 feet from its northwest corner. Marked by a marble post 6 inches square and 24 inches long, with letter "H" and drill hole in top.

Kelsoe (Baltimore City, O. H. Tittmann, 1886).—Between the Patapsco River and Middle Branch, on east side of Light Street, 3.36 feet inside outer line of curb and 66.00 feet south of south curb of Kelsoe Street. Marked by a marble stone 4 inches square and 18 inches long, with letter "H" and drill hole in top.

Corner (Baltimore City, O. H. Tittmann, 1886).—On north side of Baltimore Harbor, on the southwest corner of the coal wharf south of Boston Street, near the foot of Hair Street; it is 1.3 feet from flagpole in corner of wharf, 1.12 feet west of east side of wharf, and 1.67 feet north of its south side. Marked by a tack.

Boston (Baltimore City, O. H. Tittmann, 1886).—In Canton, on Boston Street, one square west of Clinton Street, on north side of street, 16.63 feet west of nearest part of lamp-post, 20.37 feet east of a notch cut in outer line of curbstone, and 0.6 foot inside of outer line of curb. Marked by a stone, 4 inches square and 18 inches long, with drill hole in top.

Cigar (Baltimore City, O. H. Tittmann, 1886).—In Canton, on Clinton Street, near First Avenue, 52.23 feet to outer line of Clinton Street curb through groove cut in stone facing; 10.0 feet from right-hand corner of Van der Mast's cigar manufactory; and 24.27 feet from notch cut in bottom of doorway in brick wall to left of cigar manufactory. Marked by a stone post, 4 inches square and 12 inches long, with top flush with pavement. A hole in top marks the station.

B (Baltimore City, O. H. Tittmann, 1886).—In Canton, in the sidewalk on north side of Boston Street and west of Canton Street; it is 6.02 feet from outside of curb on Boston Street; 19.05 feet from outside of curb on Canton Street; 20.65 feet from south end of Canton Street curb; 16.50 feet from center of fire plug on Canton Street, and 10.60 feet from left-hand inside angle of O'Brien's house. Marked by a marble stone, 4 inches square and 18 inches long, with letter "H" and hole in top. Reported lost.

Phoenix (Baltimore City, O. H. Tittmann, 1886; 1897).—North side of Patapsco River, west of Fort McHenry, nearly midway between the up-and-down tracks of the Baltimore & Ohio Railroad on Clagett Street, abreast of Phoenix Wharf. Marked by a stone 6 inches square and 30 inches long.

Ninth Avenue stone (Baltimore Harbor, O. H. Tittmann, 1886).—On east side of Baltimore Harbor, north of Lazaretto Point, in the sidewalk on the east side of Clinton Street, 1.78 feet inside the curb, and 51.61 feet north of corner at northeast corner of intersection with Ninth Avenue. It is 6.8 feet from near face of building, 29.02 feet from corner to north, 18.53 feet and 21.28 feet from building corners to south. Marked by a stone, 4 inches square and 18 inches long, with drill hole and letter "H" in top.

Canton elevator stone (Baltimore City, O. H. Tittmann, 1886).—In Canton, near the most northerly track of the Philadelphia, Baltimore & Washington Railroad, opposite the Canton elevator. It is 10.4 feet from lamp-post on Clinton Street and 3.9 feet from end of buffer. Marked by a stone, 4 inches square and 12 inches long, with top even with surface of ground. A hole in top of stone marks station.

Chesapeake (Baltimore City, O. H. Tittmann, 1886).—On north side of Baltimore Harbor, on north side of Boston Street, just west of Chesapeake Street. Station is in front of what was Mrs. Reuter's barroom, being 20.97 feet from right-hand corner of building, 42.3 feet from left-hand corner, and 19.29 feet from a small hole drilled in the bottom brick to the right of a drain near the nearest corner; it is 2.52 feet inside outer curb line. Marked by a stone post, 4 inches square and 18 inches long, with top flush with surface of the pavement.

Nicholson (Baltimore City, O. H. Tittmann, 1886.—On Locust Point, in the sidewalk at the corner of Nicholson and Towson Streets, 10.58 feet from corner of grocery, 16.00 feet from far corner of doorway to left, 19.97 feet from far corner of doorway to right, 6.72 feet from curb corner to left, and 5.90 feet from curb corner to right. Mark not recorded; is probably a stone in sidewalk.

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Cross (Baltimore City, O. H. Tittmann, 1886).—On south side of Cross Street, in the sidewalk, 5.4 feet south of outside edge of south curb, and 0.9 foot east of the east curb of Covington Street produced. Marked by a marble stone, 4 inches square and 18 inches long, with drill hole and letter "H" in top.

McMurray (Baltimore City, O. H. Tittmann, 1886).—On western side of Baltimore Harbor, in the south sidewalk of Cross Street, 5.63 feet from curb, and 23.1 feet from east corner of McMurray's packing house. East corner of projection of packing house is 6.57 feet distant, west corner of same projection is 4.7 feet distant, and east corner of projection still farther west is 8.8 feet distant. Marked by a marble stone, 4 inches square and 18 inches long, with drill hole and letter "H" in top.

Alley (Baltimore City, O. H. Tittmann, 1886).—On west side of Baltimore Harbor, about 40 paces south of Montgomery Street, 5.19 feet east of outside of curb line on east side of Covington Street, 0.6 foot south of outside of south curb line of alley, 8.17 feet from corner of brick house (Bosley's) on south side of alley and 11.92 feet from corner brick house on north side of alley. Marked by marble stone, 4 inches square and 18 inches long, with drill hole and letter "H" in top.

Bixler (Baltimore City, O. H. Tittmann, 1886).—On west side of Baltimore Harbor, in the sidewalk at the northeast corner of the intersection of Hughes and Covington Streets, 3.70 feet from outside of north curb of Hughes Street, 4.88 feet east of outside of east curb of Covington Street, 12.58 feet from corner Bixler & Co.'s house, 40.12 feet from northwest corner same house, and 35.21 feet from brick corner on near side of doorway in same house. Marked by a marble stone, 4 inches square and 18 inches long, with drill hole and letter "H" in top.

Foot (Baltimore City, O. H. Tittmann, 1886).—On west side of Baltimore Harbor, 3.00 feet north of outside of curb line on north side of Great Hughes Street, 30.28 feet westerly from corner of brick house, and 104.55 feet from bulkhead line. Marked by marble stone, 4 inches square and 18 inches long, with drill hole and letter "H" in top.

Henry (Baltimore City, O. H. Tittmann, 1886).—In sidewalk in northwest corner of intersection of Hughes and Henry Streets, 4.02 feet north of outside north curb line of Hughes Street and 3.51 feet west of outside west curb line of Henry Street. Marked by marble stone, 4 inches square and 18 inches long, with drill hole and letter "H" in top.

Johnson (Baltimore City, O. H. Tittmann, 1886).—On south side of head of Baltimore Harbor, in sidewalk at northeast corner of Johnson and York Streets, 12.7 feet south of dock line, just west of Reeder's Wharf, and 3.03 feet east of east side of drain along Johnson Street. Marked by marble stone, 4 inches square and 18 inches long, with drill hole and letter "H" in top.

William (Baltimore City, O. H. Tittmann, 1886).—Near head of Baltimore Harbor, in sidewalk at northwest corner of intersection of William and York Streets, 2.35 feet west of outside of west curb of William Street, 8.84 feet from corner of brick house (J. McDonough's), and 43.71 feet north of corner of brick house (Kerwan & Tyler's) at southwest side of street intersection. Marked by a marble stone, 4 inches square and 18 inches long, with drill hole and letter "H" in top.

Lee (Baltimore City, O. H. Tittmann, 1886).—On the west side of the Basin, Baltimore Harbor, in northwest corner of intersection of Lee and Light Streets, 4.85 feet west of outside of west curb of Light Street, 14.61 feet southeast of near corner of brick doorway, 7.11 feet from near corner of house, and 0.08 foot south of south building line prolonged. Marked by a marble stone, 4 inches square and 18 inches long, with drill hole and letter "H" in top.

Pratt (Baltimore City, O. H. Tittmann, 1886).—At northwest corner of the Basin, Baltimore Harbor, just west of Light Street, and 4.2 feet north of outside of curb on north side of Pratt Street, 19.5 feet southwest from corner of house (Anderson and Ireland), and 14.33 feet southeast of brick corner (doorway or window). Marked by a marble stone, 4 inches square and 18 inches long, with drill hole and letter "H" in top.

Cable (Baltimore City, O. H. Tittmann, 1886).—At northwest corner of intersection of Cable and Patterson Streets, 5.49 feet from corner brick house in northwest corner of street intersection, 35.67 feet from corner brick house (White & Co.'s) in southwest corner of street intersection, and 29.83 feet from

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corner brick house in northeast corner of street intersection. Marked by a stone.

Warner (Baltimore City, O. H. Tittmann, 1886).—East of the head of Middle Branch of Patapsco River, in the southeast corner of Warner and Wooster Streets. Marked by a stone, 6 inches square and 24 inches long, with drill hole and letter "H" in top.

Plum (Baltimore City, O. H. Tittmann, 1886).—On north side of Stockholm Street, between Sharp and Howard Streets, 5.24 feet north of outside of corner of coping on Stockholm Street, 3.25 feet from outside corner of coping on Plum Alley, 2.83 feet south of outside corner of coping on Plum Alley, and 32.08 feet from corner of house. Marked by a marble stone, with drill hole and letter "H" in top.

Gwynn (Baltimore City, O. H. Tittmann, 1886).—Close to and west of south end of the Harmons Bridge over Gwynns Falls, and 50.7 feet west of station *Harmon* (consult index). Marked by marble stone, 6 inches square and 24 inches long, with drill hole and letter "H" in top.

Leadenhall (Baltimore City, O. H. Tittmann, 1886).—East of head of Middle Branch of Patapsco River, in southeast corner of intersection of Leadenhall Street and Fort Avenue, 2.47 feet from west end of curb corner (outside), and 0.64 foot inside outside edge of curb on Fort Avenue. Marked by a marble stone, 4 inches square and 18 inches long, with drill hole and letter "H" in top.

Webster (Baltimore City, O. H. Tittmann, 1886).—Southwest of Baltimore Harbor, in sidewalk near northeast corner of Clement and Webster Streets, 5.37 feet northeast from east end of curb corner (outside), 2.86 feet from near end of curbstone, and 6.5 feet from east end of curbstone. Marked by a marble stone, 4 inches square and 18 inches long, with drill hole and letter "H" in top.

Dock (Baltimore City, O. H. Tittmann, 1886; 1897).—Southwest of Baltimore Harbor, near Woodall's shipyard, 4 feet west of fence which is east of charcoal furnaces, and 21.6 feet northeast of nearest foundation stone of railway trestle. Marked by a stone.

Hamilton (Baltimore City, O. H. Tittmann, 1886).—On Locust Point, south side of Baltimore Harbor, on southwest side of Nicholson Street, 1.61 feet inside outer line of bricks, 25.7 feet from corner brick house (Kenny's) on far side of an alley, 10.66 feet north of far brick corner of doorway at pavement, 9.63 feet northeast from near brick corner of doorway at pavement, and 21.47 feet east of far brick corner of doorway at pavement. Marking of station not known.

Boyce (Baltimore City, O. H. Tittmann, 1886).—On south side Baltimore Harbor, on Locust Point, in the western prolongation of Nicholson Street, between the railroad tracks leading to Boyce's coal wharves. Station is 96.72 feet east by south from corner of top layer of stone below platform, and 64.45 feet southeast and 73.55 feet southwest from other similar points. Marked by a marble stone 4 inches square and 18 inches long with drill hole and letter "H" in top.

Towson (Baltimore City, O. H. Tittmann, 1886; 1897).—North of Patapsco River, midway between the up and down tracks of the Baltimore & Ohio Railroad on Clagett Street between Towson and Andre Streets, projected. It is 15.91 feet southeast of corner of fence at alley, 46.50 feet southwest of corner of a brick building, and north of a point of deflection in the bulkhead line. Marked by a marble stone 6 inches square and 30 inches long.

Harrison (Baltimore City, O. H. Tittmann, 1886).—North of Baltimore Harbor, on northwest side of and near bridge over Harrisons Creek in the sidewalk on north side of Boston Street, and between Dillon and O'Donnell Streets. It is 5.95 feet east of outer line of stone coping. Marked by a stone.

Anchor (Baltimore City, O. H. Tittmann, 1886).—On north side of Baltimore Harbor, on northeast side of Boston Street, opposite its intersection with Alice Anna Street, and 8.08 feet inside stone coping. It is in front of Kanne's foundry, 6.06 feet from corner of iron pillar at left-hand corner of building, 5.13 feet from iron pillar on right-hand side of door, and 15.14 feet from corner of iron pillar at left-hand corner of building. Marking not recorded.

Wolf (Baltimore City, O. H. Tittmann, 1886).—On north side of Baltimore Harbor, in the sidewalk at southeast corner of the junction of South Wolfe and Alice Anna Streets, 13.25 feet from corner of Westerman's grocery, 54.36 feet from corner of brick house (Kunnecke's), and 59.62 feet from corner of

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brick house on northeast corner of street intersection. Marking not recorded. Reported lost in 1924.

Mallory (Baltimore City, O. H. Tittmann, 1886).—In the sidewalk at the southeast corner of the interesection of Thames and South Wolfe Streets, 11.03 feet from the corner of brick building (Mayer & Co.), 50.25 feet east of corner of brick house (Donohue & Wagner), and 65.70 feet south of corner of another brick building (Mallory & Co.). Marked by a marble stone 4 inches square and 18 inches long.

Fell (Baltimore City, O. H. Tittmann, 1886).—In the sidewalk at the east side of the intersection of Fell and Thames Streets, 29.07 feet from right-hand corner of house, 10.52 feet northwest of a point on north building line produced and 21.21 feet from corner of building, and 11.98 feet west of a point on the Fell Street building line produced and 19.7 feet from corner of building. Marked by a marble stone 4 inches square and 18 inches long.

Broadway (Baltimore City, O. H. Tittmann, 1886).—On the north side of Thames Street, 22.77 feet west of corner of building northwest of intersection of Broadway and Thames Street, 11.50 feet from near face of building and 1.78 feet inside curb line (outside), and 25.35 feet east of near side of brick alley. Mark not recorded.

Point (Baltimore City, O. H. Tittmann, 1886).—On southwest side of Fell Street, 52.75 feet northwest of corner of brick house close to the dock line, 5.90 feet from nearest point on brick house, 64.27 feet northeast from corner of brick house across street, and 64.20 feet east by north of another brick house corner across street. The two brick houses across street are on opposite sides of an alley which leads to the wharves. The houses corner on Fell Street. Marked by a marble stone 4 inches square and 18 inches long set in the sidewalk.

Philpot (Baltimore City, O. H. Tittmann, 1886).—North of Baltimore Harbor, in the sidewalk at the northwest corner of the intersection of Thames and Philpot Streets. Station is 3.15 feet from the outer line of the Philpot Street curb, 13.07 feet from bottom of fourth brick above pavement at corner of Burns' grocery, 33.38 feet from southwest corner of grocery at pavement, 70.72 feet from outside corner of foundation stone at north side of wagon entrance (E. Levering & Co.), and 56.35 feet to corner of brick house at pavement in southeast angle of street intersection. Marked by a marble stone 4 inches square and 18 inches long with drill hole and inscription "H 2" in top.

Taylor (Baltimore City, O. H. Tittmann, 1886).—On north side of Baltimore Harbor, in northeast corner of intersection of Point and Philpot Streets, 3.2 feet east of outside of curb of the former street and 3.5 feet north of the outside of curb of the latter street, 11.83 feet southwest of fence corner, and 50.91 feet north of northwest corner of the Froelichs Machine Works. Marked by a marble stone 4 inches square and 18 inches long with drill hole and letter "H" in top.

Aller (Baltimore City, O. H. Tittmann, 1886; 1897).—On eastern side of Middle Branch of Patapsco River, in southwest corner of interesection of Jephson and Leadenhall Streets, and referenced to corners of brick buildings of the Wm. King & Sons Glass Works on the west side of Leadenhall Street as follows: Southeast corner of building, 73.00 feet south-southwest; northeast corner of same building, 16.35 feet southwest; southeast corner of building, 39.85 feet north-northwest, and northeast corner of preceding building, 99.00 feet north by west. Marked by a marble stone 6 inches square and 24 inches long, with drill hole and letter "H" in top.

Fort Carroll Lighthouse (Baltimore County, E. W. Eickelberg, 1915).—The lantern of the lighthouse on Fort Carroll in the Patapsco River. A concrete monument with copper plug for center was set in grass plot in front of "Battery Heart." It is 63.381 meters (207.94 feet) from the station, and at this reference mark the station is 66° 32′ 55″ to the right of the line to station "Armistead."

Fort McHenry Lighthouse (Baltimore City, E. W. Eickelberg, 1915).—A gaslight on a tall steel structure on the sea wall at Fort McHenry.

Reinle Salmon Co. tank (Baltimore City, E. W. Eickelberg, 1915).—At the head of Middle Branch, Patapsco River. Station is center of black water tank on top of Reinle Salmon Co.'s building.

Electric plant chimney (Baltimore City, E. W. Eickelberg, 1915).—At the western extremity of the Western Maryland Railroad bridge over Middle

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Branch, Patapsco River. Station is center of largest brick stack at the electric plant.

Fort McHenry flagstaff (Baltimore City, J. Ferguson, 1842; 1897).—In entrance to most easterly salient of Fort McHenry, 104.93 feet from outside of stone corner of salient, in prolongation of inner wall from south and 15.60 feet from point of interesction of walls produced; 13.11 feet from similar corner to north; 35.38 feet from corner of house to southwest; and 50.10 feet from face of wall to northwest.

Fort, most eastern salient of Fort McHenry (Baltimore City, O. H. Tittmann, 1886; 1897).—In the most eastern salient of Fort McHenry, 23.5 feet from outside of stone corner of salient, and about 8 feet from intersection of the prolongation of the inner stone faces. Marked by hole drilled in top of a marble post 4 inches square and about 1 foot long with about 4 inches projecting above turf. It is 81.43 feet from the center of the Fort McHenry flagstaff.

Mount Hope, cupola (Baltimore County, E. W. Eickelberg, 1915).—About 5 miles northwest of the heart of Baltimore City, in West Arlington. Station is finial on top of main building at Mount Hope.

Pimlico flagstaff (Baltimore City, E. W. Eickelberg, 1915).—About 5 miles northwest of the heart of Baltimore City, at Arlington. Station is the flagstaff on the tallest of three cupolas on the grand stand at Pimlico racing rack.

P. E. Church spire (Baltimore City, E. W. Eickelberg, 1915).—About 4½ miles north of the heart of Baltimore City, in Roland Park. Station is center of cross on Protestant Episcopal Church.

Sanford Brooks tank (Baltimore City, E. W. Eickelberg, 1915).—On the north shore of Patapsco River, about ½ mile east of Lazaretto Point, at the Canton Co.'s pier. Station is center of tank on Sanford Brooks warehouse.

Maryland Casualty tower (Baltimore City, E. W. Eickelberg, 1915).—In the heart of Baltimore City, on the building of the Maryland Casualty Co. The tower is very prominent and is illuminated at night. Station is center of cylindrical pole on which time ball rises.

Disposal plant chimney (Anne Arundel County, E. W. Eickelberg, 1915).—On Spit Neck, about 1 mile west from Bodkin Point at the south side of entrance to Patapsco River. Station is center of prominent tall brick chimney.

Livingstone stack (Baltimore City, E. W. Eickelberg, 1915; 1924).—On the east side of Stonehouse Cove (Customhouse Cove), Curtis Bay. Station is tall brick chimney of the Livingston plant. United States Industrial Chemical plant.

Baltimore & Ohio elevator, cupola (Baltimore City, E. W. Eickelberg, 1915).—On the southwest side of Baltimore Northwest Harbor, on top of Baltimore & Ohio Railroad elevator "B." Station is center of small cupola containing a bell.

Brooklyn Church spire (Baltimore City, E. W. Eickelberg, 1915).—South of the Patapsco River in the village of Brooklyn. Station is cross on church spire, open tower.

Yokels Park flagstaff (Baltimore City, E. W. Eickelberg, 1915).—The flagstaff on the top of a large yellow building in Yokels Park, at the southern extremity of the Light Street Bridge. Station lost, building reported destroyed in 1924.

Baltimore Yacht Club flagstaff (Baltimore City, E. W. Eickelberg, 1915).—On the north shore of Patapsco River, just west of Fort McHenry. Station is a short, heavy flagstaff on the wharf in front of the Baltimore Yacht Clubhouse.

Gas company stack (Baltimore City, E. W. Eickelberg, 1915).—On the north side of the Patapsco River, just north of the Western Maryland Railroad piers and northeast of that company's elevator. Station is the higher of two brick chimneys at the gas company's plant.

Emerson tower (Baltimore City, E. W. Eickelberg, 1915).—In Baltimore City, on the Emerson Tower. Station is top of tall bromo-seltzer bottle. It is illuminated at night.

Prudential Oil Co.'s stack (Baltimore City, E. W. Eickelberg, 1915; 1924).—Back of Wagners Point, between Fairfield and East Brooklyn. Station is center of tall brick stack of the Prudential Oil Co. In good condition in 1924; another stack which shows as a lighter color has been built a short distance to the eastward of the older stack.

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Fort Howard taller water tank (Baltimore County, C. C. Yates, 1909).—On the northern side of the entrance to Patapsco River, about ½ mile north-northwest of North Point. Station is center point of pipe attached to bottom of the taller of two steel water tanks on steel towers at Fort Howard.

Tick Neck (Anne Arundel County, H. G. Ogden, 1897).—About 2 miles southwest of Patapsco River, on Tick Neck, about midway between Stony Creek and Rock Creek, and about 100 feet above tide water. A cluster of three stumps are just south of the station, nearly on line running a little east of north. The most southern stump and the next nearest are 0.98 meter (3.2 feet) apart, center to center, while the other two are 0.65 meter (2.1 feet) apart, center to center. A line tangent to the west sides of the two southern stumps produced through the center of the northern stump a distance of 0.65 meter (2.1 feet) and then offset to the left 0.65 meter (2.1 feet) will determine the station, the marking of which is not known. The station is on the property of Gus Jenkins. Southwest of the station, at the base of the hill, and about 70 meters distant, is the stump of a tree about 20 feet high and 3 feet in diameter.

Johnnie (Anne Arundel County, H. G. Ogden, 1897).—On the road from the head of Rock Creek (steamboat landing) to McCubbins store, and about ¼ mile from the creek. It is 2.1 meters (6.9 feet) from the east wall of John Hall's cabin, offset at a point 1.1 meters (3.6 feet) back from the front (south) wall. Marking not known.

Lester (Baltimore City, O. H. Tittmann, 1886; 1897).—On the west shore of Patapsco River, 48 feet north of Lester & Warner Wharf, opposite the draw of Long Bridge. Station is at high-water line, and about 18 feet from foot of bluff, and is at the north edge of a large quartz bowlder. Marked by a marble stone, 6 inches square and 24 inches long. Probably lost.

Horner (Baltimore City, O. H. Tittmann, 1886).—On north side of Patapsco River, northeast of eastern end of Mole Street prolonged to water's edge, and south of Horners Factory, and about 1,000 feet northeast of Winans Wharf. Marked by a marble post, 6 inches square and 24 inches long.

Spring Gardens (Baltimore City, J. W. Donn, 1876; 1886).—On a small bluff, northwest from Ransteads Wharf, west of Warner Street, and between Wooster and Bayard Streets. In 1886 a stub with tack in top was recovered and replaced with a marble stone, 4 inches square and 18 inches long, hole and letter H in top.

Federal (Baltimore City, O. H. Tittmann, 1886).—On Federal Hill, near the Armistead Monument, being 10.76 feet from right-hand corner of monument, 9.98 feet from left-hand corner of monument, 20.43 feet from electric light post, and 11.27 feet from nearest edge of drain. Marked by a marble post with top flush with pavement and hole drilled in center.

Gas (Baltimore City, O. H. Tittmann, 1886).—On the embankment surrounding the gas holder of the Consolidated Gas Co. in Canton, at the corner of Second Avenue and Clinton Street, and on opposite side from street intersection. The station is 18.98 feet from outer corner of base of iron pillar to right, 17.39 feet from outer corner of base of iron pillar to left, 6 feet from cross cut in one of the capstones of the foundation. This cross is 17.92 feet from first-mentioned corner and 16.46 feet from second corner. Station marked by a marble stone 4 inches square and 18 inches long, its top flush with the ground, and a hole drilled in its center.

Foley (Baltimore City, O. H. Tittmann, 1886).—On Foley's Wharf, about 42 feet from west end of wharf. Three bolts along north side of wharf were marked with crosses cut in their heads; they are at the following distances from the station: West bolt, 21.22 feet; middle bolt, 16.40 feet; east bolt, 17.28 feet. Station marked by a marble stone, 4 inches square and 18 inches long, with top flush with surface of ground. The stone has a drill hole to mark the center, and the letter H and figure 6 cut into its top.

Clinton (Baltimore City, O. H. Tittmann, 1886).—In Canton, in the sidewalk near the southeast corner of Eleventh Avenue and Clinton Streets. It is 87.28 feet from the southeast corner of the brick house standing at the northwest corner of the street, and 65.15 feet from the northeast corner of the brick house standing on the southwest corner of the street. Marked by a marble stone, 4 inches square and 18 inches long, with top flush with the pavement. A drill hole marks the center, and the letter H and figure 5 are cut in the top.

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Fenhagen (Baltimore City, O. H. Tittmann, 1886).—On north side of Baltimore Harbor, just inside bulkhead line, in front of engine house, about 110 yards east of Washington Street and 50 yards south of Alice Ann Street. Marked by square marble post set by harbor board.

Canton Wharf (Baltimore City, O. H. Tittmann, 1886).—On north side of Baltimore Harbor, near the southwest corner of the Canton Co.'s wharf, about 200 yards southwest of the Chipmans Chair Factory, which stands on the south side of Boston Street, between Luzerne and Patapsco Streets. Station is 23.40 feet from south side of pier at point 20 feet east of corner, and 22.35 feet from west edge of pier at point 29 feet north of corner. Marked by a marble stone, 4 inches square, and 18 inches long.

Thames (Baltimore City, O. H. Tittmann, 1886).—At the southwest corner of Thames and Block Streets, and opposite end of South Caroline Street. The station is marked by a marble stone, 4 inches square and 18 inches long, set flush with the bricks in the sidewalk. It is 16.08 feet from right-hand corner (Block Street) of near brick building, 31.15 feet from left-hand corner (Thames Street) of same building, 53.19 feet from corner of brick building at surface of pavement in intersection of Block and South Caroline Streets, and 55.66 feet from corner of brick building at surface of pavement at east side of entrance to alley southeast of station.

Walker (Baltimore City, O. H. Tittmann, 1886).—On Locust Point, on Clagett Street, midway between the up and down tracks of the Baltimore & Ohio Railroad, between Allen and Ludlow Streets. The station is marked by a marble stone 6 inches square and 30 inches long. It is 56.57 feet from right-hand corner of Walker Horse Shoe Co.'s building; 55.98 feet from left-hand corner of building, and 47.19 feet from nearest point of building.

Pillar (Baltimore City, O. H. Tittmann, 1886).—In the brick wall forming the western boundary of Fort McHenry, on that part of the wall which descends in steps to the water. Station is not marked, but is the center of the copestone of the third pillar of the brick wall counting from the water, and the tenth pillar counting from the Fort Avenue level. The copestone is about 30 inches square.

McComas (Baltimore City, O. H. Tittmann, 1886; 1897).—Near the extreme end of McComas Street prolonged, and north of guano factory. Station is in line with some granite posts set by the city survey, being 2.65 feet east of one, and 93.70 feet and 100.35 feet west of two others. Marked by a marble stone. Reported lost in 1924.

Clifton cupola vane (Baltimore City, C. H. Boyd, 1863; 1876).—About 3 miles northeast of the center of Baltimore City on the Harford Road, on the mansion house of Johns Hopkins, known as the Clifton Park house, now the property of Johns Hopkins University. The station is the ornamental vane and lightning rod on the center of the cupola on the house.

Druid (Baltimore City, C. H. Boyd, 1863).—Station is the center of the small spire on the cupola of the Druid Hill Park house. This spire was cut off about 4 feet above the roof of the cupola and the stand thus left occupied with theodolite. A copper nail in top of stand marks center. The upper part of spire was replaced and fastened with iron straps set in its sides and secured with screws.

Mill cupola, Chipman's chair factory (Baltimore City, O. H. Tittmann, 1886; 1897).—The finial on the cupola on the Chipman Chair Factory, on the south side of Boston Street, between Luzerne and Patapsco Streets.

Gail & Ax, tobacco manufactory, vane (Baltimore City, J. W. Donn, 1876; 1886).—On the tobacco manufactory of Gail & Ax, on Barre Street, between Light and Charles Streets. Station is vane on center of top of cupola.

Guano factory cupola, a paper mill in 1886 (Baltimore City, J. W. Donn, 1876; 1886).—On the south side of Federal Hill, on the roof of what was in 1876 a guano factory, but in 1886 had been converted into a paper mill. Station is center of cupola on building.

Chimney 1, lightning rod of tall chimney on Smiths Wharf (Baltimore City, J. W. Donn, 1876).—The lightning rod of tall chimney on Smiths Wharf, Gay Street dock, east side.

Chimney 2, lightning rod of tall chimney of Martin's planing mill (Baltimore City, J. W. Donn, 1876).—Lightning rod of tall chimney of Martin's planing mill, on south side of City Dock, east of its entrance.

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Box cupola, flagstaff on chemical works (Baltimore City, J. W. Donn, 1876).—Flagpole of a square cupola, the largest of the chemical works near Middle Branch Patapsco River.

Knabe's piano factory, cupola vane (Baltimore City, J. W. Donn, 1876).—The cupola on Knabe's piano factory near the Middle Branch of the Patapsco River. Station is iron rod forming axis of vane.

Car wheel factory, south gable (Baltimore City, J. W. Donn, 1876).—The flagpole on the south gable of the Baltimore Car Wheel Co.'s factory, situated near the wharves of the Canton Sugar Refinery and between them and Abbott's rolling mill.

Adam's sail loft, flagstaff (Baltimore City, J. W. Donn, 1876).—Flagpole on west end of Adams Sail Loft Building, at Fells Point, on the east side of South Wolfe Street.

United States bonded warehouse, flagstaff (Baltimore City, J. W. Donn, 1876; 1886).—Flagpole on west gable of U. S. bonded warehouse, on Hendersons Wharf, Fells Point.

Green cupola, west end of Baltimore & Ohio Piers 8 and 9 (Baltimore City, J. W. Donn, 1876; 1886).—On Locust Point, on west end of Piers 8 and 9 of the B. & O. Co. Station is finial of green cupola on one of depots or offices of the company.

Central cupola flagstaff on Flack Bros.' distillery (Baltimore City, J. W. Donn, 1876).—The flagpole on the central and largest cupola of Flack Bros.' distillery in Canton, on the first north-and-south street east from Canton water front, and to the southeast of the N. C. R. W. or Canton elevator. The distillery faces west and is a large and long brick building, several stories high, with a number of small cupolas or ventilators on top.

Elevator B, belfry (Baltimore City, J. W. Donn, 1876; 1897).—Top of small bell cupalo on south gable end of largest elevator of B. & O. Co. on Locust Point.

Baltimore Johns Hopkins Hospital (Baltimore City, O. H. Tittmann, 1886).—The finial of the cupola on Johns Hopkins Hospital, in the eastern part of Baltimore, fronting Broadway to the west and Wolfe Street to the east, and lying between Monument and Jefferson Streets.

Ober & Sons' guano factory cupola (Baltimore City, O. H. Tittmann, 1886).—The finial of the cupola on Ober & Sons' guano factory east of Hull Street and north of Nicholsen Street.

Sea wall (Baltimore City, O. H. Tittmann, 1886; 1915).—At Fort McHenry, on the coping stone of the sea wall, on the northeast side of the fort, at the first angle in the wall southeast of the quartermaster's wharf. Station mark is a cross cut in the granite capstone. It is referenced to the angles of the stone as follows: To northeast corner of stone, 2.31 feet; to southeast corner, 2.85 feet, and to outside angle of stone, 2.20 feet.

Pennsy Con (U. S. E.) (Baltimore City, U. S. Engineers, 1915).—At the north side of the harbor, near the southwest corner of the pier of the Pennsylvania Railroad Co., 3.47 meters (11.4 feet) northeasterly from the inside of the 12-by-12-inch timber coping at the southwest corner, 11.628 meters (38.15 feet) from the inside of coping at the northwest corner of the pier. The station is marked by a concrete monument centered by a nail.

Atlantic (U. S. E.) (Baltimore City, U. S. Engineers, 1915; 1924).—At the north side of the harbor, in an earth-fill back of a concrete curb or retaining wall, 1.72 meters (5.65 feet) back from the southerly face of the concrete, 1.74 meters (5.72 feet) back from the westerly face, and 2.48 meters (8.13 feet) northeast from the outer corner. The station is marked by a concrete monument centered by a standard U. S. E. bronze marker. It is buried about 3 inches under ground.

Webster (U. S. E.) (Baltimore City, U. S. Engineers, 1916).—At the north side of Baltimore Harbor, 2.094 meters (6.87 feet) southwest from the westerly corner of the oyster house of Webster Butterfield Co., in the concrete pavement, 1.13 meters (3.7 feet) back from the southwest face of the concrete, and 1.19 meters (3.9 feet) back from the northwest face. The station is marked by a U. S. E. bronze marker set in the concrete pavement.

Fell (U. S. E.) (Baltimore City, U. S. Engineers, 1915; 1924).—At the north side of the harbor, near the south corner of a cannery with a concrete foundation, 1.10 meters (3.6 feet) southwest of the face of the concrete, and

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1.2 meters (4 feet) from the corner. The station is marked by a concrete monument centered by a standard U. S. E. bronze marker.

Recreation (U. S. E.) (Baltimore City, U. S. Engineers, 1916).—At the northerly side of Baltimore Harbor, 0.798 meter (2.62 feet) back from the outer face of the concrete curb at the south end of Recreation Pier, 3.910 meters (12.83 feet) westerly from the westerly of two bolts in the concrete curb, and 14.524 meters (47.65 feet) easterly from the nearer one of two other bolts in the curb. The station is marked by a standard U. S. E. bronze marker set in the asphalt pavement.

Chase (U. S. E.) (Baltimore City, U. S. Engineers, 1915; 1924).—At the northerly side of Baltimore Harbor, near the southeasterly end of a wharf, 4.56 meters (14.95 feet) southwesterly from a bolt in the coping at the easterly corner of the wharf, and 4.18 meters (13.7 feet) northeasterly from a bolt at the southerly corner of the wharf. The station is marked by a copper nail surrounded by six wire nails. The reference mark is a cross cut in a granite foundation stone, 68.827 meters (225.81 feet) from the station in azimuth 134° 44′.

Woodall (U. S. E.) (Baltimore City, U. S. Engineers, 1915; 1924).—At the south side of Baltimore Harbor, northwest of W. E. Woodall's floating dry dock, near the northerly end of a timber wharf, 2.886 meters (9.47 feet) from the inside corner of the coping at the northeast corner, 1.923 meters (6.31 feet) from the inside of the northwest corner coping. The station is marked by a copper nail. The reference mark is a concrete monument centered by a standard U. S. E. bronze marker. It is in solid fill, 2.057 meters (6.75 feet) east of the west edge of a wooden bulkhead, 5.67 meters (18.6 feet) from the northwest corner of the bulkhead, and 6.13 meters (20.1 feet) from the bulkhead at the southeast corner of the timber wharf and 83.701 meters (274.61 feet) from the station in azimuth 21° 23′.

Gill (U. S. E.) (Baltimore City, U. S. Engineers, 1915; 1924).—At the northerly side of Baltimore Harbor, at the southwest corner of Gill's lumber yard, 1.957 meters (6.42 feet) from the outer corner of a concrete guard rail. The station is marked by a concrete monument centered by a standard U. S. E. bronze marker.

Miners (U. S. E.) (Baltimore City, U. S. Engineers, 1915; 1924).—On the northerly side of Baltimore Harbor, on a solid fill, 4.03 meters (13.23 feet) southeast of the corner of an old freight shed, and 1.65 meters (5.42 feet) from the edge of fill. The station is marked by a concrete monument centered by a standard U. S. E. bronze marker.

Hughes (U. S. E.) (Baltimore City, U. S. Engineers, 1915).—At the southwest side of the upper harbor, at the north side of Hughes Street, in a planked platform outside the limit of solid fill, 1.19 meters (3.9 feet) back from the face of the coping, and 3.709 meters (12.17 feet) northeast from the easterly end of a concrete curb on Hughes Street. The station is marked by a copper nail surrounded by wire nails. The reference mark is a concrete monument centered by a standard U. S. E. bronze marker. It is 9.501 meters (31.17 feet) from the station in azimuth 73° 32′ 49″. The reference mark is 0.939 meter (3.08 feet) from the inside of the northerly end of the curved concrete curb and 2.871 meters (9.42 feet) from the easterly end of the same. This station reported lost in 1924.

Fire (U. S. E.) (Baltimore City, U. S. Engineers, 1915).—On the north side of the harbor, in a timber flooring, 1.89 meters (6.2 feet) from the southwesterly corner of the Baltimore City Fire Boat station, 23.671 meters (77.66 feet) from the southeasterly corner of same, and 3.81 meters (12.5 feet) from the southerly corner of the coping. The station is marked by a copper nail surrounded by wire nails. Station reported lost.

Consolidation (H. B.) (Baltimore City, U. S. Engineers, 1916).—South of the harbor, east of the railroad tracks leading to the Consolidated Coal Co. Pier, 13.41 meters (44.0 feet) from the east rail at the point of tangency, 19.60 meters (64.3 feet) northeast of a frog, and 10.55 meters (34.6 feet) south of the southeast corner of a tool house. The station is marked by a concrete monument centered by wire nails.

Bear (U. S. E.) (Baltimore County, U. S. Engineers, 1916; 1924).—On the west side of Bear Creek, south of the track of the Baltimore & Sparrows Point Railroad. The station is marked by a concrete monument centered by a standard U. S. E. bronze marker. Distances from the station to points of

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reference are as follows: A railroad right of way granite post just north of west, 16.51 meters (54.16 feet); a similar granite post just east of north, 17.15 meters (56.25 feet); a telephone post north of west, 5.64 meters (18.52 feet); a signpost to the northwest, 4.80 meters (15.75 feet).

Sollers Shore 2 (U. S. E.) (Baltimore County, D. B. Wainwright, 1896).—On northeast side of Patapsco River. Marked by a marble stone in the marsh.

EASTERN BAY

Kent Point (Queen Annes County, F. W. Perkins, 1898).—On eastern side of Chesapeake Bay, on southern end of Kent Island, on Kent Point, at north side of entrance to Eastern Bay, 15 feet from a 2-foot bank, and 40.52 feet S. 78° E. from a blazed pine. Station is marked by two 4-inch tile pipes placed one above the other, the top being about 7 inches below surface of ground, and a nail in a pine stub even with the surface of the ground, note 19.

Wade Point 2 (Talbot County, F. W. Perkins, 1898).—On southeastern side Eastern Bay, on Wades Point, about 1¼ miles west by south from Claiborne Wharf, 21 feet from edge of bluff 9 feet high, and 36 paces southwest from a fence. Station marked by two 4-inch tile pipes placed one above the other, the top of upper tile about 7 inches below surface of ground, and a nail in center of a 4-inch stub with top even with surface of ground, note 19.

Legg (Queen Annes County, J. W. Donn, 1899).—On the eastern shore of Kent Island, western side of Eastern Bay, 1 mile above southern end of Long Point. It is due east from Legg's residence and in an angle of the shore fence. Marked by a cross cut in a flat stone placed 1 foot below the surface of the ground. Surface mark is a nail in a cedar stub.

Dixon (Talbot County, J. W. Donn, 1899; 1909).—On the southeastern side of Eastern Bay, on Tilghmans Point, halfway between Eastern Bay and Miles River, ¾ mile southwest of northern end of point, and 1⅝ miles northeast of Claiborne Wharf. Station is center of upright staff, 3 inches square, set in center of trapdoor at apex of square roof of two-story square frame house on Tilghmans Point farm.

Bodkin (Queen Annes County, J. W. Donn, 1899; 1899).—In Eastern Bay, on the southern end of Bodkin Island, in an old field, and about 35 meters from the shore. The station is marked underground by a bottle buried 34 inches below the surface of the ground. Above this is placed a granite post 35 inches long, the bottom of the post being about 3 inches above top of bottle. The top of the post is dressed to a 5-inch square and is marked with square crosslines and the letters "U. S."

Bennett (Queen Annes County, J. W. Donn, 1899).—On the northern side of the entrance to Wye River, on Bennett Point, on a low grassy point, about 30 feet inside high-water mark. Station marked underground by a bottle placed about 34 inches below surface of ground. Above the bottle is a rough granite post 35 inches long and about 12 inches square, the bottom of the post being 3 inches above top of bottle. The top of the post is dressed to a 6-inch square and is marked with square crosslines and the letters "U. S."

Parsons (Queen Annes County, J. W. Donn, 1899; 1909).—In the northern part of Eastern Bay, on western side of Parsons Island, and about 3 miles north of Tilghmans Point, in a cultivated field, on highest part of island, about 15 feet above high water, 110 yards southeast of shore, 270 yards south-southwest of Parsons Island water tank, 350 yards southwest of a house, 380 yards west-southwest of a large barn, 145 yards northeast of a wire fence, 155 yards northwest of wire fence at farm road, 195 yards southeast of fence, and on range of the west edge of the south chimney on the lower gable of the house, with the west side of a window in the center of the south side of the house. Station is the center of a cross cut on rough granite stone about 35 inches long and 12 inches square, with the top cut to a 6-inch cube and marked with the letters "U. S." Subsurface mark is the mouth of a bottle 3 inches below base of the monument. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 26.10 meters (85.6 feet) from station in azimuth 201° 43′. Distances and azimuths to other points of reference are as follows: Cupola of left barn of Tilghmans Point farm, 3½ miles, 9° 55′; left chimney of house, 3 miles, 115° 45′; side peak of 2½-story house, 3⅛ miles, 132° 23′; middle chimney of large brick house, 1¼ miles, 154° 32′; Parsons Island water tank, 268 yards, 201° 52′; near peak of

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house, 400 yards, 213° 01′; right corner of barn, 382 yards, 239° 15′; walnut tree, 300 yards, 326° 05′.

Greenwood (Queen Annes County, J. W. Donn, 1899).—On eastern side of Eastern Bay, on northern end of small grassy island at the mouth of Greenwood Creek. Marked by nail in top of a cedar post, the top of the post being even with the surface of the ground.

Brian (Queen Annes County, P. A. Welker, 1899). —At the northeastern part of Eastern Bay, on Brian Point, near entrance to Hog Hole Creek, and about 100 feet inside high-water mark, in marshy ground. Marked by a 6-inch cedar post, about 4 feet long, driven into the marsh with about 8 inches of post left protruding above ground. Five copper nails driven into top surface of post in form of a square and the intersection of the diagonals thereof mark the center.

Hood (Queen Annes County, P. A. Welker, 1899).—On eastern side of Prospect Bay, in northern part of Eastern Bay, about ¼ mile north of extreme southern end of Hood Point, and about 30 feet inside high-water mark. Station is marked underground by a bottle placed about 37 inches below surface of ground. Above the bottle is placed a granite post 40 inches long and 12 inches square in the rough; the bottom of the post is 3 inches above the top of the bottle. The top of the stone is dressed to a 6-inch cube and is marked with square crosslines and the letters "U. S."

Sharp (Queen Annes County, P. A. Welker, 1899).—On the western side of Prospect Bay, in northern part of Eastern Bay, on a sharp grassy point about ¾ mile west by south from Hoods Point, on firm ground, about 75 feet inside high-water mark. Station marked underground by a bottle placed 34 inches below surface of ground; above the bottle is set a granite post 36 inches long and 12 inches square in the rough, the bottom of the post being 3 inches above the top of the bottle. The top of the post is dressed to a 6-inch cube and is marked with square crosslines and the letters "U. S."

Corn (Queen Annes County, P. A. Welker, 1899).—On the eastern shore of Cox Creek (Eastern Bay), at the edge of a corn field and about 50 feet inside the edge of a high bluff and about ¼ mile above end of point on opposite or western side of entrance to creek. Station marked by a bottle placed 31 inches below surface of ground. Above the bottle is placed a granite post 33 inches long and 12 inches square in the rough. The top of the post is dressed to a 6-inch cube and is marked with the square crosslines and the letters "U. S."

Coxes Creek (Queen Annes County, P. A. Welker, 1899).—On southeastern point of Batts Neck, on point at western side of entrance to Cox Creek (Eastern Bay), on firm ground surrounded by patches of marshy land, and about 20 feet inside high-water mark. Bushes grow to the west of the station. Station marked by a bottle 25 inches below surface of ground. Above the bottle is placed a granite post 27 inches long and 12 inches square in the rough, the bottom of the post being about 3 inches above top of bottle. The top of the post is dressed to a 6-inch square and is marked with square crosslines and the letters "U. S."

Red (Queen Annes County, P. A. Welker, 1899).—On Cox Neck, on western side of Crab Alley Bay, about ¼ mile south of entrance to Crab Alley Creek and on continuation of the west shore of creek. Station is eastern chimney on house with red-painted roof standing about 100 meters back from shore. The house is on what was known as the Edward Wringle Farm.

Hambleton (Talbot County, J. W. Donn, 1899).—On west side of Miles River, on point at east side of entrance to Hambleton Creek, at foot of an 8-foot bluff and at south end of a small grove of cedar and other trees. Station marked by nail in center of cedar stub driven in ground with top even with surface thereof.

Woodland (Talbot County, J. W. Donn, 1899).—On eastern side of Miles River, about ⅓ mile north of entrance to Woodland Creek, on a bluff about 10 feet high; station is 10 feet back from edge of bluff and is marked by a cedar stub with top even with surface of ground.

Oliver (Talbot County, J. W. Donn, 1899).—On eastern shore of Miles River, on an outward curve of the shore about ¼ mile south of Oliver's boathouse and residence, about 1¼ miles north of extreme end of Fairview Point, and is on a low bluff 4 feet high; a small body of woods with some large pines is just behind the station. Station marked by nail in cedar stub.

Deepwater Point (Talbot County, J. W. Donn, 1899).—On western shore of Miles River, on Deep Water Point, opposite Fairview Point. Station is on low sand hill, and was marked with a cedar stub.

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Fairview (Talbot County, J. W. Donn, 1899).—On eastern shore of Miles River, on Fairview Point, on border of marsh between small pond or slough and heavy woods. Marked by cedar stub.

Windmill Point (Talbot County, J. W. Donn, 1899).—On western side of Miles River, on point to north of entrance to St. Michaels Harbor, and south of entrance to Long Haul Creek. Station is about 6 feet from extreme end of point, which is composed of oyster shells covered with bushes. Cedars stand on the point behind the station. Station marked by cedar stub.

Marengo (Talbot County, J. W. Donn, 1899).—On eastern side of Miles River, on extreme western point of marsh above Gibsons Cove and opposite Spencer Creek. Marked by a cedar post 5 feet long, 12 inches bottom diameter and 7 inches top diameter. In center of top of post are four copper nails forming a square, with a fifth nail at center of square to mark station.

Spencer (Talbot County, J. W. Donn, 1899).—On western side of Miles River, on point at south side of entrance to Spencers Creek, in a little copse of trees. Marked by a bottle buried about 3 feet below surface of ground; above the bottle is a stone post, 33 inches long, 10 inches square in the rough, with top dressed to a 6-inch cube and marked with the letters "U. S.," with 4 inches of top projecting above surface of ground. The top of this stone is marked with square crosslines and the letters "U. S."

Gibson (Talbot County, J. W. Donn, 1899).—On eastern side of Miles River, near the north end of the woods that cover Long Point, and on a border of marsh, behind which are heavy woods. Marked by nail in cedar stub.

Miles River (Talbot County, J. W. Donn, 1899).—On western side of Miles River, on a border of marsh, behind which stands a pond. This marsh point is the most noticeable outward bend of the river between Spencer and Oak Creeks. Station marked by a stone post, 33 inches long, 10 inches square in the rough, with top dressed to a 6-inch cube and marked with square crosslines and the letters "U. S."

Royal (Talbot County, J. W. Donn, 1899).—On southern side of Miles River, on point just above entrance to Newcomb Creek. Marked by a stone post, 33 inches long, 10 inches square in the rough, the top dressed to a 6-inch cube and marked with square crosslines and the letters "U. S." The subsurface mark is a bottle buried below the stone post.

Oak (Talbot County, J. W. Donn, 1899).—On southern side of Miles River, west of entrance to Oak Creek, on border of marsh 50 meters from west end of railroad bridge. Marked by a stone 33 inches long, 10 inches square in the rough, its top dressed to a 6-inch cube, and marked with square crosslines and the letters "U. S."

Needle (Queen Annes County, C. C. Yates, 1909).—In the northern part of Eastern Bay, on Bodkin Island, at entrance to Crab Alley Bay, about 1½ miles west of the south end of Parsons Island, and 1 mile east-southeast of Turkey Point. Station is near the south end of Bodkin Island, about 12 feet above high water, 50 yards north by west of shore, 90 yards northeast by east of shore, 115 yards west-southwest of shore, and in center of radial lines of sight cut in bushes. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 7-inch pine tree, 18.20 meters (59.7 feet), 33° 42′; nail in blaze in 6-inch pine tree, 22.78 meters (74.7 feet), 54° 08′; nail in blaze in 8-inch pine tree, 17.17 meters (56.3 feet), 76° 13′; right chimney of large house, 3½ miles, 112° 46′; nail in blaze in 6-inch pine tree, 11.54 meters (37.9 feet), 130° 24′; chimney of house on Parsons Island, 2⅛ miles, 243° 00′; cupola on left barn of Tilghmans Point farm, 3 miles, 337° 57′.

Straight (Queen Annes County, C. C. Yates, 1909).—On the northern shore of Eastern Bay, on Long Point, about 2 miles northeast of Kent Point, 2½ miles northwest of Wades Point, and ⅛ mile northeast of entrance to Long Point Creek, in a cultivated field, about 8 feet above high water, 35 yards west of edge of bank, 45 yards northwest of edge of bank near tree, 80 yards south-southwest of fence corner, 245 yards south-southeast of fence corner at gate, and 175 yards east-southeast of woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left tangent of woods on Kent Island, 2 miles, 48° 03′; south peak of building, ½ mile, 132° 33′; east peak of barn, ¾ mile,

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186° 03′; south chimney of house, ¼ mile, 198° 25′; chimney of house on Tilghmans Point farm, 4⅛ miles, 270° 42′; nail in blaze in 22-inch red oak tree, 31.06 meters (101.9 feet), 342° 14′.

Kemp (Talbot County, C. C. Yates, 1909).—On the southern shore of Eastern Bay, on Wades Point, about 1⅜ miles southwest of Claiborne Wharf, and 4⅞ miles east by south of Bloody Point Bar Light, in cultivated land, about 8 feet above high water, 30 yards east by north of wire fence and several trees, 55 yards south-southeast of edge of bank, 90 yards east-northeast of a bungalow, 130 yards north by west of wire and wood fence corner, 130 yards north-northwest of wooden fence, and 400 yards west by south of Wades Point Hotel. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 14-inch locust tree, 35.07 meters (115.1 feet), 98° 04′; chimney on middle of house, 3⅞ mile, 113° 35′; chimney of house, 3½ miles, 127° 27′; left chimney of house, 3 miles, 141° 50′; left tangent of Tilghmans Point, 3½ miles, 224° 29′; fence corner (wood and wire), 132 yards, 341° 06′; near corner of cookhouse, 110 yards, 25° 03′; nail in blaze in 7-inch locust tree, 27.23 meters (89.3 feet), 36° 43′; right corner post of piazza, 90 yards, 42° 47′; nail in blaze in 6-inch cedar tree, 26.97 meters (88.5 feet), 307° 07′.

Tenk (Queen Annes County, C. C. Yates, 1909).—On the northern side of entrance to Eastern Bay, on Kent Point, at the southern extremity of Kent Island, about 1¼ miles east of Bloody Point Bar Light. Station is in about 2 feet of water, 18 yards offshore of Kent Point, 50 yards southwest of point of land, and 65 yards south-southeast of another point of land. Station mark is nail in center of 3-inch square stub with top about on level with high water. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting about 6 inches above surface of ground. It is 35.94 meters (117.9 feet) from station in azimuth 143° 44′. Distances and azimuths to other points of reference are as follows: Chimney left of house among trees on Poplar Island, 3¾ miles, 5° 00′; chimney of house on Tilghmans Point farm, 5⅞ miles, 255° 59′; flagpole on Claiborne train shed, 4½ miles, 267° 47′; right chimney of house, 4½ miles, 275° 07′; right chimney of brick house, 3¾ miles, 292° 50′; right chimney of house, 4½ miles, 326° 45′.

Haddaway (Talbot County, C. C. Yates, 1909).—On the eastern shore of Chesapeake Bay, on Lows Point, between Harbor Cove and Haddaway Cove, and about 2 miles east of north end of Poplar Island, on a marsh point, about 1 foot above high water, 65 yards north of shore, 100 yards south of shore, 140 yards east of shore, and 25 yards west of woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 6-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of house on Poplar Island, 2¼ miles, 52° 37′; chimney of house on Poplar Island, 2⅜ miles, 81° 09′; left peak of barn on Poplar Island, 2⅜ miles, 82° 29′; chimney of two-story house, 4 miles, 208° 03′; nail in blaze in 14-inch pine tree, 36.78 meters (120.7 feet), 221° 48′; nail in blaze in 12-inch pine tree, 28.77 meters (94.4 feet), 247° 00′; nail in blaze in 8-inch pine tree, 26.44 meters (86.8 feet), 295° 53′; chimney on ell of house, 1⅜ miles, 357° 18′.

Valliant (Talbot County, C. C. Yates, 1909).—On the eastern shore of Chesapeake Bay, on western shore of Poplar Island, about ¾ mile southwest of extreme north end of island, in cultivated land about 5 feet above high water, 15 yards north by east of a line of small trees, 72 yards east by south of shore at end of line of trees, and 210 yards south by west of point of woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 3-inch persimmon tree, 11.90 meters (39.0 feet), 45° 45′; nail in blaze in 3-inch peach tree, 17.83 meters (58.5 feet), 77° 53′; near corner of shanty in field, 200 yards, 256° 18′; chimney of house, ¼ mile, 269° 32′; flagstaff on Lowes Wharf, 3 miles, 276° 00′; chimney of house on point behind trees, 2¾ miles, 297° 36′; chimney of small house, ⅝ mile, 339° 35′; nail in blaze in 4-inch peach tree, 15.14 meters (49.7 feet), 351° 15′.

Benn (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of Miles River, on Bennett Point, at western side of entrance to Wye River, on a

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marsh point about 1 foot above high water, 75 yards northeast of extreme end of point, 100 yards southwest from edge of woods, and in center of triangle formed by three pine stubs driven flush with marsh to support theodolite. Station mark is center of triangle on standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 1 foot above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: South chimney of house on Tilghmans Point farm, 3 miles, 93° 40′; cupola of barn, 1 mile, 308° 26′.

Pearson (Talbot County, C. C. Yates, 1909).—On the western shore of Miles River, on Tilghmans Point, about ⅜ mile south-southeast of northern end of point, on a wooded bluff about 20 feet above high water, 5 yards west of top of vertical bank at shore, and 100 yards north of first point south of northern end of Tilghmans Point. Station mark is center of 2-inch tile pipe projecting 2 inches above surface of ground; subsurface mark is center of 2-inch tile pipe buried with top 2 inches below base of surface pipe. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. It is 12.66 meters (41.5 feet) from station in azimuth 93° 57′. Other distances and azimuths are as follows: Nail in blaze in 8-inch white oak tree, 5.31 meters (17.42 feet), 43° 56′; nail in blaze in 12-inch white oak tree, 9.99 meters (32.78 feet), 105° 05′; south gable of house on Parsons Island, 3½ miles, 183° 03′; south chimney of house, 3½ miles, 237° 34′; west chimney of house, 2⅞ miles, 252° 17′; west gable of barn, 3½ miles, 288° 17′; west chimney of house, 3¼ miles, 337° 16′; north chimney of house, 3⅛ miles, 351° 06′; chimney of house, 2½ miles, 356° 22′.

Green (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of Prospect Bay, on point at northwest side of entrance to Greenwood Creek, about 3 miles northeast of Tilghmans Point, and 2¾ miles north of Bennett Point. Station is on a sanded marsh point, about 2 feet above high water, 5 yards northwest of shore, 26 yards northwest of shore, 53 yards east by north of point of shore, 37 yards southeast by east of a point of shore, and 105 yards south-southwest of a point of woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right tangent of woods on Tilghmans Point, 3⅜ miles, 52° 46′; east chimney of brick house, 3½ miles, 125° 27′; peak of small house, 4 miles, 155° 50′; chimney outside of house, 4 miles, 166° 28′; near peak of barn, 3 miles, 179° 05′; peak of house, 1 mile, 236° 30′; chimney of house behind barn, ⅜ mile, 316° 46′; square chimney of house, 1½ miles, 346° 26′.

Brian Reference Station (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of Prospect Bay, on Brian Point, about 1 mile southeast of Piney Point, 2 miles northeast of Parsons Island, and ⅜ mile west of entrance to Hog Hole Creek, on a marsh point about 1 foot above high water, 13 yards east of edge of marsh, 14 yards northwest of edge of marsh, 18 yards north of extreme end of point, and 40 yards southwest of a cultivated field. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Right tangent of woods on Parsons Island, 2¼ miles, 56° 38′; middle chimney of large brick house, 2¼ miles, 75° 42′; cupola on barn, 2¾ miles, 93° 39′; left peak of large house, 2⅝ miles, 103° 13′; near peak of house, ½ mile, 273° 52′; chimney of house, 1¼ miles, 335° 47′; left tangent of woods on Bennett Point, 4 miles, 356° 00′.

Alley (Queen Annes County, C. C. Yates, 1909).—On the western shore of Prospect Bay, on Crab Alley Neck, about ¾ mile north of Parsons Island, and ⅜ mile north of Narrows Point, on hard ground in marsh at northeast end of clump of 12 persimmon trees, about 1 foot above high water and 75 yards southwest of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 3-inch persimmon tree, 4.88 meters (16.01 feet), 12° 21′; nail in blaze in 3-inch persimmon tree, 3.70 meters (12.14 feet), 55° 50′; east chimney of brick house, ½ mile, 63° 27′; nail in blaze in 3-inch persimmon tree, 3.29 meters (10.79 feet), 115° 46′; chimney of house among trees, 1½ miles, 135° 19′; nail in blaze in 4-inch persimmon tree, 3.99 meters (13.09 feet), 208° 06′; left chimney of old house with two dormer windows,

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2⅜ miles, 225° 54′; left peak of barn, 2¾ miles, 257° 07′; left chimney of large house, 2¾ miles, 290° 59′.

Herr (Talbot County, C. C. Yates, 1909).—In Miles River, about 1¼ miles southwest of entrance to Wye River, on sandy ground in the center of Herring Island, about 2 feet above high water, 30 yards northeast of shore and 30 yards southwest of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left chimney of Seth house, 2 miles, 76° 16′; north chimney of house, 2⅜ miles, 87° 59′; north chimney of house on Tilghmans Point farm, 2⅞ miles, 119° 02′; right tangent of Tilghmans Point, 2⅞ miles, 133° 41′; north chimney of small house, 2¾ miles, 211° 33′; cupola of barn, 1½ miles, 251° 51′; north gable of barn, 1¾ miles, 301° 14′; east gable of barn, 3 miles, 312° 14′.

Seth (Talbot County, C. C. Yates, 1909).—On the southwestern shore of Miles River, on a point about 2¼ miles south of the northern end of Tilghmans Point, and ¾ mile northwest of entrance to Porters Creek, in a clump of cedar trees about 12 feet above high water, 9 yards southwest of top of vertical bank washed by high water, 50 yards northwest of extreme end of point, and 400 yards northeast of a house. Station mark is center of 2-inch tile pipe projecting 3 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 12 inches above surface of ground. It is 9.56 meters (31.36 feet) from station in azimuth 67° 41′. Other distances and azimuths are as follows: Nail in blaze in 12-inch cedar tree, 10.89 meters (35.7 feet), 44° 27′; nail in blaze in 6-inch cedar tree, 4.44 meters (14.57 feet), 119° 07′; south gable of house, 5½ miles, 181° 19′; cupola of barn, 3 miles, 255° 59′.

Sara (Talbot County, C. C. Yates, 1909).—On the southwestern shore of Miles River, about 3 miles south-southeast of the northern end of Tilghmans Point, 1¼ miles southwest of Herring Island, and on point at eastern side of entrance to Hambleton Creek, in a cultivated field about 15 feet above high water, 16 yards southwest of a bluff 12 feet high with uniform slope to shore, and 20 yards east of depression 4 feet deep. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 12-inch hackberry tree, 22.02 meters (72.2 feet), 31° 13′; nail in blaze in 12-inch cedar tree, 12.66 meters (41.5 feet), 76° 27′; right tangent of Tilghmans Point, 3¼ miles, 155° 12′; south gable of barn, 4 miles, 213° 03′; west chimney of house, ½ mile, 359° 54′.

Wood (Talbot County, C. C. Yates, 1909).—On the eastern shore of Miles River, about 1 mile southeast of Bennett Point, 1 mile east-northeast of Herring Island, and ¾ mile north-northwest of entrance to Woodland Creek, in a cultivated field, about 18 feet above high water, 18 yards east of shore and top of vertical bank 18 feet high, and 5 yards south of wire fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of house, 3 miles, 76° 18′; south chimney of house on Tilghmans Point farm, 3⅝ miles, 108° 27′; right tangent of Tilghmans Point, 3½ miles, 120° 05′; left tangent of marsh on Bennett Point 1⅛ miles, 151° 25′; west gable of barn, ½ mile, 242° 32′.

Mouth (Queen Annes County, C. C. Yates, 1909).—On the northwesterly shore of Eastern Bay, on eastern shore of Kent Island, about 1¼ miles north of Long Point, 3 miles southwest of Bodkin Island, in a cultivated field, about 8 feet above high water, 10 yards west of top of bank with uniform slope to shore, 50 yards south of a small cove, and 20 yards south of a group of cedar trees near shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: East chimney of Legg house, ⅝ mile, 39° 10′; chimney of small house, 1½ miles, 100° 46′; south gable of barn, 1⅞ miles, 156° 57′; west gable of house, 2¼ miles, 207° 46′; right tangent of woods on Turkey Point, 3 miles, 224° 36′; left tangent of woods on Tilghmans Point, 4¼ miles, 277°

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16′; south chimney of house on Tilghmans Point farm, 4 miles, 286° 30′; south gable of Claiborne Wharf house, 3½ miles, 311° 52′.

Turkey (Queen Annes County, C. C. Yates, 1909).—On the northern shore of Eastern Bay, on southern end of Cox Neck, on Turkey Point, about 1 mile west of the north end of Bodkin Island, in a marsh meadow, about 2 feet above high water, 40 yards northeast of shore, 200 yards south of a group of three pine trees near shore, and in center of triangle formed by three pine stubs driven flush with marsh to support theodolite. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left tangent of woods on Long Point, 3 miles, 32° 57′; chimney of house, 2¾ miles, 63° 50′; chimney of Greeve house, 2½ miles, 89° 45′; south cupola on barn, 2¾ miles, 108° 51′; north chimney of house, 2½ miles, 113° 01′; south chimney of house, 1¾ miles, 144° 10′; south chimney of house, 2½ miles, 153° 53′; west pine tree of group, 200 yards, 172° 43′; right tangent of Bodkin Island, 1 mile, 295° 17′; left tangent of Tilghmans Point, 3½ miles, 315° 54′; north chimney of house on Tilghmans Point farm, 3¾ miles, 327° 09′.

Matta (Queen Annes County, C. C. Yates, 1909).—On the northwestern shore of Eastern Bay, about 2 miles west of Turkey Point, on the eastern shore of Kent Island, at southwestern side of entrance to Shipping Creek, in a cultivated field, about 15 feet above high water, 125 yards southwest of extreme end of point, 25 yards northwest of dry ditch, and 200 yards northeast of lone cedar tree near shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of Greeve house, ¼ mile, 12° 38′; south chimney of house, ¾ mile, 118° 59′; south cupola of barn, ⅞ mile, 135° 24′; east chimney of house, 1½ miles, 161° 43′; chimney of small house, 1¼ miles, 183° 57′; west chimney of house, 1⅛ miles, 193° 30′; north chimney of house, 2 miles, 265° 39′; left tangent of woods on Long Point, 2½ miles, 353° 34′.

Batts (Queen Annes County, C. C. Yates, 1909).—On the northern shore of Eastern Bay, on southern end of Batts Neck, between Shipping and Cox Creeks, and about 1¼ miles northwest of Turkey Point, in a cultivated field about 2 feet above high water, 21 yards north of shore, and 100 yards west of a wire fence extending 100 yards into bay. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Station Coxes Creek of 1899 is 87.70 meters (287.7 feet) from station in azimuth 252° 20′. It is marked on the surface by a granite post with top dressed 6 inches square and marked with a square cross and the letters "U. S." Other distances and azimuths are as follows: East gable of house, 2½ miles, 18° 06′; nail in blaze in 6-inch persimmon tree, 9.76 meters (32.02 feet), 32° 50′; south chimney of house, ⅜ mile, 143° 42′; south chimney of house, ¾ mile, 184° 08′; south gable of barn, 1½ miles, 213° 30′; north chimney of house, 1⅜ miles, 234° 58′; north chimney of house, 1⅛ miles, 282° 43′. Nail in blaze in one of twin 4-inch persimmon trees 3.94 meters (12.93 feet), 339° 12′.

Some (Queen Annes County, C. C. Yates, 1909).—On the northern shore of a small bay, at entrance to Shipping Creek, on a point between two small creeks, about ¾ mile north of Eastern Bay and 1¾ miles northwest of Turkey Point, in a cultivated field, about 5 feet above high water, 20 yards northeast of marsh, 30 yards northwest of edge of bank, 28 yards east of edge of bank, 50 yards northeast of shore of Shipping Creek, and 53 yards southwest of shore of small creek. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Peak between two chimneys of large house, 1⅛ miles, 23° 17′; right peak of barn, 1⅛ miles, 56° 00′; near peak of house, ¾ mile, 76° 19′; near peak of large barn, ⅜ mile, 122° 44′; left chimney of old house, ¼ mile, 145° 06′; spindle on cupola on barn, ½ mile, 172° 36′; large pine tree, ⅜ mile, 258° 20′; left corner of large house, ¾ mile, 290° 24′; large lone tree, ½ mile, 329° 54′.

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Then (Queen Annes County, C. C. Yates, 1909).—On the western shore of small bay at entrance to Shipping Creek, about ¾ mile northwest of Eastern Bay, ⅜ mile northeast of entrance to narrow part of Shipping Creek, and at western side of entrance to smaller creek. Station is on marsh, about 1 foot above high water, 33 yards west of shore, 50 yards north of shore at line between hard land and marsh, 8 yards east of pasture land, and ¼ mile east of 2½-story house. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right corner of large house, 1 mile, 4° 22′; large lone tree in field, 250 yards, 67° 02′; near peak of house, ¼ mile, 89° 33′; near peak of house, ⅜ mile, 135° 54′; left peak of house, ½ mile, 189° 40′; left peak of large house, ½ mile, 212° 26′; near peak of brick house, 265° 40′; large lone tree on point, ¾ mile, 294° 58′; weather vane on barn cupola, 3 miles, 359° 25′.

COX, THOMPSONS, AND WAREHOUSE CREEKS

Dell (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of Cox Creek, about 1½ miles north of Eastern Bay, and 1 mile south of entrance to Warehouse Creek, in a cultivated field, about 10 feet above high water, 43 yards from shore, 28 yards northeast of top of bank, and 30 yards northeast of a lone cedar tree at edge of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of house, 3¼ miles, 26° 45′; left tangent of house, 1 mile, 55° 34′; north chimney of house, ½ mile, 70° 47′; chimney of small house, 1¼ miles, 118° 57′; south chimney of house, 1¼ miles, 137° 30′; west chimney of house, ½ mile, 170° 57′; cupola on barn, ¼ mile, 213° 23′; west gable of barn, ½ mile, 285° 40′; left tangent of small fishing shack, ⅝ mile, 325° 41′; right tangent of barn, 1¼ miles, 337° 09′.

Top (Queen Annes County, C. C. Yates, 1909).—On the western shore of Cox Creek, about 1 mile north of Eastern Bay and 1 mile south of Warehouse Creek. Station is center point of top of cupola of barn about 150 yards east of shore.

Ware (Queen Annes County, C. C. Yates, 1909).—On the western shore of Cox Creek, about 2 miles north of Eastern Bay and ¼ mile south of entrance to Warehouse Creek, in a cultivated field, about 15 feet above high water, 300 yards northwest of end of point, and 90 yards south of wire fence extending east and west. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 7 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of house, 1¼ miles, 5° 33′; south chimney of house, 350 yards, 91° 40′; south chimney of house, ½ mile, 141° 39′; south gable of house, 1½ miles, 194° 56′; south chimney of house, 1¼ miles, 212° 50′; north chimney of house, 1 mile, 228° 35′; cupola on barn, ⅝ mile, 293° 31′.

Tom (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of Cox Creek, about 2 miles north of Eastern Bay, and ½ mile southwest of entrance to Warehouse Creek, in a cultivated field about 12 feet above high water, 300 yards east of shore, 135 yards north of a graveyard, 100 yards southwest of a house, and 40 yards south of driveway beyond wire fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North gable of barn, 1¼ miles, 25° 04′; north chimney of house, ¾ mile, 34° 04′; chimney of small house, ¾ mile, 88° 20′; southwest corner of east house on road, 100 yards, 140° 06′; south gable of small barn, 2¼ miles, 173° 14′; east chimney of house, 1¾ miles, 182° 34′; chimney of house, ⅞ mile, 204° 48′; north chimney of house ⅜ mile, 288° 25′.

Greek (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of Cox Creek, on point about 2¾ miles north of Eastern Bay and ½ mile east of entrance to Warehouse Creek, on a marsh point about 1 foot above high water, 60 yards southwest of extreme end of point, and 125 yards east of a small

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marsh island. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of small house, ⅝ mile, 20° 14′; south chimney of house, 1 mile, 59° 05′; south chimney of house, ⅞ mile, 86° 42′; east chimney of house, 1½ miles, 142° 47′; south gable of barn, 2¼ miles, 154° 29′; east chimney of house, 1¼ miles, 173° 47′; east chimney of house, ⅝ mile, 192° 24′; north chimney of house, ¼ mile, 219° 36′; chimney of house, ¼ mile, 268° 07′; cupola of barn, ¾ mile, 304° 18′.

Tuxon (Queen Annes County, C. C. Yates, 1909).—On the western shore of Cox Creek, on a point about 3 miles north of Eastern Bay, ½ mile south of entrance to Thompsons Creek, and ¼ mile northeast of entrance to Warehouse Creek, on marsh, about 2 feet above high water, and 50 yards west of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 8 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of house, ¾ mile, 25° 54′; north chimney of house, ⅝ mile, 55° 37′; south gable of barn, 1 mile, 146° 15′; north chimney of house, ¾ mile, 214° 04′; north chimney of house, ⅝ mile, 236° 15′; north chimney of house, ½ mile, 281° 11′; cupola on barn, 1⅛ miles, 305° 53′; east chimney of house, ⅞ mile, 349° 19′.

Ville (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of Cox Creek, about 3 miles north of Eastern Bay, ⅝ mile northeast of entrance to Warehouse Creek, and ½ mile southeast of entrance to Thompsons Creek, in a pasture, about 5 feet above high water, 8 yards east of edge of bank, 33 yards south of tangent of cliff, 60 yards north of small ditch, and 115 yards north of wire fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left corner of house, 1 mile, 41° 55′; right peak of house, 1 mile, 65° 27′; left peak of brick house, 1 mile, 123° 47′; left corner of large brick house, 1¼ miles, 133° 35′; right peak of very long barn, 1¼ miles, 156° 08′; left corner of house, ¼ mile, 168° 55′; near peak of house, ¾ mile, 272° 12′; left corner of house, ¾ mile, 310° 15′; right corner of modern house, 1¼ miles, 336° 06′.

Steve (Queen Annes County, C. C. Yates, 1909).—On the western shore of Cox Creek, on a point about 3 miles north of Eastern Bay, at southwestern side of entrance to Thompsons Creek and ½ mile north of entrance to Warehouse Creek, on marshland, about 1 foot above high water, 27 yards south of shore, 35 yards north of shore, 20 yards west of a point of shore, and 35 yards east of a point of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left chimney of small house, 1⅛ miles, 17° 32′; right peak of small house, 1¼ miles, 37° 59′; near peak of house, 1 mile, 112° 31′; left corner of brick house, ¾ mile, 138° 05′; chimney of small house, ¾ mile, 143° 50′; right peak of very large house, 1 mile, 172° 55′; near corner of large house, ¾ mile, 208° 37′; near corner of large house, ⅝ mile, 235° 15′; near peak of house, ½ mile, 266° 54′; near peak of house, ¾ mile, 307° 25′; weather vane on house with two chimneys, 1¼ miles, 351° 50′.

Timber (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of Cox Creek, about 3¼ miles north of Eastern Bay, ¾ mile northeast of entrance to Warehouse Creek, and opposite entrance to Thompsons Creek, in a pasture, between large cherry tree at the edge of the water and four cedar trees at the edge of the bank, about 5 feet above high water, 4 yards east of edge of bank, 17 yards east of point, 6 yards southeast of edge of bank, and 12 yards northeast of edge of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 30-inch cherry tree, 13.45 meters (44.1 feet), 16° 54′; right peak of house, 1¼ miles, 31° 28′; nail in blaze in 8-inch stump, 6.12 meters (20.08 feet), 33° 13′; right peak of house, 1⅛ miles, 49° 18′; left corner of large brick house, 1 mile, 124° 17′; nail in blaze in 5-inch cedar tree,

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6.80 meters (22.31 feet), 160° 33′; left corner of left chimney of house, ⅜ mile, 204° 24′; left corner of house, 400 yards, 269° 24′; right corner of building, ½ mile, 333° 09′.

Landing (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of Thompsons Creek, about ⅛ mile northwest of Cox Creek, on marsh, about 1 foot above high water, 16 yards northwest of cut in shore, 20 yards north-northwest of point of shore, 14 yards east of point, 12 yards southeast of shore, 100 yards west of cultivated land, and 250 yards south of woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Weather vane on middle of house with two chimneys, 1⅝ miles, 356° 05′; right chimney of house, 1⅛ miles, 28° 08′; left corner of large brick house, ⅝ mile, 111° 39′; right peak of very large house, ¾ mile, 163° 45′; right corner of large house, ⅝ mile, 237° 16′; large house, ⅞ mile, 275° 30′; right peak of barn, 1¼ miles, 309° 20′; left peak of barn, 1 mile, 322° 34′.

Thompson (Queen Annes County, C. C. Yates, 1909).—On the western shore of Thompsons Creek, about ⅜ mile west of point of land between Thompsons Creek and Cox Creek and ⅛ mile northwest of small cove, on marsh, about 1 foot above high water, 30 yards south of shore, 45 yards northwest of shore, 20 yards southwest of point of shore, and 120 yards south-southeast of rail fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right chimney of house, 1 mile, 17° 30′; left corner of brick house, ½ mile, 135° 00′; near peak of house, 1⅛ miles, 162° 08′; right corner of very large house, ¾ mile, 185° 03; near peak of large house showing through trees, 1 mile 196° 59′; near corner of large house, ½ mile, 242° 23′; near peak of large house, ⅝ mile, 264° 18′; right peak of house, ¾ mile, 286° 56′; left corner of house, 1 mile, 312° 05′.

Hope (Queen Annes County, C. C. Yates, 1909).—On the western shore of Thompsons Creek, on point between Thompsons Creek and a smaller creek about ½ mile northwest of Cox Creek, on marsh land, about 1 foot above high water, 40 yards west of shore, 90 yards northwest of shore, and 200 yards east-southeast of end of fence. Station mark is center of triangle on standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground; subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right tangent of near-chimney of large house, ⅞ mile, 75° 28′; near peak of large brick house, ⅝ mile, 85° 17′; near peak of house, ⅞ mile, 149° 30′; right peak of large house, ⅝ mile, 178° 30′; right corner of near-chimney of house, ⅝ mile, 289° 25′; right corner of near-chimney of house, ⅝ mile, 298° 52′; near peak of house, 1½ miles, 327° 31′; weather vane on house with two chimneys, 1⅞ miles, 351° 04′.

Knock (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of Thompsons Creek, about ½ mile north of Cox Creek, and opposite a point of land between Thompsons Creek and a cove. Station is in southwest end of point of woods, about 1 foot above high water, 6 yards east of shore, and 60 yards south-southwest of point of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of large house, 1½ miles, 80° 08′; near peak of large brick house, ⅝ mile, 91° 10′; left peak of very large barn, ½ mile, 148° 26′; nail in blaze in 6-inch pine tree, 5.50 meters (18.04 feet), 181° 04′; nail in blaze in 8-inch pine tree, 23.81 meters (78.1 feet), 223° 52′; nail in blaze in 10-inch oak tree, 7.15 meters (23.46 feet), 273° 43′; right corner of near-chimney of large house, ⅞ mile, 292° 29′.

Coffee (Queen Annes County, C. C. Yates, 1909).—On the southwestern shore of Warehouse Creek, on a point about ½ mile northwest of Cox Creek, on a marsh, about 1 foot above high water, 9 yards south of point of shore, 13 yards southwest of shore, 17 yards west-northwest of shore at fence, 12 yards north of fence, 29 yards east-northeast of corner of fence, and 250 yards north-by-east of house with two chimneys. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground; subsurface mark is center of

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2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in fence post, 14.14 meters (46.4 feet), 12° 14′; left peak of barn, 1¼ miles, 149° 03′; left chimney of brick house, 1¼ miles, 177° 54′; west chimney of house, 1¼ miles, 226° 55′; near peak of house, 1¼ miles, 240° 00′; left peak of house, 1⅛ miles, 262° 25′; cupola on barn, 1½ miles, 286° 47′; nail in blaze in fence post, 16.57 meters (54.4 feet), 299° 29′; nail in blaze in fence post, 12.29 meters (40.3 feet), 346° 49′; near corner of house, 250 yards, 352° 16′.

Liver (Queen Annes County, C. C. Yates, 1909).—On the northeastern shore of Warehouse Creek, on point at western side of entrance to a small cove about ½ mile northwest of Cox Creek, on a marsh point, about 1 foot above high water, 15 yards northwest of shore, 17 yards southeast of shore, 30 yards north of point of shore, 30 yards northeast of extreme end of point, and 250 yards southwest by south of three large trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground; subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right peak of small house, ⅝ mile, 21° 57′; left peak of house with three dormer windows, 1 mile, 140° 47′; left peak of very large barn, 1⅛ miles, 185° 32′; clump of pine trees, 250 yards, 203° 11′; west chimney of house, 1⅛ miles, 230° 08′; left peak of house, 1 mile, 278° 00′; cupola on barn, 1¼ miles, 295° 53′; left tangent of left chimney of large house, 1¾ miles, 357° 53′.

Here (Queen Annes County, C. C. Yates, 1909).—On the southwestern shore of Warehouse Creek, on point at northwestern side of entrance to a small cove about ¾ mile northwest of Cox Creek, on marsh, about 1 foot above high water, 17 yards west of shore, 20 yards southwest of shore, 25 yards northwest of shore, 60 yards north of shore, 3 yards southeast of one-strand barbed-wire fence, and ¼ mile east to southeast of woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Peak of side gable of house, 1½ miles, 37° 16′; left end of large house, ¾ mile, 166° 02′; chimney outside northwest end of large house, 1⅞ miles, 231° 56′; near peak of house, 1¾ miles, 254° 23′; cupola on barn, 1¾ miles, 290° 39′; cupola on barn, 1¾ miles, 308° 07′; middle north chimney of large old brick house, ¾ mile, 327° 01′.

Samuel (Queen Annes County, C. C. Yates, 1909).—On the northeastern shore of Warehouse Creek, at northwestern side of entrance to a small cove about ¾ mile north of Cox Creek, on a long marsh point, about 1 foot above high water, 9 yards east of shore of Warehouse Creek, 23 yards west-southwest of shore of small cove, 18 yards north of point, and 27 yards west of another point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 7 inches above surface of ground; subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left chimney of large house, 1½ miles, 36° 20′; chimney of house showing through trees, ¾ mile, 152° 11′; left corner of large brick house, 1¼ miles, 191° 13′; chimney outside near end of house, 1¼ miles, 247° 40′; left peak of house, 1¼ miles, 282° 36′; cupola on barn, 1½ miles, 297° 27′; spindle on barn cupola, 1¾ miles, 315° 47′; near peak of small house, ⅝ mile, 338° 24′.

CRAB ALLEY BAY

Norman (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of Crab Alley Bay, on southwestern extremity of Crab Alley Neck, about ¼ mile west of Normans Point, 2 miles northeast of Turkey Point, and ⅞ mile northwest of Parsons Island, in a cultivated field on a rapidly washing narrow neck of land, about 6 feet above high water, 20 yards north of vertical bank at shore, 30 yards south of vertical bank at shore, and 40 yards northeast of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left tangent of woods on Bodkin Island, 2 miles, 29° 48′; right tangent of Bodkin Island, 2 miles, 39° 59′; right tangent of woods on Turkey

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Point, 2 miles, 54° 37′; nail in blaze in 6-inch hackberry tree, 22.49 meters (73.8 feet), 74° 02′; chimney of small house, 1¾ miles, 115° 42′; east chimney of house, 2¼ miles, 129° 01′; south gable of house, 1 mile, 166° 58′; west chimney of large brick house, ¼ mile, 233° 13′; chimney of small house, 3 miles, 253° 42′; right tangent of Parsons Island, 1¼ miles, 338° 06′.

Cox (Queen Annes County, C. C. Yates, 1909).—On the western shore of Crab Alley Bay, on Cox Neck, about ⅜ mile north of Eastern Bay and 1 mile northwest of Bodkin Island, at edge of cultivated field, on narrow neck of land, about 3 feet above high water, 16 yards west of shore, 18 yards east of shore, and 80 yards northwest of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: East gable of barn, ⅜ mile, 59° 36′; chimney of house, 3 miles, 65° 18′; chimney of house, 2⅞ miles, 88° 24′; chimney of small house, 2½ miles, 205° 28′; chimney of house, 2½ miles 213° 53′; cupola on barn, 2¾ miles, 222° 43′; right corner of old barn, 2⅛ miles, 242° 01′; east chimney of large brick house, 2⅛ miles, 247° 06′; right tangent of Normans Point, 2 miles, 254° 14′; north gable of barn on Parsons Island, 2½ miles, 272° 24′; left tangent of Bodkin Island, ⅞ mile, 316° 21′.

Tull (Queen Annes County, C. C. Yates, 1909).—Off the eastern side of Kent Island and on the western side of Crab Alley Bay, about 2¼ miles north of Bodkin Island, 1½ miles northwest of Normans Point, on northern end of Johnson Island, at entrance to Crab Alley Creek. Station is in marsh meadow about 2 feet above high water, 18 yards south of shore, 53 yards west of extreme northeast end of Johnson Island, and 40 yards north of group of pine trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left tangent of pine woods on Turkey Point, 2 miles, 7° 59′; chimney of house, ¼ mile, 17° 29′; east gable of house, ⅝ mile, 101° 43′; south chimney of house, ¼ mile, 133° 49′; chimney of small tenant house, ¾ mile, 157° 47′; cupola on barn, 1 mile, 160° 05′; right tangent of fishing shack, ½ mile, 216° 02′; cupola on barn, 1¼ miles, 270° 58′; left tangent of small island, ⅝ mile, 342° 10′.

Over (Queen Annes County, C. C. Yates, 1909).—On the northeast shore of Crab Alley Bay, on a point about 1¼ miles north-northwest of Normans Point, on edge of a cultivated field, near a number of locust and wild cherry trees, about 3 feet above high water, 11 yards northeast of shore, 50 yards southeast of end of marsh point, and 4 yards north of corner of rail fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right tangent of Bodkin Island, 2½ miles, 17° 14′; left tangent of Pine woods on Turkey Point, 2½ miles, 30° 18′; chimney of house, 1⅛ miles, 77° 45′; chimney of small house, 1 mile, 87° 01′; chimney of house, 1¼ miles, 99° 46′; chimney of house, ⅝ mile, 154° 51′; nail in blaze in 8-inch wild cherry tree, 8.98 meters (29.46 feet), 160° 25′; south gable of house, ½ mile, 171° 32′; nail in blaze in 8-inch locust tree, 7.13 meters (23.39 feet), 255° 28′; west chimney of house, 200 yards, 277° 43′.

PROSPECT BAY

Bonnet (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of Prospect Bay, on Hoods Point, about 1½ miles southeast of Hog Island, and ½ mile west of Piney Point, on marsh ground, about 1 foot above high water, 21 yards west of shore, 12 yards west of inlet, and 55 yards northeast of extreme end of Hoods Point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground; subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: South chimney of house on Kent Island, 1¾ miles, 42° 53′; cupola on barn, 1¾ miles, 72° 38′; chimney of house, 1¼ miles, 103° 40′; east gable of barn, 1¼ miles, 107° 53′; north chimney of house, 2 miles, 143° 33′; south gable of barn, 2⅛ miles, 170° 12′; chimney on small house, ⅝ mile, 217° 26′; west gable of house, 1⅝ miles, 278° 35′; chimney of small house, 2½ miles, 318° 42′.

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Dull (Queen Annes County, C. C. Yates, 1909).—On the western shore of Prospect Bay, on point at northern side of entrance to a cove, about 2 miles south of Kent Narrows railroad bridge, ⅞ mile west-southwest of Hoods Point, and 1 mile north of Narrows Point, in marshland, about 1 foot above high water, 30 yards west of shore, 40 yards northeast of shore, and 80 yards north-northwest of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of ell of house, ¾ mile, 146° 06′; near peak of Fisherman's Inn, 2⅛ miles, 187° 01′; chimney of house, 1½ miles, 214° 53′; chimney of house in trees, 1¼ miles, 233° 09′; chimney of house, 2¼ miles, 281° 49′; chimney of old wharf house, 4 miles, 315° 46′; left tangent of Parsons Island, 1⅞ miles, 346° 41′.

Kirwan (Queen Annes County, C. C. Yates, 1909).—On the western shore of Prospect Bay, about 1¼ miles south of Kent Narrows railroad bridge and ¼ mile southeast of entrance to Kirwans Creek, on a marsh point, about 1 foot above high water, 16 yards southeast of shore, 25 yards northwest of shore, 27 yards west of extreme end of point, and 30 yards south-southeast of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right peak of new barn, ⅝ mile, 36° 03′; large chimney near end of old house, 1 mile, 92° 24′; chimney of house, 1 mile, 137° 32′; near peak of Fisherman's Inn, 1⅛ miles, 198° 32′; chimney of house, 1½ miles, 235° 26′; chimney of house, 1½ miles, 242° 09′; right chimney of house, 1¾ miles, 253° 24′; near peak of old house among trees, 1 mile, 279° 31′.

Marshy (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of Prospect Bay, about 1 mile south-southeast of Kent Narrows railroad bridge and ⅛ mile south of entrance to Marshy Creek, in marshland, about 1 foot above high water, 25 yards east of shore, 50 yards southeast of shore, 40 yards northeast of extreme end of point, and 4 yards north of a line of four small trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Dormer window, 2½ miles, 23° 56′; cupola of barn, 1⅝ miles, 43° 55′; right peak of barn, 1¼ miles, 59° 44′; cupola of barn, 1⅝ miles, 71° 28′; chimney on west peak of house, 1¼ miles, 121° 50′; south peak of Fisherman's Inn, 1 mile 157° 36′; nail in blaze in 7-inch locust tree, 32.79 meters (107.6 feet), 173° 17′; chimney at east peak of house near railroad track, ⅞ mile, 226° 46′; right chimney of house, 1 mile, 248° 53′; east peak of house among trees, ¾ mile, 314° 20′.

Railroad (Queen Annes County, C. C. Yates, 1909).—On the southern side of Chester River, on eastern shore of Kent Narrows, about ⅜ mile east-southeast of Narrows railway station and ⅛ mile south of railroad, on cultivated land, about 8 feet above high water, 35 yards south by west of telephone line on north side of county road, 75 yards east of a shanty, and 80 yards northeast of shore of small cove. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Cupola on barn, 2¼ miles, 26° 58′; chimney on ell of large house, 2¾ miles, 35° 26′; right tangent of shanty, 75 yards, 93° 54′; south peak of Fisherman's Inn, ⅜ mile, 115° 23′; nail in blaze in 8-inch tree, 38.07 meters (124.9 feet) 137° 06′; nail in blaze in 14-inch cherry tree, 27.09 meters (88.9 feet), 160° 42′; nail in blaze in telephone pole No. 2848, 30.33 meters (99.5 feet), 194° 37′; smoke pipe of shanty, 100 yards, 207° 12′; near peak of ell-shaped house, 1¾ miles, 266° 22′; near peak of house, 1¾ miles, 289° 41′; left peak of barn, 1½ miles, 342° 59′; house in trees, 1⅝ miles, 351° 32′.

Bridge (Queen Annes County, C. C. Yates, 1909).—On the southern side of Chester River, on western shore of Kent Narrows and about ⅛ mile west of Narrows railway station. Station is a small staff nailed on a telegraph pole at a point 25 feet above high water, 4 yards south of near rail of railroad, 8 yards west of end of railroad bridge, and 7 yards from tie line of bridge.

Thin (Queen Annes County, C. C. Yates, 1909).—On the southern shore of Chester River, on the western side of entrance to Kent Narrows, about ¾

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mile north of Narrows railway station, on a marsh point, about 1 foot above high water, 55 yards north of shore, and 55 yards west of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Large, low telegraph pole, ¾ mile, 11° 22′; smoke pipe on slant-roofed shanty, ⅝ mile, 19° 53′, near corner of fishing shanty, ¼ mile, 108° 16′; tangent of Long Point, ¾ mile, 268° 36′; smoke pipe on shanty, 1 mile, 347° 08′.

WYE RIVER

Frank (Talbot County, C. C. Yates, 1909).—On the eastern shore of Miles River, about ½ mile south of entrance to Wye River and 1 mile northeast of Herring Island, in a cultivated field, about 18 feet above high water, 8 yards east of a bluff washed by high water, and 125 yards south of a ditch. Station mark is center of 2-inch tile pipe projecting 2 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 25.51 meters (83.7 feet), from station in azimuth 272° 13′. Distances and azimuths to various points of reference are as follows: East gable of barn, 3 miles, 46° 38′; south chimney of house on Tilghmans Point farm, 3½ miles, 104° 29′; right tangent of Tilghmans Point, 3¼ miles, 116° 27′; south gable of small house, 1¼ miles, 172° 27′; cupola on barn, ⅝ mile, 276° 11′; east chimney of house, 1⅛ miles, 322° 58′.

James (Talbot County, C. C. Yates, 1909).—On the eastern shore of Miles River, at southern side of entrance to Wye River, about ⅝ mile southwest of Bruffs Island and ⅝ mile southeast of Bennett Point, in a cultivated field, about 20 feet above high water, 17 yards east of edge of bluff at shore, and 14 yards south of edge of bluff 18 feet high with uniform slope to shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: South chimney of house, 4 miles, 66° 34′; south chimney of house on Tilghmans Point farm, 3½ miles, 100° 32′; chimney of small cabin, 1⅜ miles, 177° 21′; west gable of barn, 2¾ miles, 193° 40′; cupola of barn, ⅝ mile, 300° 44′.

Hough (Queen Annes County, C. C. Yates, 1909).—On the northwestern side of entrance to Wye River, on point about ⅜ mile northeast of Miles River and ½ mile southwest of north end of Bruffs Island, on a grass point, about 1 foot above high water, 16 yards north of shore, 22 yards south of shore, 15 yards west of extreme end of point, 11 yards east of small pool in marsh, and 200 yards east of woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 13. Distances and azimuths to various points of reference are as follows: Windmill, 4¼ miles, 11° 17′; tall, slender tree in woods, 200 yards, 101° 26′; black walnut tree, 200 yards, 168° 53′; near peak of building, 2⅜ miles, 196° 51′; right side of chimney of house, 2⅞ miles, 206° 49′; near peak of long barn, 1¼ miles, 218° 12′; piazza post of house in woods, ½ mile, 251° 43′; windmill, ¾ mile, 317° 53′.

Law (Talbot County, C. C. Yates, 1909).—On the southeastern shore of Wye River, about ¾ mile east of Bennett Point and ⅛ mile southwest of south end of Bruffs Island, in cultivated land, about 15 feet above high water, 8 yards southeast of edge of bluff, 45 yards southwest of wire fence, 100 yards northeast of clump of trees, and 150 yards northwest of black walnut tree at edge of field. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Large cedar tree, 100 yards, 15° 04′; chimney of house on Tilghmans Point farm, 3¾ miles, 94° 29′; cupola of right barn, 3¾ miles, 95° 32′; near peak of large barn, 1¼ miles, 165° 22′; right corner of building in woods, ⅜ mile, 206° 12′; nail in blaze in 4-inch cedar tree 38.67 meters (126.9 feet), 219° 03′; left peak of house, 2 miles, 235° 51′; nail in blaze in 7-inch black walnut tree, 45.23 meters (148.4 feet), 243° 11′; nail in blaze in 4-inch cedar tree 59.96 meters (196.7 feet), 261° 28′; 18-inch black walnut tree, 150 yards, 320° 55′; right corner of barn, ¼ mile, 334° 34′.

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Bruffs (Talbot County, C. C. Yates, 1909).—On the eastern shore of Wye River, on northwest point of Bruffs Island, about ⅞ mile northeast of Bennett Point and ½ mile southwest of Bordley Point, on a marsh point, about 1 foot above high water, 10 yards east of shore, 14 yards southwest of shore, 20 yards southeast of point of marsh, and 18 yards west of point of woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 7 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Cupola of barn, 4⅛ miles, 40° 22′; near peak of large barn, 3¾ miles, 56° 37′; large walnut tree, ½ mile, 121° 02′; peak between two chimneys of house, ⅞ mile, 158° 22′; near corner of house, 2⅛ miles, 186° 36′; right peak of house, ⅞ mile, 210° 31′; nail in blaze in 4-inch tree, 17.38 meters (57.0 feet), 259° 27′; nail in blaze in 3-inch walnut tree, 27.96 meters (91.7 feet), 280° 51′; nail in blaze in 4-inch cedar tree, 41.27 meters (135.4 feet), 312° 56′; smoke pipe of building in woods, 200 yards, 316° 35′.

Won (Queen Annes County, C. C. Yates, 1909).—On the western shore of the branch of Wye River which bounds Wye Island on the west, about ½ mile northwest of the northern end of Bruffs Island and ¾ mile northeast of the southern end of Bennett Point, on a small marsh point, about 1 foot above high water, 4 yards northwest of shore, 4 yards west of shore, 4 yards north of shore, and 40 yards southeast of large, lone black walnut tree. Station mark is nail in center of 2-inch stub projecting 5 inches above 2-inch tile pipe with top flush with surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 22.80 meters (74.8 feet) from station in azimuth 15° 31′. Other distances and azimuths are as follows: Near peak of fisherman's shanty, 100 yards, 9° 08′; nail in blaze in 2-inch cedar tree, 12.54 meters (41.1 feet), 58° 28′; nail in blaze in 3-inch walnut tree, 10.81 meters (35.5 feet), 110° 35′; nail in blaze in 30-inch walnut tree, 38.12 meters (125.1 feet), 138° 11′; right corner of right chimney of house, ½ mile, 185° 24′; near peak of large barn, ⅞ mile, 231° 25′; side peak of roof of house, ⅞ mile, 233° 23′; near peak of house, 1⅞ miles, 255° 31′; left large chimney of house in woods, ½ mile, 289° 13′; right corner of building on Bruffs Island, ½ mile, 306° 46′; windmill, 1¼ miles, 334° 58′.

Nose (Queen Annes County, C. C. Yates, 1909).—On the western shore of the branch of Wye River bounding Wye Island on the west, about ⅝ mile north-northwest of Bruffs Island, on a marsh point, about 1 foot above high water, 4 yards southwest of shore, 6 yards north of shore, 14 yards west-northwest of extreme end of point, and 34 yards east of row of locust trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 8-inch locust tree, 34.45 meters (113.0 feet), 70° 08′; nail in blaze in 9-inch locust tree, 28.31 meters (92.9 feet), 88° 41′; near peak of large house, between two chimneys, ¼ mile, 98° 18′; nail in blaze in 7-inch locust tree, 31.44 meters (103.1 feet), 113° 00′; tangent of point, 100 yards, 148° 25′; church cross, 2 miles, 194° 04′; chimney of cottage 1⅜ miles, 195° 12′; near peak of house, ⅝ mile, 229° 31′; left peak of house, ½ mile, 259° 34′; right corner of house on Bruffs Island, ¾ mile, 345° 04′.

South (Queen Annes County, C. C. Yates, 1909).—On the southwestern end of Wye Island, on Bordley Point, on the northern shore of the junction of the two branches of the Wye River bounding Wye Island, about ⅝ mile north-northeast of Bruffs Island. Station is in a pasture, on a rounded point, about 10 feet above high water, 11 yards northeast of edge of field, 13 yards north of edge of field, 22 yards northwest of edge of field, 30 yards southeast of cut in cliff, and 50 yards southwest of point of water bushes at gully. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17, buried with top 2 inches below base of monument. Distances and azimuths to various points of reference are as follows: Spindle on barn cupola, 1¼ miles, 10° 12′; left chimney of house in woods, ½ mile, 29° 12′; peak between two chimneys of house, ¾ mile, 119° 54′; left chimney of house, ⅜ mile, 193° 04′; near peak of house, 2 miles, 218° 48′; right chimney of house, 1¼ miles, 254° 57′; windmill, 1¼ miles, 300° 01′.

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Snout (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on eastern shore of the branch of Wye River bounding Wye Island on the west, about ¾ mile north of Bruffs Island and ½ mile north of Bordley Point, in cultivated land, about 12 feet above high water, 30 yards east by south of edge of bank, 65 yards south of large cherry tree in side of bank at fence, 65 yards southwest of rail fence, 70 yards northeast of a small clump of trees at edge of bank, and 400 yards west by north of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 10-inch locust tree, 64.78 meters (212.5 feet), 28° 47′; peak of house between two chimneys, ½ mile, 78° 28′; near peak of small house, ½ mile, 91° 11′; nail in blaze in 8-inch tree, 34.39 meters (112.8 feet), 159° 08′; near peak of barn, 1¼ miles, 166° 00′; left corner of house, 1⅜ miles, 183° 02′; nail in blaze in fence post, 63.29 meters (207.6 feet), 226° 16′; near peak of house, ¾ mile, 228° 26′; left peak of house, ¼ mile, 276° 08′; left peak of boathouse, ⅞ mile, 358° 36′.

Stop (Queen Annes County, C. C. Yates, 1909).—On the western shore of the branch of Wye River bounding Wye Island on the west, on a point about 1 mile north of Bruffs Island, in edge of pasture land, about 3 feet above high water, 20 yards west of shore, 40 yards north by east of shore, and 50 yards south by west of shore. Station mark is center of standard concrete monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Peak between two chimneys of house, ⅝ mile, 38° 21′; left corner of corn house, ½ mile, 51° 42′; near peak of barn, ¾ mile, 162° 14′; nail in blaze in 5-inch hackberry tree, 7.57 meters (24.84 feet), 205° 36′; side peak of house, ¾ mile, 252° 45′; near peak of house, ½ mile, 306° 01′; nail in blaze in branch of mulberry tree (5 inches diameter), 20.61 meters (67.6 feet), 357° 04′.

Leaven (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the eastern shore of the branch of Wye River bounding Wye Island on the west, about 1⅛ miles north-northeast of Bruffs Island and ⅝ mile south of Cedar Point, in the northwest corner of a cultivated field, about 10 feet above high water, 4 yards southeast of edge of bank, 5 yards southwest of scant locust woods, and 8 yards east-northeast of point of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Large oak tree, 1⅛ miles, 37° 14′; peak between two chimneys of large house, ¾ mile, 56° 59′; left corner of large chimney outside near end of house, ⅞ mile, 141° 30′; chimney outside of house, ⅝ mile, 180° 47′; nail in blaze in 12-inch locust tree, 5.63 meters (18.47 feet), 194° 56′; nail in blaze in 10-inch locust tree, 15.03 meters (49.3 feet), 241° 11′; nail in blaze in 16-inch locust tree, 12.01 meters (39.4 feet), 268° 30′; near peak of house, ⅜ mile, 342° 28′.

Orb (Queen Annes County, C. C. Yates, 1909).—On the western shore of the branch of Wye River bounding Wye Island on the west, about 1⅜ miles north of Bruffs Island and ⅝ mile southwest of Cedar Point, on a marsh point, about 1 foot above high water, 6 yards southwest of shore, 7 yards northwest of shore, 6 yards north of shore, and southeast of a point of land 5 feet higher than the station. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 3-inch locust tree, 18.39 meters (60.3 feet) 77° 24′; nail in blaze in 42-inch oak tree, 23.34 meters (76.6 feet), 133° 34′; nail in blaze in 6-inch gum tree, 20.17 meters (66.2 feet), 148° 57′; right corner of brick house, ½ mile, 166° 55′; chimney of house on Drum Point, ¾ mile, 208° 17′; left peak of house, 1⅜ miles, 224° 38′; left peak of house, ¾ mile, 273° 57′; right peak of large barn, ¾ mile, 283° 56′; near peak of house, ¾ mile, 316° 43′; near peak of large barn, ¾ mile, 323° 42′.

Star (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the eastern shore of the branch of Wye River bounding Wye Island on the west, about 1½ miles north of Bruffs Island and ¼ mile south-southwest of Cedar Point, on a soft marsh point, about 1 foot above high water, 8 yards north of shore, 9 yards south of shore, and 13 yards east of extreme end of point. Station

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mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Peak between two chimneys of large house, 1 mile, 31° 35′; left corner of chimney outside brick house, ½ mile, 120° 05′; left corner of large barn, ½ mile, 121° 30′; chimney in middle of large brick house, ¾ mile, 182° 33′; nail in blaze in 4-inch locust tree, 19.78 meters (64.9 feet), 200° 00′; nail in blaze in 3-inch gum tree, 18.75 meters (61.5 feet), 217° 32′; nail in blaze in 8-inch locust tree, 22.21 meters (72.9 feet), 233° 50′; near peak of hip roof of large barn, ¾ mile, 350° 07′.

Piney (Queen Annes County, C. C. Yates, 1909).—On the western shore of the branch of Wye River bounding Wye Island on the west, about ⅜ mile southwest of Drum Point and 1¾ miles north of Bruffs Island, in a cultivated field, about 6 feet above high water, 15 yards northwest of a point, 8 yards north of top of bank, 9 yards west of trees at top of bank, and 55 yards northeast of another point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near corner of brick house, ⅛ mile, 88° 40′; nail in blaze in 7-inch locust tree, 18.07 meters (59.3 feet), 196° 02′; nail in blaze in 4-inch locust tree, 8.85 meters (29.04 feet), 240° 40′; near peak of house, 1⅛ miles, 241° 27′; near peak of house, ⅜ mile, 272° 51′; nail in blaze in 5-inch hackberry tree, 10.66 meters (35.0 feet), 288° 20′; near peak of house, 1⅛ miles, 334° 39′; near peak of hip-roof barn, 1⅛ miles, 339° 41′; left peak of boathouse, 2½ miles, 353° 01′.

Twixt (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the eastern shore of the branch of Wye River bounding Wye Island on the west, about ⅛ mile southwest of Cedar Point, on a small marsh island, about 1 foot above high water, 3 yards north of shore, 4 yards east of shore, 7 yards south of shore, 9 yards west of point of shore, and 20 yards west of mainland. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Peak between two chimneys of house, 1⅛ miles, 29° 03′; left corner of brick house, ½ mile, 104° 14′; chimney in middle of large brick house, ½ mile, 181° 02′; left corner of barn, ⅛ mile, 236° 48′.

Darce (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the eastern shore of the branch of Wye River bounding Wye Island on the west, on Cedar Point, at ferry landing, about ¼ mile south of Drum Point. Station is in cultivated land, about 10 feet above high water, 8 yards south of point of bank, 23 yards northwest of a house, and 55 yards east-northeast of a ferry landing at foot of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Peak between two chimneys of house, 1¼ miles, 30° 16′; near corner of brick house, ⅝ mile, 90° 42′; left corner of brick house, ½ mile, 170° 45′; near peak of house, 1¼ miles, 173° 49′; cross on church, ¾ mile, 183° 45′; left corner of house ¾ mile, 227° 06′; near peak of house, 1½ miles, 255° 32′; left corner of shed, 27.25 meters (89.4 feet), 295° 36′; right corner of house, 21.98 meters (72.1 feet), 320° 41′.

Ferry (Queen Annes County, C. C. Yates, 1909).—On the western shore of the branch of Wye River bounding Wye Island on the west, on Drum Point, about ⅜ mile west of Cedar Point, in a pasture with paling fence on northwest and west-southwest sides, about 4 feet above high water, 6 yards northwest of shore, 10 yards west of shore, 20 yards northeast by east of fence at county road, and 40 yards southeast of fence near small house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 8 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths of various points of reference are as follows: Peak between two chimneys of house, 1½ miles, 24° 43′; nail in blaze in 5-inch locust tree, 26.92 meters (88.3 feet), 58° 00′; nail in blaze in 7-inch hackberry tree, 35.04 meters (115.0 feet), 89° 29′; nail in blaze in 9-inch hackberry tree, 34.93 meters (114.6 feet), 128° 51′; left corner of large brick house, ¼ mile, 167° 58′; near peak of house, ⅝ mile, 244° 09′; near peak of house, 1¼ miles, 251° 50′; near peak of house, 1⅝

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miles, 266° 07′; cupola of building, 1 mile, 307° 39′; near peak of house, ⅜ mile, 352° 11′.

Wide (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the eastern shore of the branch of Wye River bounding Wye Island on the west, on a point at western side of entrance to a small cove about ¾ mile east of Cedar Point, in marshland surrounded by water bushes, about 1 foot above high water, 12 yards south of shore, 16 yards southeast of shore, 20 yards east of shore, 20 yards northeast of trees, 11 yards northeast of a wire fence, 100 yards west of entrance to creek, and near point of higher land and trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 6-inch oak tree, 18.48 meters (60.6 feet), 37° 24′; nail in blaze in 5-inch oak tree, 18.14 meters (59.5 feet), 62° 34′; right corner of house, ¾ mile, 81° 12′; near corner of brick house, 1¼ miles, 85° 35′; left corner of brick house, 1 mile, 116° 40′; left corner of house, ½ mile, 159° 17′; peak of near gable of house, ¾ mile, 215° 58′; near peak of house, ⅝ mile, 247° 04′; nail in blaze in fence post, 13.21 meters (43.3 feet), 357° 33′.

Owe (Queen Annes County, C. C. Yates, 1909).—On the western shore of the branch of Wye River bounding Wye Island on the west, about ¾ mile east-northeast of Drum Point and 1 mile south-southwest of entrance to Wye Narrows, on a grassy point, about 2 feet above high water, 9 yards north of shore, 11 yards west-southwest of shore, 10 yards west of extreme end of point, and 75 yards east-southeast of a house 12 feet above high water. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left peak of house, 1⅛ miles, 17° 02′; near corner of chimney outside left end of house, ⅞ mile, 49° 03′; left tangent of large brick house, 1¼ miles, 66° 08′; nail in blaze in 5-foot black walnut tree, 31.44 meters (103.1 feet), 99° 26′; nail in blaze in 42-inch black walnut tree, 31.63 meters (103.8 feet), 144° 22′; peak of near gable of house, 2½ miles, 196° 01′; near corner of house, ⅝ mile, 262° 07′; right peak of small house, ¾ mile, 316° 37′; Baldwin windmill, 1⅝ miles, 339° 30′.

Twist (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the eastern shore of the branch of Wye River bounding Wye Island on the west, at northern side of entrance to a small cove about 1 mile east of Cedar Point. Station is on a marsh point, about 1 foot above high water, 11 yards southeast of point, 8 yards south of shore at point of higher and solid land with trees, 8 yards west of trees, 18 yards west-southwest of point, and 33 yards north of shore of cove. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 7 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney outside southeast end of house, 1 mile, 76° 57′; near corner of brick house, 1½ miles, 82° 23′; left corner of brick house, 1⅛ miles, 106° 57′; left corner of house, ½ mile, 131° 54′; near peak of barn, 2 miles, 176° 53′; nail in blaze in 14-inch oak tree, 7.55 meters (24.77 feet), 215° 12′; nail in blaze in 16-inch oak tree, 7.90 meters (25.92 feet), 238° 30′; nail in blaze in 4-inch hackberry tree, 8.85 meters (29.04 feet), 266° 44′; gum tree, 52 yards, 295° 38′; right peak of corn house, ¼ mile, 318° 49′.

Aller (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the eastern shore of the branch of Wye River bounding Wye Island on the west about 1 mile east-northeast of Drum Point, and at northern side of entrance to a cove, on marsh land, between two large pine trees, about 1 foot above high water, 17 yards northeast of a small point, 15 yards southeast of a short cut inshore, and 9 yards southwest of cultivated land. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Cupola of building, 1 mile, 12° 29′; left peak of house, 1⅜ miles, 29° 27′; peak between two chimneys of large house, 2¼ miles, 42° 43′; chimney outside left end of house, 1⅛ miles, 55° 43′; right corner of house, ⅜ mile, 76° 45′; nail in blaze in 20-inch pine tree, 20.90 meters (68.6 feet), 141° 30′; peak of side gable of house, ¼ mile, 255° 27′; near corner of house, ⅝ mile,

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279° 38′; nail in blaze in 18-inch pine tree, 28.52 meters (93.6 feet), 280° 11′; left tangent of large square chimney of house, ⅜ mile, 313° 27′.

Chin (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on eastern shore of the branch of Wye River bounding Wye Island on the west, about 1 mile northeast of Cedar Point and ¾ mile south-southwest of entrance to Wye Narrows, on a marsh point, about 1 foot above high water, 6 yards northeast of shore, 20 and 40 yards south of shore, and 7 yards east of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of large barn, 1⅛ miles, 3° 44′; peak between chimneys of house, 1¼ miles, 38° 20′; near peak of Bryan house, ¼ mile, 47° 52′; right corner of house in woods, ⅞ mile, 178° 01′; nail in blaze in 10-inch pine tree, 16.78 meters (55.1 feet), 196° 02′; nail in blaze in 5-inch pine tree, 19.51 meters (64.0 feet), 209° 11′; nail in blaze in 6-inch pine tree, 11.68 meters (38.3 feet), 276° 40′.

Hook (Queen Annes County, C. C. Yates, 1909).—On the western shore of the branch of Wye River bounding Wye Island on the west, about ¾ mile southwest of the entrance to Wye Narrows, and ¼ mile south of entrance to a cove, in cultivated land, about 10 feet above high water, 3 yards west of top of bank, 4 yards northeast of top of bank lined with cedars, 7 yards north-northwest of extreme end of point of bank at left of cedars, and north of a long, low peninsula that separates a small pond from river. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 4-inch cedar tree, 6.99 meters (22.93 feet), 10° 28′; nail in blaze in 3-inch cedar tree, 4.94 meters (16.21 feet), 66° 41′; nail in blaze in 8-inch oak tree, 11.41 meters (37.4 feet), 106° 10′; near peak of large barn, 2¼ miles, 200° 05′; spindle on cupola of barn, 1⅛ miles, 228° 18′; left corner of large chimney of small house, ⅞ mile, 304° 56′; left peak of house, ⅞ mile, 324° 42′; near peak of large barn, 1⅛ miles, 351° 36′; near peak of large barn, ⅞ mile, 358° 07′.

Knee (Queen Annes County, C. C. Yates, 1909).—On the western shore of the branch of Wye River bounding Wye Island on the west, about ½ mile west-southwest of entrance to Wye Narrows, on a narrow strip of lowland, about 1 foot above high water, 4 yards west of shore, 12 yards east of cut in bank, and 40 yards south of bank 8 feet high with a few trees on it. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Large chimney of large house, 1 mile, 00° 18′; lightning rod on Bryan house, ¾ mile, 9° 34′; nail in blaze in 12-inch oak tree, 14.60 meters (47.9 feet), 44° 41′; nail in blaze in 7-inch locust tree, 4.86 meters (15.94 feet), 88° 23′; nail in blaze in twisted cedar bush, 8.79 meters (28.84 feet), 169° 11′; chimney of house, 1⅞ miles, 199° 46′; large pine tree on point, ½ mile, 266° 21′; smoke pipe on small building, ½ mile, 324° 34′; Baldwin windmill, 2¼ miles, 347° 43′; peak of near gable of Baldwin house, 2¼ miles, 348° 04′.

June (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on eastern shore of the branch of Wye River bounding Wye Island on the west, on point at northern side of entrance to a cove about ¼ mile southwest of entrance to Wye Narrows, on a marsh point about 1 foot above high water, 10 yards south-southeast of shore, 20 yards southwest of lines of trees and marsh, and 50 yards north of twin oak trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of Bryan house, ⅝ mile, 35° 02′; right corner of large house, 1 mile, 61° 22′; left corner of near chimney of house, ¾ mile, 103° 57′; near corner of house, 1⅛ miles, 174° 56′; spindle on cupola of barn, 1¾ miles, 178° 20′; nail in blaze in one of twin oak trees (30 inches diameter), 19.32 meters (63.4 feet), 225° 55′; nail in blaze of one of twin oak trees (30 inches diameter), 43.17 meters (141.6 feet), 310° 10′; nail in blaze in 15-inch oak tree, 44.45 meters (145.8 feet), 349° 12′.

Close (Queen Annes County, C. C. Yates, 1909).—On the northern shore of Wye Island, at southern side of entrance to Wye Narrows, in edge of cultivated land, about 12 feet above high water, 3 yards south of edge of bank, 5

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yards west-southwest of top of bank, 18 yards west of lone pine tree, and 17 yards east of cut in bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right peak of corn house, ½ mile, 3° 18′. Nail in blaze in 36-inch walnut tree, 56.49 meters (185.3 feet), 57° 09′; right corner of large brick house, 1¼ miles, 60° 24′; near peak of house, ⅝ mile, 87° 08′; windmill, ⅝ mile, 91° 00′; spindle on barn cupola, 1⅛ miles, 158° 42′; left corner of house, ¾ mile, 216° 45′; nail in blaze in 24-inch pine tree, 18.28 meters (60.0 feet), 260° 09′; nail in blaze in 10-inch black walnut tree, 27.00 meters (88.6 feet), 282° 41′; left peak of large building, ¾ mile, 302° 56′.

Bee (Queen Annes County, C. C. Yates, 1909).—On the northern shore of Wye Narrows, at northern side of western entrance to Wye Narrows, in woods, about 4 feet above high water, 7 yards east of edge of bank, 11 yards northwest of edge of bank, and 13 yards north of point of bank near marsh. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right corner of Bryan house, 1⅛ miles, 32° 59′; near peak of house, ⅞ mile, 70° 45′; nail in blaze in 4-inch oak tree, 2.10 meters (6.89 feet), 204° 43′; nail in blaze in 24-inch oak tree, 8.64 meters (28.35 feet), 316° 49′; nail in blaze in 8-inch oak tree, 1.86 meters (6.10 feet), 348° 35′.

No (Queen Annes County, C. C. Yates, 1909).—On the western shore of the continuation of Wye River bounding Wye Island on the west, about ⅜ mile west-northwest of entrance to Wye Narrows, on point at southern side of entrance to a small cove, about 1 foot above high water, 4 yards southwest of shore, 4 yards north of shore, 5 yards west of extreme end of point, and east of trees on bank 5 feet high. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Cupola of barn, 2 miles, 3° 05′; right corner of Bryan house, 1⅛ miles, 13° 12′; nail in blaze in 4-inch locust tree, 26.17 meters (85.9 feet), 44° 41′; nail in blaze in 4-inch oak tree, 5.42 meters (17.78 feet), 118° 47′; nail in blaze in 8-inch oak tree, 4.73 meters (15.52 feet), 174° 44′; spindle on barn cupola, ¾ mile, 179° 27′; left corner of large house, ⅝ mile, 184° 36′; left peak of house, 1⅜ miles, 199° 55′; near peak of house, ⅞ mile, 304° 35′; near end of corn house, 1 mile, 338° 37′.

Oysters (Queen Annes County, C. C. Yates, 1909).—On the eastern shore of the continuation of the branch of Wye River bounding Wye Island on the west, about ¼ mile north of entrance to Wye Narrows in a clump of trees, on point at south side of entrance to a small cove, about 3 feet above high water, 6 yards south-southeast of edge of bank, 7 yards west of point of bank, and 8 yards east-northeast of edge of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right corner of Bryan house, 1¼ miles, 21° 25′; chimney of cabin, ½ mile, 117° 46′; nail in blaze in 6-inch oak tree, 3.97 meters (13.02 feet), 124° 54′; chimney of large house, 1⅛ miles, 163° 20′; nail in blaze in 8-inch oak tree, 4.71 meters (15.45 feet), 298° 02′; nail in blaze in 7-inch walnut tree, 11.31 meters (37.1 feet), 342° 56′.

Shaw (Talbot County, C. C. Yates, 1909).—On the southern shore of the entrance to the branch of Wye River bounding Wye Island on the south, on the northern end of Bruffs Island, about ⅜ mile southwest of Bordley Point. Station is in walnut, pine, and cedar woods, about 15 feet above high water, 7 yards southwest of edge of bank, and 100 yards north-northwest of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 24-inch walnut tree 24.30 meters (79.7 feet), 18° 52′; nail in blaze in 15-inch walnut tree 15.98 meters (52.4 feet), 42° 05′; peak of house between two chimneys, ⅞ mile, 150° 13′; chimney on right end of house, 1¾ miles, 188° 01′; near peak of large barn, 1½ miles, 199° 11′; near peak of house, 1⅝ miles, 247° 19′; chimney of house, 1¼ miles, 284° 25′; right corner of left piazza post, 100 yards, 344° 21′; nail in blaze in 28-inch walnut tree, 29.32 meters (96.2 feet), 345° 17′.

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Colonel (Talbot County, C. C. Yates, 1909).—On the southern shore of Shaw Bay, on point at entrance to a small cove, about ½ mile from branch of Wye River bounding Wye Island on the south and ⅝ mile east of Bruffs Island, in a field about 10 feet above high water, 6 yards southeast of edge of bank which is washing away, 9 yards south-southwest of point of bank, and 3 yards west of top of bank lined with cedar, walnut, and oak trees. Station mark is nail in center of 2-inch stub projecting 4 inches above a 2-inch tile pipe with top flush with ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 18.69 meters (61.3 feet) from station in azimuth 335° 54′. Other distances and azimuths are as follows: Near corner of house on Bruffs Island, ¾ mile, 106° 55′; peak of roof between two chimneys of house, 1⅝ miles, 131° 17′; near peak of house, 1⅛ miles, 160° 09′; peak of near gable of house, 1¼ miles, 212° 45′; nail in blaze in 20-inch oak tree, 5.21 meters (17.09 feet), 222° 35′; nail in blaze in 6-inch oak tree, 6.46 meters (21.19 feet), 295° 22′; nail in blaze in 7-inch oak tree, 13.45 meters (44.1 feet), 324° 50′.

Edward (Talbot County, C. C. Yates, 1909).—On the southern shore of the branch of Wye River bounding Wye Island on the south, on a point at eastern side of entrance to Shaw Bay, about ¾ mile east-northeast of north end of Bruffs Island, and ⅜ mile west of entrance to Lloyd Creek, in cultivated land, about 8 feet above high water, 8 yards southeast of edge of bluff which is washing away, and 30 yards southwest of a line of large trees at edge of bank and field. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Windmill, 1¼ miles, 33° 38′; front peak of boathouse, ¾ miles, 64° 12′; peak between two chimneys of house, 1⅜ miles, 114° 20′; near peak of house, ⅞ mile, 146° 22′; chimney of house, 1¼ miles, 170° 16′; nail in blaze in 13-inch walnut tree, 26.40 meters (86.6 feet), 202° 07′; nail in blaze in 4-inch locust tree, 26.95 meters (88.4 feet), 216° 19′; nail in blaze of 10-inch locust tree, 31.55 meters (103.5 feet), 236° 06′; windmill, ⅞ mile, 309° 51′.

Flat (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the northern shore of the branch of Wye River bounding Wye Island on the south, on a marsh point, about 1 mile northeast of Bruffs Island and ½ mile northeast of Bordley Point. Station is about 1 foot above high water, 8 yards north of shore, 8 yards southwest of shore, 12 yards west of extreme end of point, 17 yards east of the south end of line of several trees on edge of bank 3 feet high, and 45 yards east of a black gum tree 5 feet in diameter at ground. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Spindle on barn cupola, 1⅝ miles, 24° 05′; front peak of boathouse, 1 mile, 38° 33′; left tangent of black gum tree, 44 yards, 62° 38′; near peak of house, ¾ mile, 154° 05′; spindle on cupola, ¾ mile, 255° 42′; windmill, ¾ mile, 256° 46′; near peak of Baldwin house, ¾ mile, 259° 21′; left corner of tower of house, 1¼ miles, 295° 04′; windmill, 1⅛ miles, 327° 27′.

Albert (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the northwestern shore of the branch of Wye River bounding Wye Island on the south, on a point about 1¼ miles east-northeast of north end of Bruffs Island, and opposite entrance to Lloyd Creek. Station is on a marsh point, about 1 foot above high water, 17 yards northwest of shore, 28 yards east of shore, 35 yards south of shore, and 75 yards north-northeast of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Front peak of boathouse, 1¼ miles, 52° 14′; peak between two chimneys of house, 1¾ miles, 90° 44′; left peak of house, ⅞ mile, 95° 49′; peak of house, ¾ mile, 168° 51′; Baldwin windmill, ⅜ mile, 246° 15′; flagstaff on Baldwin boathouse, 400 yards, 249° 03′; windmill on wooden tower, 1 mile, 306° 20′; peak of house with several chimneys, 1 mile, 308° 12′; chimney outside near end of old house, 1 mile, 351° 09′.

Lloyd (Talbot County, C. C. Yates, 1909).—On the southern shore of the branch of Wye River bounding Wye Island on the south, at western side of entrance to Lloyd Creek, in cultivated land, about 12 feet above high water, 70 yards southwest of edge of bank, 65 yards south of edge of bank, 65 yards

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north-northeast of point of woods and bottom land, and 120 yards northwest of an oak tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of house, 1 mile, 128° 41′; left peak of barn, 1⅛ miles, 148° 16′; near peak of house, ⅞ mile, 172° 12′; peak of near gable of Baldwin house, ¾ mile, 205° 26′; near peak of barn, ⅞ mile, 218° 57′; right peak of large house, 1 mile, 227° 59′; large oak tree, 120 yards, 304° 55′.

Cousin (Talbot County, C. C. Yates, 1909).—On the southeastern shore of the branch of Wye River bounding Wye Island on the south, about 1½ miles east-northeast of north end of Bruffs Island, and at northeastern side of entrance to Lloyd Creek, in a pasture, about 9 feet above high water, 25 yards east of edge of bank, 65 yards south-southeast of a small clump of trees in bottom land, 65 yards north of trees, 60 yards north of edge of a field, and 200 yards south of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left peak of bell cupola, 1 mile, 9° 41′; windmill, 1 mile, 10° 26′; spindle on barn cupola, 2 miles, 44° 12′; front peak of boathouse, 1½ miles, 62° 12′; left peak of house, 1⅛ miles, 99° 20′; chimney of house, ¾ mile, 127° 38′; peak of near gable of Baldwin house, 200 yards, 171° 49′; windmill on large barn, ¼ mile, 223° 15′; right peak of house, 350 yards, 245° 51′.

Baldwins (Talbot County, C. C. Yates, 1909).—On the southeastern shore of the branch of Wye River bounding Wye Island on the south, about ⅜ mile north of entrance to Lloyd Creek, on a short, sharp point of marsh, about 100 yards north of a yacht landing, 7 yards northeast of shore, 10 yards southeast of shore, 12 yards east of extreme end of point, and 8 yards west of foot of bank 8 feet high. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Windmill, 1⅛ miles, 2° 31′; left peak of bell cupola, 1⅛ miles, 2° 42′; spindle on barn cupola, 2 miles, 37° 40′; front peak of boathouse on Bruffs Island, 1½ miles, 52° 38′; near corner of left chimney of house, ¾ mile, 86° 24′; near peak of barn with cupola, ⅝ mile, 150° 07′; near peak of barn, 1 mile, 190° 27′; nail in blaze in 6-inch cedar tree, 7.91 meters (25.95 feet), 223° 47′; nail in blaze in 5-inch locust tree, 5.36 meters (17.58 feet), 286° 34′; nail in blaze in 4-inch locust tree, 13.45 meters (44.1 feet), 298° 52′; flagstaff on yacht-landing house, 100 yards, 346° 14′.

Le Seur (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the northwestern shore of the branch of Wye River bounding Wye Island on the south, about ⅛ mile north of prominent point opposite entrance to Lloyd Creek, in a clump of small trees, about 3 feet above high water, 11 yards east of shore, 12 yards southwest of shore on line to next point, and 12 yards north by east of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 5-inch walnut tree, 7.60 meters (24.93 feet), 52° 27′; nail in blaze in 3-inch walnut tree, 6.74 meters (22.11 feet), 107° 03′; nail in blaze in 3-inch walnut tree, 7.27 meters (23.85 feet), 155° 15′; near peak of large barn, ⅝ mile, 268° 02′; spindle on cupola, ¼ mile, 273° 00′; right corner of chimney on Baldwin house, ¼ mile, 283° 31′; nail in blaze in 4-inch walnut tree, 4.11 meters (13.48 feet), 351° 53′.

Attila (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the northwestern shore of the branch of Wye River bounding Wye Island on the south, about ¾ mile north of entrance to Lloyd Creek, at north side of entrance to a small cove, on slope of a point, about 3 feet above high water, 10 yards west of shore, 10 yards north-northeast of shore, and 11 yards northwest of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 10-inch cedar stump, 8.36 meters (27.43 feet), 32° 25′; nail in blaze in 8-inch cedar tree, 38.64 meters (126.8 feet), 182° 52′; near peak of very large barn, ⅜ mile, 292° 48′; near peak of house, ⅝ mile, 300° 11′; spindle on cupola, ¼ mile, 323° 50′; left corner of Baldwin house, ¼ mile, 328° 06′; flagpole on wharf house, ¼ mile, 342° 01′; windmill, 1¼ mile, 358° 49′.

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Sylvia (Talbot County, C. C. Yates, 1909).—On the southeastern shore of the branch of Wye River bounding Wye Island on the south, on the second prominent point north of entrance to Lloyd Creek, in a cultivated field, about 10 feet above high water, 11 yards east by south of edge of bluff, 22 yards northeast of lone locust tree 2 feet in diameter at edge of bank, and 440 yards northwest of a large barn. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Baldwin windmill, ¼ mile, 1° 50′; peak of near gable of Baldwin house, ¼ mile, 3° 19′; spindle on cupola, ¼ mile, 4° 04′; nail in blaze in 24-inch locust tree, 19.90 meters (65.3 feet), 51° 25′; very large lone tree, 22 yards, 67° 34′; nail in blaze in 6-inch locust tree, 13.37 meters (43.9 feet), 80° 55′; left peak of barn, ⅝ mile, 100° 36′; cupola of building, ⅝ mile, 133° 32′; near peak of large house, 1 mile, 183° 50′; near peak of large barn, ⅝ mile, 300° 34′.

Tobine (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the northeastern shore of the branch of Wye River bounding Wye Island on the south, about ¾ mile north of entrance to Lloyd Creek, on point at north side of entfance to small cove, on point of cultivated field, about 6 feet above high water, 4 yards north of edge of field, 4 yards southwest of edge of field, 5 yards west-northwest of point of field, and ¼ mile east-southeast of barn with cupola. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Windmill, 1½ mile, 1° 14′; near peak of house, 1⅛ miles, 62° 51′; cupola of building, ¼ mile, 118° 29′; right corner of house, ⅝ mile, 189° 58′; near peak of large barn, ½ mile, 316° 58′; cupola of Baldwin barn, ½ mile, 347° 14′; right peak of Baldwin house, ½ mile, 348° 56′.

Gusta (Talbot County, C. C. Yates, 1909).—On the southeastern shore of the branch of Wye River bounding Wye Island on the south, about ⅞ mile north-northeast of entrance to Lloyd Creek, in a cultivated field, about 10 feet above high water, 8 yards east of edge of bank, 12 yards southeast of edge of bank, 17 yards northeast of edge of bank, 35 yards north-northeast of a depression, and 65 yards southwest of end of cut in bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Baldwin windmill, ⅜ mile, 13° 10′, left tangent of house on Bruffs Island, 2 miles, 49° 03′; left chimney of house, 1⅜ miles, 68° 12′; peak between two chimneys of house, 2 miles, 74° 39′; right peak of house, 1 mile, 103° 50′; cupola of barn, ⅝ mile, 111° 43′; left corner of house, ¾ mile, 178° 37′; right peak of large barn, ⅜ mile, 335° 06′.

Nodim (Talbot County, C. C. Yates, 1909).—On the southeastern shore of the branch of Wye River bounding Wye Island on the south, about ⅜ mile southwest of entrance to Dividing Creek, in cultivated land about 4 feet above high water, 4 yards south of shore, 8 yards southeast of shore, 25 yards southwest of shore of marsh, and 13 yards south of corner of marsh. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Baldwin windmill, ⅝ mile, 15° 26′; near peak of house, 1⅜ miles, 63° 12′; left peak of house, 1 mile, 84° 27′; chimney outside left end of house, ⅝ mile, 155° 15′; right corner of house, ¾ mile 174° 03′; right tangent of wharf, ¾ mile, 241° 37′.

Sang (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the northwestern shore of the branch of Wye River bounding Wye Island on the south, about 1¼ miles north of entrance to Lloyd Creek and ⅝ mile west of entrance to Dividing Creek, on a bank about 12 feet above high water, between two cuts in bank, 2 yards west of edge of bank, 3 yards northwest of edge of bank, 4 yards southwest of edge of bank, 32 yards from bottom of northern cut in bank, 52 yards from bottom of southern cut in bank, and 95 yards south-southwest of tree-lined gully. The station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. The subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of ell of house, ⅜ mile, 67° 22′; left corner of house, ¼ mile, 125° 04′; left peak of house, ¼ mile, 150° 01′; tangent of point, ⅜ mile, 285° 00′; right peak of large barn ¾ mile, 328° 33′; Baldwin

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windmill, ¾ mile, 349° 14′; peak of near gable of Baldwin house, ¾ mile, 350° 13′.

Turn (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the northwestern shore of the branch of Wye River bounding Wye Island on the south, about ½ mile west of entrance to Dividing Creek, on point at western side of entrance to small cove. Station is on bank, in cultivated field, about 8 feet above high water, 5 yards northwest of edge of bank, 6 yards north of edge of bank, 7 yards west of edge of bank, 50 yards south-southwest of entrance to small creek, and 55 yards east of dead sycamore tree in field. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Baldwin windmill, ⅞ mile, 1° 00′; near peak of gable of Baldwin house, ⅞ mile, 1° 26′; nail in blaze in 3-inch wild cherry tree, 23.08 meters (75.7 feet), 43° 25′; chimney outside near end of house, ⅝ mile, 94° 49′; nail in blaze in 4-inch locust tree, 18.85 meters (61.8 feet), 170° 55′; nail in blaze in 14-inch chestnut stump with second growth, 12.93 meters (42.4 feet), 194° 58′; near peak of small house, 1⅛ miles, 307° 23′; right peak of large barn, ¾ mile, 342° 12′.

Go (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the northern shore of the branch of Wye River bounding Wye Island on the south, on point between two coves about ¼ mile west of entrance to Dividing Creek, on a grassy beach at high water, about 2 yards south of foot of bank 4 feet high covered with a dense growth of young trees, and 37 yards from entrance to a small creek. Station mark is nail in center of 2-inch pine stub projecting 2 inches above 2-inch tile pipe with top 2 inches below surface of sand. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 19.06 meters (62.5 feet) from the station in azimuth 202° 35′. Other distances and azimuths are as follows: Peak of gable on Baldwin house, ⅞ mile, 13° 36′; Baldwin windmill, ⅞ mile, 13° 37′; near corner of square chimney of house, ¾ mile, 68° 34′; cupola on barn, ¾ mile, 73° 44′; nail in blaze in 4-inch gum tree, 6.68 meters (21.92 feet), 158° 30′; nail in blaze in 2-inch gum tree, 5.73 meters (18.80 feet), 181° 40′; nail in blaze in 4-inch gum tree, 4.15 meters (13.62 feet) 222° 31′; near peak of shanty, ⅞ mile, 317° 40′; chimney of house, ⅞ mile, 321° 10′.

Divide (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the northern shore of the branch of Wye River bounding Wye Island on the south, on point at eastern side of entrance to Dividing Creek, in point of woods, about 4 feet above high water, 2 yards west-northwest of edge of bank, 8 yards east-northeast of edge of bank, and 11 yards north-northeast of point of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 16. Distances and azimuths to various points of reference are as follows: Chimney of house, ⅞ mile, 14° 57′; Baldwin windmill, 1 mile, 35° 22′; right chimney of house, 2 miles, 62° 17′; peak of house between two chimneys, 2⅝ miles, 68° 44′; nail in blaze in 14-inch oak tree, 4.05 meters (13.29 feet), 105° 34′; nail in blaze in 8-inch gnarled oak tree, 9.98 meters (32.74 feet), 153° 29′; nail in blaze in 30-inch oak tree, 8.41 meters (27.59 feet), 189° 43′; right tangent of old wharf, ¼ mile, 245° 48′; near peak of large barn, 1¾ miles, 283° 28′.

Quarter (Talbot County, C. C. Yates, 1909).—On the southern shore of the branch of the Wye River bounding Wye Island on the south, about ⅜ mile south-southeast of entrance to Dividing Creek and at east side of entrance to a cove, on a bank in a cultivated field, about 12 feet above high water, 2 yards southeast of edge of bank, 100 yards south of trees and break in bluff, and 120 yards north of edge of bank at point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right peak of large barn, ¾ mile, 36° 57′; Baldwin windmill, ⅞ mile 49° 36′; near peak of house, 1¼ miles, 86° 59′; near peak of barn 1⅛ miles, 93° 34′; chimney outside near end of house, 1⅞ miles, 102° 50′; near corner of barn, ⅞ mile, 145° 43′; right tangent to old wharf, ⅜ mile 204° 41′.

Deck (Talbot County, C. C. Yates, 1909).—On the southern shore of the branch of Wye River bounding Wye Island on the south, on a point about ½

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mile southeast of entrance to Dividing Creek, at edge of water bushes, on a grass point, about 1 foot above high water, 4 yards south of shore, 10 yards west of a round point, 20 yards east of shore, and 30 yards north of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of house 1¼ miles, 81° 25; tangent of point of land, ¼ mile, 112° 46′; left tangent of old wharf, 400 yards, 188° 00′; south peak of large barn, ¾ mile, 208° 55′; tangent of point of land, 500 yards, 245° 03′; left cedar tree on point, 200 yards, 281° 55′.

Princess (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the northern shore of the branch of the Wye River bounding Wye Island on the south, about ⅛ mile northeast of entrance to Dividing Creek and ⅜ mile west of entrance to Granary Creek. Station is on marsh land, about 1 foot above high water, 4 yards north of shore, 18 yards east by north of large oak tree at shore, 4 yards south of foot of bank 10 feet high covered with vegetation, and 10 yards west by south of a white oak tree on bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right peak of large barn, 1 mile, 27° 17′; Baldwin windmill, 1¼ miles, 37° 56′; cupola of Baldwin stable, 1¼ miles, 38° 35′; nail in blaze in 3-inch white-oak tree, 5.65 meters (18.54 feet) 80° 21′; nail in blaze in 14-inch cedar tree, 3.01 meters (9.88 feet), 172° 31′; right tangent of old wharf, 150 yards, 268° 14′; chimney of house on Pickerings Creek, 1¾ miles, 292° 11′.

Philip (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the northern shore of the branch of Wye River bounding Wye Island on the south, on western side of entrance to Granary Creek and ½ mile east of entrance to Dividing Creek. Station is about 1 foot above high water, 3 yards north of shore, 9 yards south-southwest of shore of creek, 9 yards west of extreme end of point, and 6 yards southeast of point of bank 4 feet high. Station mark is a nail in the center of 2-inch cedar stub projecting 2 inches above 2-inch tile pipe with top flush with surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 4.62 meters (15.16 feet) from station in azimuth 198° 13′. Other distances and azimuths are as follows: Baldwin windmill 1⅜ miles, 49° 45′; near peak of ell of house, 1¼ miles, 77° 50′; nail in blaze in 3-inch cedar tree, 9.33 meters (30.61 feet), 105° 12′; nail in blaze in 6-inch pine tree, 18.09 meters (59.4 feet) 146° 14′; nail in blaze in 7-inch oak tree, 4.41 meters (14.47 feet), 174° 46′; tangent of point, ¼ mile, 257° 21′; near peak of large building, 2 miles, 294° 33′.

Matter (Talbot County, C. C. Yates, 1909).—On the southern shore of the branch of Wye River bounding Wye Island on the south, about ⅜ mile east-southeast of entrance to Dividing Creek and ⅜ mile west-southwest of entrance to Granary Creek. Station is on small grassy point, about 1 foot above high water, 3 yards south of shore, and 2 yards north of tree-fringed bank 5 feet high. Station mark is nail in center of 2-inch cedar stub set in 2-inch tile pipe with top flush with surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. It is 8.58 meters (28.15 feet) from the station, in azimuth 359° 28′. Other distances and azimuths are as follows: Nail in blaze in 8-inch cedar tree 2.42 meters (7.94 feet), 47° 39′; left tangent of wharf, ¼ mile 164° 39′; near peak of large barn on Pickerings Creek, 1⅜ miles, 282° 01′; nail in blaze in 14-inch cedar tree, 2.31 meters (7.58 feet), 306° 06′; nail in blaze in one of 8-inch twin cedar trees, 3.72 meters (12.20 feet), 18° 29′

Whale (Talbot County, C. C. Yates, 1909).—On the southern shore of the branch of Wye River bounding Wye Island on the south, about ¼ mile south of entrance to Granary Creek, on sand and grass point at western side of entrance to a small cove, about 2 feet above high water, 2 yards south-southeast of shore, 4 yards west-northwest of shore, 9 yards southwest of extreme end of point, and 7 yards east by north of foot of terraced bank about 15 feet high. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in

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blaze in 10-inch cedar tree, 9.40 meters (30.84 feet), 29° 03′; nail in blaze in 7-inch cedar tree, 5.50 meters (18.04 feet), 52° 30′; nail in blaze in 5-inch cedar tree, 9.49 meters (31.14 feet), 58° 21′; near peak of larger barn, ¾ mile, 155° 30′; large oak tree, ¼ mile, 218° 36′; near corner of building, 1¼ miles, 278° 37′; near peak of large barn, 1½ miles, 281° 42′.

Granary (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the northern shore of the branch of Wye River bounding Wye Island on the south, on point at eastern side of entrance to Granary Creek, among water bushes, on marsh land, about 1 foot above high water, 10 yards northeast of shore, 11 yards west of shore, 12 yards north by west of extreme end of point, and 50 yards from trees. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left end of barn, 1½ miles, 85° 39′; left tangent of old wharf, ½ mile, 109° 25′; large chimney of building, 1¼ miles, 294° 19′; right tangent of point, ¼ mile, 355° 05′.

Morn (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on northern shore of the branch of Wye River bounding Wye Island on the south, about 300 yards east of entrance to Granary Creek and ¾ mile northwest of entrance to Pickerings Creek, about 1 foot above high water, 4 yards northwest of shore, 4 yards northeast of shore, and 6 yards southeast of foot of wooded slope to field 12 feet above high water. Station mark is nail in center of 2-inch cedar stub projecting 2 inches above 2-inch tile pipe with top flush with surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 3.82 meters (12.53 feet) from the station in azimuth 146° 09′. Other distances and azimuths are as follows: Right tree on point, ¼ mile, 23° 27′; tangent of woods, ⅝ mile, 85° 42′; nail in blaze in 6-inch locust tree, 2.49 meters (8.17 feet), 105° 37′; nail in blaze in 4-inch cedar tree, 5.47 meters (17.95 feet), 144° 58′; nail in blaze in 7-inch locust tree, 6.68 meters (21.91 feet), 148° 08′; tangent of point, ¼ mile, 267° 22′; near peak of building, 1½ miles, 296° 03′; tangent of foot of slope, ¼ mile, 319° 54′.

Chew (Talbot County, C. C. Yates, 1909).—On the southern shore of the branch of Wye River bounding Wye Island on the south, about ⅜ mile southeast of entrance to Granary Creek and ⅝ mile west-northwest of entrance to Pickerings Creek, on a marsh point, about 1 foot above high water, 6 yards northeast of foot of bank 12 feet high, 12 yards west of point of shore, and 10 yards northwest of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 10-inch cedar tree, 18.19 meters (59.7 feet), 27° 01′; nail in blaze in 6-inch cedar tree, 9.57 meters (31.40 feet), 91° 15′; nail in blaze in 5-inch cedar tree, 21.82 meters (71.6 feet), 101° 26′; large oak tree, ¼ mile, 175° 26′; tangent of point, ⅜ mile, 233° 46′; left end of building, ½ mile, 241° 06′; near peak of building, 1¼ miles, 277° 50′; near peak of large barn, 1 mile, 281° 35′.

Bush (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the northern shore of the branch of Wye River bounding Wye Island on the south, on north side of entrance to small cove about ½ mile east of entrance to Granary Creek, ⅝ mile northwest of entrance to Pickerings Creek. Station is in cultivated land, about 7 feet above high water, 4 yards northeast of edge of bank, 9 yards northwest of point of curve of land, 22 yards west of tangent of land at tree, 30 yards west-northwest of scattering trees, and 50 yards northwest of a point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile, note 17. Distances and azimuths to various points of reference are as follows: Largest cedar tree on point of high bank, ¼ mile, 12° 47′; nail in blaze in 2-inch locust tree, 3.81 meters (12.50 feet), 18° 24′; tangent of point, ¼ mile, 82° 24′; nail in blaze in 5-inch hackberry tree, 8.65 meters (28.38 feet), 96° 12′; nail in blaze in 10-inch walnut tree, 20.04 meters (65.7 feet), 264° 31′; tangent of point, ¼ mile, 322° 33′.

Right (Talbot County, C. C. Yates, 1909).—On the southern shore of the branch of Wye River bounding Wye Island on the south, on a point about ½ mile southeast of entrance to Granary Creek and ½ mile northwest of entrance to Pickerings Creek, in tree-fringed cultivated land, about 15 feet above high

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water, 7 yards south of edge of bank, 9 yards from point of bank at path, 15 yards northwest of edge of bank, and 120 yards east of fence in depression. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right peak of house, ½ mile, 17° 52′; windmill to right of two large cupolas, ⅝ mile, 35° 27′; left chimney of long house in woods, 1 mile, 141° 21′; nail in blaze in 8-inch cedar tree, 8.25 meters (27.07 feet), 184° 33′; left one of two large chimneys showing over the trees, 1 mile, 239° 18′; left corner of building, 1⅛ miles, 276° 47′; nail in blaze in 10-inch hickory tree, 10.80 meters (35.4 feet), 290° 45′; nail in blaze in 10-inch elm tree, 29.80 meters (97.8 feet), 351° 50′.

Wheel (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the northern shore of the branch of Wye River bounding Wye Island on the south, about ⅝ mile southeast by east of entrance to Granary Creek and ½ mile northwest of entrance to Pickerings Creek, on marsh point south of woods, about 1 foot above high water, 2 yards east of shore, 4 yards southeast of point at slight cut in marsh, and 40 yards north of square point of shore. Station mark is center of 2-inch cedar stub set in 2-inch tile pipe projecting 3 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 5.26 meters (17.26 feet) from station in azimuth 273° 14′. Other distances and azimuths are as follows: Right tangent of woods, 1 mile, 98° 35′; large oak tree, ½ mile, 116° 51′; nail in blaze in 14-inch oak tree, 21.66 meters (71.1 feet), 206° 40′; nail in blaze in 9-inch oak tree, 18.74 meters (61.5 feet), 218° 17′; nail in blaze in 6-inch cedar tree, 19.26 meters (63.2 feet), 249° 56′; left peak of large building, ¾ mile, 287° 01′; chimney showing over fence, ¾ mile, 296° 24′; right peak of large barn, ⅞ mile, 347° 04′; left peak of building, ⅞ mile, 347° 34′.

Nub (Queen Annes County, C. C. Yates, 1909).—On Wye Island, on the northern shore of the branch of Wye River bounding Wye Island on the south, on eastern side of entrance to a creek ⅝ mile east of entrance to Granary Creek and ½ mile north of entrance to Pickerings Creek, on a marsh point, about 1 foot above high water, 2 yards east of shore, 20 yards southwest of shore, 45 yards west of shore, 20 yards south of extreme end of point, and 16 yards north-northwest of woods. Station mark is nail in center of 2-inch cedar stub set in 3-inch tile pipe with top flush with surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 15.10 meters (49.5 feet) from station in azimuth 263° 01′. Other distances and azimuths are as follows: Chimney of House, ⅞ mile, 25° 52′; largest cedar on point of high bank, ⅜ mile, 43° 06′; large oak tree, ⅜ mile, 90° 45′; large oak tree, ⅛ mile, 139° 33′; large oak tree, 150 yards, 222° 07′; nail in blaze in 8-inch cedar tree, 16.81 meters (55.2 feet), 292° 47′; nail in blaze in 5-inch oak tree, 19.64 meters (64.4 feet), 328° 55′; nail in blaze in 4-inch oak tree, 20.87 meters (68.5 feet), 345° 27′.

Corner (Talbot County, C. C. Yates, 1909).—On the southern shore of the branch of Wye River bounding Wye Island on the south, about ¼ mile west of entrance to Pickerings Creek, in cultivated land, about 15 feet above high water, 50 yards southwest of edge of bank, 55 yards south of gully, 70 yards north-northwest of trees in depression, and 120 yards west of point of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of large barn, ¾ mile, 37° 26′; right corner of large house, 1½ miles, 75° 06′; chimney on corner of large house, 1 mile, 79° 16′; nail in blaze in large elm tree, 50.41 meters, 175° 33′; near peak of building, 1 mile, 177° 36′; nail in blaze in one of twin elm trees, 47.11 meters (154.6 feet), 223° 14′; near peak of house, 1¼ miles, 261° 04′; left peak of house with two chimneys, 1½ miles, 272° 17′; nail in blaze in 14-inch oak tree, 61.44 meters (201.6 feet), 321° 31.

Pick (Talbot County, C. C. Yates, 1909).—On the southern shore of the branch of Wye River bounding Wye Island on the south, on the western side of the entrance to Pickerings Creek, in cultivated land about 15 feet above high water, 25 yards southwest of edge of field at line of cedar trees, 22 yards west of gully, 40 yards south-southeast of a small clump of trees, beyond

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small gully, and 300 yards east-southeast of fringe of cedar trees along edge of field northeast to east of gully. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right peak of house, ¼ mile, 56° 57′; nail in blaze in 6-inch cherry tree, 36.64 meters (120.2 feet), 145° 15′; left peak of barn, 1¼ miles, 160° 41′; front peak of house, 1⅛ miles, 207° 18′; nail in blaze in 6-inch cedar tree, 27.24 meters (89.4 feet), 212° 33′; nail in blaze in 6-inch cedar tree, 26.37 meters (86.5 feet), 237° 07′; near peak of house, ⅝ mile, 254° 31′; nail in blaze in 5-inch hackberry tree, 23.00 meters (75.5 feet), 271° 59′; left peak of large barn, ¼ mile, 345° 57′.

MILES RIVER

Ollie (Talbot County, C. C. Yates, 1909).—On the eastern shore of Miles River, about 1 mile north of entrance to Leeds Creek, and ¾ mile northeast of Deep Water Point. Station is in woods about 8 feet above high water, 6 yards west of edge of bank, which is washing rapidly, and 8 yards northeast of large pine tree at edge of bank. Station mark is center of 2-inch tile pipe with top flush with surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 14.42 meters (47.3 feet) from station in azimuth, 285° 45′. Other distances and azimuths are as follows: Nail in blaze in 36-inch pine tree, 7.62 meters (25.00 feet), 27° 16′; weather vane on house on Deep Water Point farm, 1 mile, 58° 30′; near peak of house, 1⅝ miles, 93° 15′; chimney of house on Tilghmans Point farm, 4½ miles, 131° 58′; left tangent of main woods on Bennett Point, 3 miles, 173° 20′; chimney on right end of house in woods, 4 miles, 181° 20′; nail in blaze in 8-inch pine tree, 10.56 meters (34.6 feet), 241° 47′; nail in blaze in 7-inch pine tree, 10.55 meters (34.6 feet), 286° 42′; nail in blaze in 7-inch pine tree, 12.52 meters (41.1 feet), 317° 59′.

Spar (Talbot County, C. C. Yates, 1909).—On the southwestern shore of Miles River, about 1 mile southeast of entrance to Hambleton Creek, and ⅜ mile northwest of Deep Water Point, on a shore fringed with cedar and locust trees, about 4 feet above high water, 11 yards west of shore, 12 yards southwest of shore, and 15 yards south of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 3-inch locust tree, 6.84 meters (22.44 feet), 20° 49′; nail in blaze in 4-inch locust tree, 3.58 meters (11.75 feet), 60° 34′; chimney of house on Tilghmans Point farm, 4 miles, 142° 00′; nail in blaze in 3-inch oak tree, 4.52 meters (14.83 feet), 195° 40′; right tangent of chimney, 1¼ miles, 266° 13′; tangent of Deep Water Point, ¾ mile, 322° 03′.

Deewat (Talbot County, C. C. Yates, 1909).—On the western shore of Miles River, on Deep Water Point, about ⅞ mile west-northwest of Fairview Point, on a sand and grass point, about 2 feet above high water, 8 yards southwest of shore, 7 yards northwest of shore, and 10 yards west of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Weather vane on Dodson house, ¼ mile, 86° 21′; large square chimney of Starr house, 2⅝ miles, 213° 07′; large chimney of house, 1⅛ miles, 245° 16′; cupola on Rieman house, 1¼ miles, 305° 07′; tangent of Long Point, 3¼ miles, 320° 10′; steeple, 4½ to 5 miles, 328° 12′; large chimney of house, 2⅞ miles, 330° 49′; large chimney of house, 2⅜ miles, 342° 38′.

Swing (Talbot County, C. C. Yates, 1909).—On the eastern shore of Miles River, about ¼ mile northwest of entrance to Leeds Creek, on marsh land, between river and a small pond about 4 yards east of shore, 18 yards west of pond, 100 yards south of point of woods, and 100 yards northwest of another point of woods. Station mark is center of 2-inch tile pipe with top flush with surface of ground. Subsurface mark is center of 2-inch tile pipe buried with top 2 inches below base of surface pipe. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 54.35 meters (178.3 feet) from station in azimuth 242° 04′. Other distances and azimuths

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are as follows: Peak between two chimneys of Mulligan house, 1¾ miles, 10° 31′; square chimney of large house, 1¼ miles, 79° 17′; weather vane on house on Deep Water Point farm, ¾ mile, 106° 34′; between chimneys of large house, 2½ miles, 339° 17′; right one of two dormer windows on old house, 354° 46′.

Millwind (Talbot County, C. C. Yates, 1909).—On the western shore of Miles River, at south side of entrance to Long Haul Creek, about ⅞ mile northeast of St. Michaels Water Tank, and ¾ mile south of Deep Water Point, in the edge of a cultivated field, about 8 feet above high water, 2 yards west of edge of bank, 17 yards south of edge of bluff, and 18 yards south by west of junction of bush-covered bank and washed bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Union M. E. Church spire, ¾ mile, 47° 45′; largest one of a group of three cherry trees, 80 yards, 76° 05′; nail in blaze in 12-inch cedar tree, 38.94 meters (127.8 feet), 118° 20′; square chimney of Barnard house, ½ mile, 138° 06′; weather vane on square tower on house on Deep Water Point farm, ¾ mile, 174° 33′; north peak of house, 1¾ miles, 217° 20′; left chimney of Rieman house, 1¼ miles, 270° 29′; right chimney of large modern house on Hunting Creek, 2½ miles, 296° 00′; nail in blaze in 10-inch cedar tree, 5.28 meters (17.32 feet), 359° 27′.

Fair (Talbot County, C. C. Yates, 1909).—On the eastern shore of Miles River, on Fairview Point, at northwestern side of entrance to Leeds Creek, about 2 feet above high water, 9 yards northeast of shore, 16 yards northwest of shore, and 13 yards north of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Large tree near several buildings in yard, 1⅝ miles, 9° 17′; north peak of large house, 1⅝ miles, 17° 07′; west chimney of house, 1⅜ miles, 38° 14′; weather vane on square tower of house on Deep Water Point farm, 1 mile, 115° 35′; nail in blaze in 10-inch cedar tree, 17.37 meters (57.0 feet), 143° 30′; nail in blaze of 14-inch cedar tree, 11.15 meters (36.6 feet), 153° 24′; nail in blaze in cedar tree, 15.48 meters (50.8 feet), 191° 36′; west peak of Oliver house, 1 mile, 224° 38′; peak on tower of Norris house, ¾ mile, 235° 42′; corner post of porch on Rieman house, ⅜ mile, 303° 28′; near peak of gable on house at Pebbly Beach, 3¼ miles, 342° 23′.

Stony (Talbot County, C. C. Yates, 1909).—On the southwestern shore of Miles River, on point at east side of entrance to Spencer Cove, about 1¼ miles southeast of St. Michaels. Station is in a clump of large oak and birch trees, about 8 feet above high water, 14 yards south of the shore, 16 yards south-southwest of a point and 12 yards west of another point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 9-inch white oak tree, 4.51 meters (14.80 feet), 2° 09′; nail in blaze in 13-inch holly tree, 9.43 meters (30.94 feet), 31° 17′; nail in blaze in 10-inch pine tree, 12.34 meters (40.5 feet), 105° 48′; flagstaff on water tank, 1½ miles, 123° 17′; left chimney of house, 1⅝ miles, 131° 43′; weather vane on tower on Dodson house, 2¼ miles, 156° 25′; near peak of cupola on Rieman barn, 1⅝ miles, 199° 05′; peak of west gable of Hall house, 1⅜ miles, 212° 31′; spindle on cupola of house, 1¼ miles, 228° 54′; tangent of trees, ¼ mile, 311° 06′.

Margo (Talbot County, C. C. Yates, 1909).—On the northeastern shore of Miles River, about 1¼ miles north-northwest of Long Point, and 2 miles east of St. Michaels, on a marsh point about 1 foot above high water, 30 yards north of edge of marsh, 35 yards east of extreme point, and 55 yards west of bushes at edge of marsh. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17, buried with top 2 inches below base of monument. Old triangulation station *Marengo (1899)* (see index) is 29.61 meters (97.1 feet) from the station in azimuth 57° 12′. Its center is marked by the central one of five copper nails in top of a 5-inch cedar stub, 5 feet long, with top flush with surface of ground. Distances and azimuths to other points of reference are as follows: Near peak of large house with large square chimney, 1¼ miles,

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22° 28′; large square chimney on Dodson tenant house, 1 mile, 32° 20′; spindle on M. E. Church cupola, 2 miles, 88° 50′; right chimney of Fogg house, 1¾ miles, 102° 03′; peak of near gable of house, 2 miles, 111° 00′; weather vane on square tower on Dodson house, 2 miles, 131° 53′; persimmon tree, 120 yards, 166° 02′; left of trees on narrowest part of Long Point, ⅜ mile, 296° 45′.

Gibbs (Talbot County, C. C. Yates, 1909).—On the northeastern shore of Miles River, about ½ mile northwest of extreme end of Long Point, and 1½ miles south-southeast of entrance to Leeds Creek, on marsh, about 1 foot above high water, 17 yards north of shore, 25 yards east of shore, 20 yards northeast of extreme end of point, 35 yards west-northwest of point of woods, and 35 yards southwest of woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Southeast chimney of house, 1 mile, 17° 15′; chimney outside of northeast end of Slater house, 1 mile, 57° 59′; near peak of Leonard house, 1½ miles, 90° 02′; right chimney of house, 3 miles, 126° 48′; weather vane on Dodson house, 2¾ miles, 136° 41′; left tangent of Fairview Point, 2 miles, 148° 26′; nail in blaze in pine tree, 44.35 meters (145.5 feet), 221° 17′; nail in blaze in pine three, 29.15 meters (95.6 feet), 257° 10′; nail in blaze in pine tree, 30.44 meters (99.9 feet), 283° 30′; chimney on side of roof of large building, 1¾ miles, 336° 34′; west peak of long building, 1¾ miles, 348° 51′.

Maiden (Talbot County, C. C. Yates, 1909).—On the southwestern shore of Miles River, about ¾ mile west of Long Point and 2¼ miles southeast of St. Michaels, just outside of a fringe of trees near a small marsh skirting the shore, on a point about 3 feet above high water, 3 yards south of shore, 5 yards northeast of foot of bank, and 7 yards east of point of bank. Station mark is center of 2-inch tile pipe projecting 3 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. New reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 4.34 meters (14.24 feet) from station in azimuth 16° 58′. Old triangulation station *Miles River (1899)* is 38.22 meters (125.4 feet) from the station in azimuth 311° 31′; it is marked by cross lines on 6-inch square top of stone monument. Distances and azimuths to other points of reference are as follows: Nail in blaze in 22-inch cherry tree, 4.86 meters (15.94 feet), 30° 12′; nail in blaze in 5-inch cedar tree, 3.37 meters (11.06 feet), 81° 34′; nail in blaze in 8-inch cedar tree, 3.73 meters (12.24 feet), 106° 22′; chimney of Slater's house, ⅝ mile, 124° 30′; right chimney of house, 2⅜ miles, 136° 08′; weather vane on Dodson house, 2⅞ miles, 149° 32′; cupola on Rieman barn, 2 miles, 173° 53′; northwest chimney of house, 1⅝ miles, 186° 28′; weather vane on barn cupola, 1¾ miles, 200° 39′; north chimney of house, 2¼ miles, 259° 20′; large square chimney on old house, 1½ miles, 274° 11′; chimney on near side of roof of large building, 1⅜ miles, 321° 55′; west peak of large building near draw, 1⅛ miles, 329° 14′.

Long (Talbot County, C. C. Yates, 1909).—On the northern shore of Miles River, on Long Point, about ⅛ mile southwest of entrance to Hunting Creek and 1¼ miles north of railroad bridge across entrance to Oak Creek. Station is in cedar and pine woods, about 6 feet above high water, 10 yards east-southeast of edge of bank protected by log breakwater, 11 yards northeast of point of bank, 4 yards northwest of edge of bank, and 30 yards northwest of point of sandy marsh. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Smoke pipe of Royal Oak railroad station, 1¼ miles, 8° 00′; nail in blaze in 6-inch cedar tree, 2.53 meters (8.30 feet), 57° 58′; nail in blaze in 16-inch twin cedar trees, 4.47 meters (14.67 feet), 162° 38′; left corner of roof of house, ⅝ mile, 234° 55′; nail in blaze in 8-inch cedar tree, 4.45 meters (14.60 feet), 242° 48′; left peak of roof of house, 1⅜ miles, 259° 44′; spindle on barn cupola, 1¼ miles, 340° 10′.

Barnett (Talbot County, C. C. Yates, 1909).—On the southwestern shore of Miles River, about ¾ mile northwest of entrance to Oak Creek and ⅞ mile southeast of entrance to Spencers Cove, on marsh, about 1 foot above high water, 9 yards southwest of shore, 12 yards northwest of shore, 18 yards west-northwest of extreme end of point, and 8 yards northeast of foot of bank 6 feet high. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe,

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note 17. Distances and azimuths to various points of reference are as follows: *Nail in blaze in 8-inch cedar tree*, 5.04 meters (16.54 feet), 21° 51′; nail in blaze in 16-inch pine tree, 10.29 meters (33.8 feet), 49° 45′; cupola of Rieman's barn, 2⅜ miles, 169° 50′; left chimney of Hall's house, 2 miles, 179° 31′; near chimney of house, 1½ miles, 230° 21′; windmill, 2 miles, 238° 39′; left chimney of house, 2 miles, 247° 20′; near chimney of square roof house, 1⅝ miles, 255° 55′; spindle on cupola of barn, 1 mile, 294° 02′; southwest peak of barn, ⅞ mile, 316° 10′; nail in blaze in 26-inch oak tree, 9.22 meters (30.25 feet), 330° 47.

Comb (Talbot County, C. C. Yates, 1909).—On the southeastern shore of Miles River, about ⅛ mile north of entrance to Newcomb Creek, and ¾ mile northeast of railroad bridge across Oak Creek, in a cultivated field, about 6 feet above high water, 35 yards southeast of edge of bank, 30 yards east of edge of bank, 45 yards north of edge of bank on range with point, and 300 yards southwest of large lone sycamore tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Spindle on barn cupola, ½ mile, 8° 06′; left peak of house, 1⅛ miles, 73° 29′; chimney outside of left end of Fogg's cottage, 3⅝ miles, 123° 02′; weather vane on tower of Dodson house, 4 miles, 138° 04′; cupola of barn, 1⅝ miles, 164° 18′; left corner of house, 1 mile, 188° 59′; large lone sycamore tree, 300 yards, 210° 43′; windmill in range with house, 1¼ miles, 229° 25′; stack of cannery, ¾ mile, 359° 55′.

Hall (Talbot County, C. C. Yates, 1909).—On the southern shore of Miles River, about 100 yards west of west end of railroad trestle across entrance to Oak Creek, and 100 yards east of Royal Oak railway station. Station is in marsh about 1 foot above high water, 30 yards southwest of shore, 40 yards south of shore, 85 yards west-northwest of shore at corner of shed, and 35 yards north-northeast of near rail of railway track. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of middle of Hall Building, 2⅝ miles, 168° 49′; near chimney of Speck's house, 1⅝ miles, 203° 26′; chimney of Dorrance's house, 2½ miles, 212° 33′; chimney on southeast end of house, ½ mile, 249° 18′; left tangent of shed, 85 yards, 287° 54′; northwest peak of barn, ¼ mile, 306° 41′; north peak of Kirby's house, ½ mile, 15° 24′; chimney of house, ¼ mile, 62° 23′; chimney on railroad station, 100 yards, 79° 58′; left chimney of house, ½ mile, 111° 24′.

Ham (Talbot County, C. C. Yates, 1909).—On the southeastern shore of Miles River, about ⅝ mile east-southeast of Long Point, ½ mile southeast of entrance to Hunting Creek, and ⅜ mile northeast of entrance to Newcomb Creek, in cultivated land, about 6 feet above high water, 12 yards south-southeast of edge of bank, 20 yards west-southwest of wooden fence at orchard, 65 yards north-northwest of fence at road, 70 yards west-northwest of large square house, and 70 yards northwest of corner of fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Large lone sycamore tree ¼ mile, 29° 09′; left peak of house, 1⅜ miles, 62° 09′; near peak of large house, 1¾ miles, 92° 00′; near peak of house, 1¾ miles, 143° 09′; left corner of house, ⅝ mile, 175° 52′; front peak of large colonial house, ¾ mile, 204° 58′; nail in blaze in fence post, 17.32 meters (56.8 feet), 217° 25′; near corner of large house, 3 miles, 225° 35′; nail in blaze in 24-inch cherry tree, 21.67 meters (71.1 feet), 260° 46′; left corner of house, 73 yards, 280° 39′; nail in blaze in 24-inch cherry tree, 36.78 meters (120.7 feet), 285° 44′; spindle on barn cupola, ⅝ mile, 335° 43′.

Hunting (Talbot County, C. C. Yates, 1909).—On the northwestern shore of Miles River, on east side of entrance to Hunting Creek, and ½ mile northeast of Long Point, in south corner of cultivated field, about 5 feet above high water, 2 yards northwest of edge of bank with bushes, 6 yards west of edge of bank, 7 yards northeast of point of bank, 50 yards north of edge of lower land, and 200 yards south of large barn with cupola. Station mark is center of triangle on standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Spindle on barn cupola,

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1½ miles, 4° 12; left peak of building near railroad bridge; 1½ miles, 18° 55′; left tree on Long Point, ½ mile, 53° 26′; near peak of large building, 1½ miles, 139° 44′; spindle on barn cupola, 200 yards, 170° 38′; peak of near gable on house, ¼ mile, 236° 36′; nail in blaze in 3-inch cherry tree, 7.98 meters (26.18 feet), 238° 30′; left peak of house, 1 mile, 262° 51′; near peak of large barn, ¾ mile, 305° 44′; nail in blaze in 6-inch persimmon tree, 5.87 meters (19.26 feet), 359° 27′.

Spree (Talbot County, C. C. Yates, 1909).—On the northwestern shore of Miles River, about ½ mile east of entrance to Hunting Creek, and ¾ mile northeast of Long Point, on marsh, about 1 foot above high water, 2 yards north of shore, 15 yards west-southwest of wire fence, and 25 yards south of trees. Station mark is center of 2-inch tile pipe with top flush with ground; subsurface mark is center of 2-inch tile pipe buried with top 2 inches below base of surface pipe. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 10.57 meters (34.7 feet) from station in azimuth 182° 18′. Distances and azimuths to other points of reference are as follows: Spindle on barn cupola, ⅞ mile, 16° 10′; left corner of roof of house, 2 miles, 47° 30′; nail in blaze in 5-inch hackberry tree, 22.08 meters (72.4 feet), 146° 46′; nail in blaze in 6-inch cherry tree, 23.17 meters (76.0 feet), 181° 21′; right peak of colonial house, ¼ mile, 235° 03′; nail in blaze in fence post, 15.04 meters (49.3 feet), 239° 40′; left corner of boat house, ¼ mile, 241° 55′; near corner of large house, 1 mile, 244° 38′; left peak of roof of house, ⅝ mile, 279° 05′; spindle on barn cupola, ¾ mile, 356° 14′.

Kirk (Talbot County, C. C. Yates, 1909).—On the southeastern shore of Miles River, between two creeks, about 1 mile east of Long Point, in a cultivated field, 7 feet above high water, 15 yards southeast of edge of bank, 35 yards west-southwest of point of bank covered with trees, and 40 yards west-northwest of large sycamore tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, not 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Spindle on barn cupola, ½ mile, 28° 36′; left corner of square house, ½ mile, 37° 41′; near peak of large house, 1¾ miles, 47° 59′; left corner of large house, ½ mile, 118° 37′; highest near peak of house, ⅜ mile, 137° 18′; right front peak of large house, ⅜ mile, 178° 21′; nail in blaze in 6-inch cedar tree, 28.33 meters (92.9 feet), 201° 27′; left corner of large house, 1½ miles, 210° 02′; center of windmill tower, 2⅛ miles, 220° 46′; spindle on right barn cupola, ¾ mile, 232° 05′; nail in blaze in 5-inch cedar tree, 37.05 meters (121.6 feet), 245° 45′; left peak of roof of large house, ⅜ mile, 256° 27′; nail in blaze in 36-inch sycamore tree, 34.98 meters (114.8 feet), 276° 53′.

Whit (Talbot County, C. C. Yates, 1909).—On the northwestern shore of Miles River, on east side of entrance to small cove, about 1¼ miles northeast of Long Point, on a small marsh point, near a clump of cedar and hackberry trees, about 1 foot above high water, 5 yards northwest of shore, 4 yards northeast of shore, and 6 yards north of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile, note 17. Distances and azimuths to various points of reference are as follows: Left corner of square house, 1 mile, 31° 59′; left corner of roof of house, ¼ mile, 66° 16′; near peak of large house, ¾ mile, 102° 44′; nail in blaze in twin hackberry tree (20 inches diameter), 4.49 meters (14.73 feet), 137° 17′; nail in blaze in 5-inch hackberry tree, 4.98 meters (16.34 feet), 171° 00′; near peak of Dorrance house, ⅜ mile, 201° 27′; nail in blaze in 4-inch hackberry tree, 8.07 meters (26.48 feet), 208° 21′; left corner of house, ⅝ mile, 212° 04′; center of windmill tower, 1⅝ miles, 225° 14′; center of windmill tower, 1⅝ miles, 237° 57′; near peak of house, ⅝ mile, 248° 20′; left peak of roof of house, ⅜ mile, 331° 56′.

McConnell (Talbot County, C. C. Yates, 1909).—On the southeastern shore of Miles River, near west side of entrance to a small cove about 1¼ miles east-northeast of Long Point and 1⅝ miles southwest of Miles River bridge. Station is in cultivated land, about 6 feet above high water, 15 yards southeast of edge of bank, 20 yards south of point of bank, and 40 yards west of edge of field at trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right peak of barn, ¼ mile, 3° 18′; left peak of roof of house, 2½ miles, 55° 35′; left peak of large house, ¾ mile, 80° 48′; front peak of house,

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½ mile, 97° 00′; spindle on barn cupola, ½ mile, 165° 58′; left corner of plastered house, ½ mile, 172° 33; right corner of large house, ⅝ mile, 197° 11; right corner of house, ⅞ mile, 221° 08′; nail in blaze in 5-inch cherry tree, 39.78 meters (130.5 feet), 242° 36′; nail in blaze in 8-inch cherry tree, 37.57 meters (123.3 feet), 265° 21′; nail in blaze in 10-inch cherry tree, 53.92 meters (176.9 feet), 289° 53′.

Dorrance (Talbot County, C. C. Yates, 1909).—On the northwestern shore of Miles River, about 1¼ miles southwest of Miles River bridge and 1½ miles northeast of Long Point. Station is about 5 feet above high water, 2 yards northwest of edge of bank, 9 yards west-southwest of large tree on point of bank, 11 yards west of point of bank, and 12 yards southwest of edge of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 18-inch hickory tree, 5.79 meters (19.00 feet), 13° 38′; right corner of house, 300 yards, 67° 30′; left peak of small tenant house, 300 yards, 119° 24′; near corner of Dorrance's house, 300 yards, 189° 15′; right corner of house, ½ mile, 216° 17′; center of windmill tower, 1⅜ miles, 230° 19′; left corner of large house, 2 miles, 238° 26′; near corner of Henderson house, 1⅜ miles, 244° 42′; center of windmill on tower, 1⅜ miles, 245° 38′; nail in blaze in 20-inch hickory tree, 8.58 meters (28.15 feet), 248° 03′; spindle on barn cupola, ½ mile, 283° 02′; right peak of house, ⅜ mile, 290° 59′; near peak of house, ¾ mile, 356° 24′.

Doctor (Talbot County, C. C. Yates, 1909).—On the southeastern shore of Miles River, about 1¼ miles west-southwest of Miles River bridge, and 1¾ miles northeast by east of Long Point, in cultivated land back of bushes, about 4 feet above high water, 4 yards southeast of edge of bank, 55 yards southwest of wire fence, 80 yards west of corner of wire fence, 100 yards west by south of a house, and 100 yards west-southwest of a marsh point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right peak of large barn, ⅝ mile, 16° 11′; near peak of roof of house, ⅝ mile, 21° 19′; spindle on barn cupola, ¾ mile, 35° 14′; near peak of house, ⅝ mile, 67° 58′; peak of house, ¾ mile, 144° 47′; nail in blaze in 3-inch bush, 6.66 meters (21.85 feet), 167° 36′; nail in blaze in 8-inch apple tree, 17.93 meters (58.8 feet), 185° 28′; left corner of house, ½ mile, 190° 34′; center of tower, 1⅛ miles, 217° 48′; left corner of shed, 100 yards, 244° 45′; nail in blaze in fence post, 71.35 meters (234.1 feet), 259° 33′.

Tang (Talbot County, C. C. Yates, 1909).—On the northwestern shore of Miles River, at south side of entrance to cove, about 1 mile southwest of Miles River bridge, on marsh point, about 1 foot above high water, 20 yards northwest of shore, 25 yards north of point of shore, 35 yards west-southwest of another point of shore, and 150 yards southeast of wire fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of roof, ⅞ mile, 9° 51′; near peak of Dorrance house, ¼ mile, 54° 33′; near peak of house, ¼ mile, 149° 30′; right corner of house, ¼ mile, 212° 32′; center of windmill tower, ¾ mile, 233° 17′; right eave of Goldsborough house, 1⅝ miles, 242° 12′; center of windmill tower, 1⅛ miles, 252° 23′; near corner of large chimney of mansion, 1 mile, 269° 36′; right peak of Mumford house, ⅜ mile, 340° 43′.

Fig (Talbot County, C. C. Yates, 1909).—On the southeastern shore of Miles River, about 1 mile southwest of Miles River bridge, in cultivated land, about 12 feet above high water, 4 yards southeast of edge of tree-covered bank, and 150 yards north-northwest of large barn with two cupolas. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of large barn, ¼ mile, 24° 35′; nail in blaze in 8-inch oak tree, 19.14 meters (62.8 feet), 46° 07′; near peak of house, ⅝ mile, 85° 19′; nail in blaze in hackberry tree, 8.66 meters (28.41 feet), 86° 42′; left corner of Dorrance's house, ½ mile, 103° 40′; nail in blaze in 4-inch cedar tree, 9.39 meters (30.81 feet), 163° 32′; spindle on cupola on hip roof of house, ¾ mile, 201° 21′; center of windmill

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on tower, ⅞ mile, 214° 31′; point of tower on house, ⅞ mile, 217° 47′; left corner of Henderson's house, 1 mile, 233° 56′; center of windmill on tower, 1 mile, 235° 17′; near peak of tenant house, ¼ mile, 261° 12′; spindle on left one of two cupolas on barn, 150 yards, 341° 29′.

Bethel (Talbot County, C. C. Yates, 1909).—On the southeastern shore of Miles River, at northeast side of entrance to small creek, about ¾ mile southwest of Miles River bridge, in a clump of pine trees, about 3 feet above high water, 9 yards south of shore on rounded point, and 20 yards east of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of Dorrance's house, ¾ mile, 74° 43′; nail in blaze in 14-inch cedar tree, 5.76 meters (18.90 feet), 95° 19′; left corner of second story of Lowndes's house, ⅜ mile, 126° 07′; nail in blaze in 6-inch persimmon tree, 4.91 meters (16.11 feet), 164° 35′; center of windmill on tower, ½ mile, 212° 14′; left corner of Goldsborough's house, 1 mile, 213° 20′; nail in blaze in 10-inch locust tree, 4.74 meters (15.55 feet), 236° 07′; center of windmill on tower, ⅞ mile, 244° 20′; left corner of large chimney, ½ mile, 306° 31′.

Johnson (Talbot County, C. C. Yates, 1909).—On the northwestern shore of Miles River, on a point about ¾ mile west-southwest of Miles River Bridge, on a lawn, about 10 feet above high water, 3 yards north-northwest of top of bank, 60 yards northeast of cedar tree 20 inches in diameter in clump of six trees near boat landing, and 74 meters southeast of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right corner of Mumford's house, ½ mile, 6° 51′; left side of 20-inch cedar tree, 57 yards, 28° 42′; nail in blaze in 6-inch elm tree, 10.58 meters (34.7 feet), 34° 57′; near peak of Dorrance's house, ⅜ mile, 46° 18′; southeast peak of Crown's house, ¼ mile, 74° 47′; left corner of second story of Lowndes's house, 74 meters, 118° 56′; right corner of house, 155° 11′; nail in blaze in 5-inch elm tree, 16.11 meters (52.9 feet), 190° 48′; windmill on tower, 1 mile, 232° 33′; windmill on tower, ¾ mile, 238° 55′; windmill on tower, ⅞ mile, 263° 42′; left corner of large chimney outside of house, ¾ mile, 287° 11′; nail in blaze in 14-inch pine tree, 11.03 meters (36.2 feet), 300° 14′; spindle on left cupola of barn, ½ mile, 353° 53′.

Lowndes (Talbot County, C. C. Yates, 1910).—On the northwestern shore of Miles River, about ¼ mile southwest of Miles River bridge, on a rounded point of marsh, about 1 foot above high water, 7 yards northwest of shore, 8 yards west of shore, 9 yards north of shore, 16 yards east-northeast of shore, and 65 yards east-southeast of small locust trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right corner of large house, 2 miles, 56° 21′; nail in blaze in 6-inch locust tree, 19.17 meters (62.9 feet), 150° 41′; windmill at "The Anchorage," ⅛ mile, 198° 46′; near corner of "The Anchorage," ⅛ mile, 204° 49′; left corner of second story of Goldsborough's house, ⅜ mile, 215° 58′; right corner of Lockwood's house, ¾ mile, 243° 44′; right corner of drawtender's house, ¼ mile, 267° 41′; Henderson's windmill, ¼ mile, 284° 49′; near peak of large house, ½ mile, 332° 50′.

Henderson (Talbot County, C. C. Yates, 1910).—On the southeastern shore of Miles River, on point about ¼ mile southwest of Miles River bridge, on a hard marsh point, about 1 foot above high water, 6 yards southeast of shore, 8 yards south of shore, 13 yards east of shore, 23 yards north-northeast of point of higher land, and 15 yards north of trees along bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 5-inch locust tree, 13.76 meters (45.1 feet), 12° 33′; nail in blaze in 7-inch wild-cherry tree, 21.71 meters (71.2 feet), 42° 00′; left corner of second story of Lowndes house, ⅝ mile, 91° 44′; peak of near gable of house, ⅜ mile, 106° 44′; windmill at "The Anchorage," ⅜ mile, 167° 41′; right corner of old Episcopal Church tower, ⅜ mile, 177° 56′; left corner of Goldsborough's house, ⅝ mile, 195° 44′; Henderson's windmill, ⅛ mile, 240° 37′; nail in blaze in 5-inch wild-cherry tree, 16.25 meters (53.3 feet), 324° 07′.

Easton (Talbot County, C. C. Yates, 1910).—On the southern side of Miles River, on southeastern approach to Miles River bridge, on southwest side of

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cribwork retaining a shell road, 6 inches from downstream edge of cribwork, 7 yards southwest of upstream edge of cribwork, 25 yards southeast of corner of cribwork abutment, 30 yards northwest of extended line of Henderson's sea wall, 9 yards southwest by south of nails in side of telephone pole on upstream side of bridge, and 45 yards northwest by west of first telephone pole southeast of bridge on northeastern side of road. Station mark is a spindle, 1 inch in diameter, on top of a 3-inch square timber.

Draw (Talbot County, C. C. Yates, 1910).—On the northwest shore of Miles River, at northwest end of Miles River bridge, and near the old Episcopal Church, on the lawn of "The Anchorage," about 4 feet above high water, 9 yards west of plank sea wall, 40 yards southwest of approach to bridge, 60 yards north of corner of plank sea wall, and 85 yards east of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left corner of log cabin, 112 yards, 72° 23′; nail in blaze in 12-inch maple tree, 14.61 meters (47.9 feet), 74° 10′; right corner of main house of "The Anchorage," 84 yards, 97° 22′; nail in blaze in 10-inch pear tree, 7.63 meters (25.03 feet), 133° 51′; right corner of old Episcopal Church, 120 yards, 181° 39′; spike in sea wall post, 15.32 meters (50.3 feet), 204° 25′; windmill on tower, ¼ mile, 210° 56′; lightning rod on tower of Goldsborough's house, ¼ mile, 217° 05′; corner of stone bridge abutment, 43 yards, 233° 14′; spike in sea wall post, 7.72 meters (25.33 feet), 246° 17′; near peak of Lockwood boat landing, ½ mile, 249° 20′; right corner of second story of Lockwood's house, ½ mile, 254° 59′; spindle on barn cupola, ⅜ mile, 293° 51′; spike in sea wall post, 12.03 meters (39.5 feet), 317° 58′; right corner of second story of Henderson's house, ¼ mile, 326° 05′; nail in blaze in 12-inch maple tree, 14.15 meters (46.4 feet), 10° 53′.

Chap (Talbot County, C. C. Yates, 1910).—On the northwestern shore of Miles River, opposite the point between Glebe Creek and Goldsboro Creek, and about ¼ mile northeast of Miles River bridge, on a point about 2 feet above high water, 5 yards west of shore, 7 yards northeast of shore, and 9 yards north-northwest of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left peak of boathouse at "The Anchorage," ¼ mile, 51° 04′; left corner of "The Anchorage," ¼ mile, 62° 19′; left corner of old Episcopal Church, ¼ mile, 68° 05′; nail in blaze in 5-inch locust tree, 13.65 meters (44.8 feet), 104° 31′; left corner of Goldsborough's house, ⅛ mile, 142° 32′; nail in blaze in 8-inch locust tree, 9.07 meters (29.76 feet), 144° 13′; windmill on tower, ⅛ mile, 149° 20′; nail in blaze in 8-inch locust tree, 13.39 meters 43.9 feet), 173° 14′; right peak of brick house, ⅜ mile, 214° 21′; near peak of wharf house, ⅛ mile, 268° 48′; right corner of 2½-story house, ¼ mile, 347° 20′.

Villa (Talbot County, C. C. Yates, 1910).—On the southeastern shore of Miles River, at northeast side of entrance to Glebe Creek, about ⅜ mile east of Miles River bridge, on a marsh point, about 1 foot above high water, 11 yards northwest of shore, 17 yards southeast of shore, 30 yards west by south of extreme end of point of marsh, 75 yards northeast of shore, and southwest of a few small trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right corner of Henderson house, ⅜ mile, 58° 23′; spindle on cupola on barn near "The Anchorage," ⅝ mile, 87° 11′; windmill at "The Anchorage," ⅝ mile, 91° 11′; left corner of tower at old Episcopal Church, ⅝ mile, 95° 59′; left corner of modern house, ⅜ mile, 124° 53′; windmill on tower, ½ mile, 128° 35′; nail in blaze in 8-inch locust tree, 17.83 meters (58.5 feet), 138° 38′; left corner of "The Villa," ⅛ mile, 174° 28′; nail in blaze in 4-inch locust tree, 19.86 meters (65.2 feet), 190° 29′; nail in blaze in 8-inch persimmon tree, 26.23 meters (86.1 feet), 239° 58′; right corner of large house, ⅜ mile, 294° 12′; tongue of bell, ¼ mile, 349° 05′.

LEEDS CREEK

Leeds (Talbot County, C. C. Yates, 1909).—On the eastern shore of Miles River, at southern side of entrance to Leeds Creek, on marsh, about 1 foot

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above high water, 11 yards southeast of shore, 23 yards northeast of shore, 27 yards east-northeast of extreme end of point, and 200 yards west-northwest of a large house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Tangent of point, 27 yards, 00° 53′; near peak of large house, 1½ miles, 26° 48′; cupola on schoolhouse, 1⅞ miles, 63° 00′; weather vane on Dodson house, 1¼ miles, 117° 21′; chimney of small house, ⅞ mile, 179° 53′; near peak of Rieman's house, ⅛ mile, 300° 48′.

Rieman (Talbot County, C. C. Yates, 1909).—On the southeastern shore of Leeds Creek, about ¼ miles northeast of Miles River, on small marsh point about 1 foot above high water, 3 yards south of shore, 3 yards northeast of shore, 6 yards east-southeast of extreme end of point, 12 yards west of large cedar tree on point 2 feet higher than station, and 13 yards west-southwest of two large cedar trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left piazza post of Fogg cottage, 1½ miles, 69° 06′; left corner of chimney, ¾ mile, 169° 09′; near corner of house, 1¼ miles, 213° 25′; right corner of house, ¾ mile, 227° 26′; nail in blaze in 20-inch cedar tree, 11.31 meters (37.1 feet), 257° 40′; nail in blaze in 8-inch cedar tree, 16.86 meters (55.3 feet), 286° 13′; left corner of Rieman's house, ¼ mile, 351° 55′.

Second (Talbot County, C. C. Yates, 1909).—On the northwestern shore of Leeds Creek, about ¼ mile north of Miles River, and at the northeastern side of entrance to a small cove, on a small marsh point just east of cedar woods about 1 foot above high water, 5 yards west of shore, 13 yards north of shore, and 25 yards south of bend in shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 7-inch cedar tree, 9.31 meters (30.5 feet), 58° 00′; nail in blaze in 8-inch cedar tree, 5.78 meters (18.96 feet), 85° 25′; nail in blaze in 10-inch cedar tree, 6.57 meters (21.56 feet), 117° 40′; south peak of barn, 1 mile, 203° 40′; near corner of house, 1¼ miles, 220° 09′; brick smokestack at Tunis Mills, 2⅛ miles, 228° 17′; spindle on tower of house, ⅝ mile, 242° 36′; northeast peak of large building, ⅝ mile, 255° 52′; cupola on barn, ½ mile, 337° 01′.

Beak (Talbot County, C. C. Yates, 1909).—On the southeastern shore of Leeds Creek, about ½ mile northeast of Miles River, at southwestern side of entrance to small cove. Station is near edge of pasture land, about 3 feet above high water, 6 yards southwest of edge of bank, 12 yards south of point of bank, 10 yards southeast of edge of bank, 60 yards west of a small cove, and 25 yards northeast of a line of five poplar trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Cupola on St. Michael's primary school, 2¼ miles, 54° 35′; nail in blaze in 6-inch poplar tree, 7.70 meters (25.26 feet), 154° 45′; weather vane on water tank, 1 mile, 159° 09′; south peak of large barn, ¾ mile, 181° 04′; nail in blaze in 5-inch hackberry tree, 7.77 meters (25.49 feet), 226° 15′; spindle on tower of house, ¼ mile, 236° 41′; southwest peak of large building, ⅝ mile, 263° 33′; nail in blaze in 4-inch cedar tree, 13.42 meters (44.0 feet), 277° 12′; weather vane on tower, 1½ miles, 338° 47′.

But (Talbot County, C. C. Yates, 1909).—On the northwestern shore of Leeds Creek, about ⅝ mile north of Miles River, and at northeastern side of entrance to small cove, on a small marsh point, about 1 foot above high water, 11 yards south-southwest of shore, 8 yards west of point of shore, 7 yards north of shore, 7 yards east of pasture land, 100 yards southwest of clump of trees, and 6 yards from a line of cedar trees extending north and south. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 4-inch cedar tree, 9.17 meters (30.08 feet), 64° 34′; nail in blaze in 3-inch hackberry tree, 8.93 meters (29.30 feet), 86° 04′; nail in blaze in 3-inch water bush, 5.42 meters (17.78 feet), 138° 52′; chimney of house, ½ mile, 179° 19′; south peak of large barn, ⅜ mile, 210° 53′; right corner of large brick house, ¾ mile, 260° 09′; spindle on tower of house, ½ mile, 280° 10′;

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right peak of house with two chimneys, ½ mile, 327° 56′; right corner of Rieman house, ⅞ mile, 353° 22′.

Mais (Talbot County, C. C. Yates, 1909).—On the southeastern shore of Leeds Creek, about ¾ mile northeast of Miles River and near point at southwestern side of entrance to a small cove. Station is in western corner of an orchard, about 3 feet above high water, 10 yards southeast of top of bank, and 140 yards northwest of large house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 6-inch apple tree, 4.78 meters (15.68 feet), 66° 05′; south peak of large barn, ⅜ mile, 156° 17′; nail in blaze in 6-inch apple tree, 8.19 meters (26.87 feet), 196° 54′; nail in blaze in 5-inch apple tree, 3.72 meters (12.20 feet), 285° 23′; spindle on tower of house, 137 yards, 305° 51′; nail in blaze in 8-inch poplar tree, 14.08 meters (46.2 feet), 342° 55′; weather vane on water tank, ¾ mile, 354° 47′.

Aber (Talbot County, C. C. Yates, 1909).—On the northwestern shore of Leeds Creek, about ¾ mile northeast of Miles River, on point covered with cedar trees at western side of entrance to a small cove, about 2 feet above high water, 8 yards southwest of shore, 9 yards north of shore, and 9 yards northwest of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 8-inch cedar tree, 2.27 meters (7.45 feet), 92° 08′; nail in blaze in 4-inch cedar tree, 7.90 meters (25.92 feet), 114° 58′; nail in blaze in 17-inch cedar tree, 16.97 meters (55.7 feet), 148° 05′; south peak of large barn, ¼ mile, 181° 16′; near peak of barn cupola, ¾ mile, 267° 45′; right corner of large brick house, ½ mile, 272° 43′; spindle on tower of house, ⅜ mile, 320° 37′; weather vane on water tank, 1¼ miles, 346° 39′.

Two (Talbot County, C. C. Yates, 1909).—On the northwestern shore of Leeds Creek, about 1 mile northeast of Miles River, on a marsh point at southern side of entrance to a small cove, about 1 foot above high water, 5 yards west of shore, 6 yards northeast of shore, 7 yards north of extreme end of point, and 25 yards southeast of woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 2-inch water bush, 6.23 meters (20.44 feet), 97° 48′; nail in blaze in 2-inch water bush, 3.02 meters (9.91 feet), 154° 17′; nail in blaze in 3-inch water bush, 4.53 meters (14.86 feet), 176° 35′; left peak of large barn, ⅜ mile, 225° 07′; cupola on large house, 1¼ miles, 249° 02′; near peak of building, ¾ mile, 265° 36′; left corner of large brick house, ⅜ mile, 296° 33′; right peak of barn cupola, ½ mile, 338° 39′; peak of tower on house, ⅜ mile, 353° 27′.

Face (Talbot County, C. C. Yates, 1909).—On the southeastern shore of Leeds Creek, about 1 mile northeast of Miles River, and near the northeastern side of entrance to a small cove, in a field, about 5 feet above high water, 130 yards east of bank, 150 yards south of bank, 300 yards west-northwest of large brick house, and 110 yards north-northwest of two very large cedar trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Spindle on tower of house, ⅜ mile, 21° 06′; tangent of woods, 1 mile, 47° 27′; left corner of house, ⅜ mile, 120° 16′; right one of three large cedar trees, 111 yards, 146° 19′; near peak of house, ½ mile, 207° 03′; brick smokestack at Tunis Mills, 1⅛ miles, 226° 49′; west peak of large barn, 400 yards, 272° 04′; right corner of large brick house, 300 yards, 289° 08′; left peak of barn cupola, ¼ mile, 353° 02′.

HUNTING CREEK

Beg (Talbot County, C. C. Yates, 1909).—On the southwestern shore of Hunting Creek, on first prominent point north of where creek enters Miles River, in scant pine woods, about 5 feet above high water, 3 yards south of bank, 9 yards northwest of bank, and 11 yards west of point of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is 2-inch tile pipe, note 17. Distances and azimuths

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to various points of reference are as follows: Nail in blaze in 2-inch pine tree, 2.23 meters (7.32 feet), 39° 51′; spindle on barn cupola, ⅞ mile, 169° 13′; nail in blaze in 10-inch pine tree, 2.34 meters (7.68 feet), 181° 52′; front peak of large house, ⅜ mile, 205° 18′; peak of near gable of house, ½ mile, 249° 15′; left peak of roof of house, 1¼ miles, 267° 31′; nail in blaze in 7-inch pine tree, 2.97 meters (9.74 feet), 323° 34′.

Search (Talbot County, C. C. Yates, 1909).—On the western shore of Hunting Creek, about ½ mile north of Miles River, on marsh, about 1 foot above high water, 11 yards northwest of shore, 40 yards south-southwest of shore, 35 yards west-southwest of point of shore, 3 yards east of water bushes, 20 yards south of bushes, and 25 yards southwest of water bushes. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 14-inch pine tree, 16.62 meters (54.5 feet), 24° 54′; spindle on barn cupola, ½ mile, 278° 28′; lightning rod on house, ⅝ mile, 282° 44′; peak of front gable of house, 1¼ miles, 304° 52′.

Tug (Talbot County, C. C. Yates, 1909).—On the eastern shore of Hunting Creek, about ½ mile north of Miles River, in cultivated land, about 6 feet above high water, 10 yards east of edge of bank, 32 yards north of extreme point of shore, 7 yards northeast of a shanty, 14 yards northwest of shore and trees along shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left corner of shanty, 7.47 meters (24.51 feet), 19° 58′; right corner of shanty, 6.64 meters (21.78 feet), 49° 28′; left corner of house behind very large oak tree, ¼ mile, 151° 32′; left peak of ell of house, ¼ mile, 239° 12′; nail in blaze in 5-inch birch tree, 18.48 meters (60.6 feet), 254° 24′; nail in blaze in 9-inch birch tree, 12.84 meters (42.1 feet), 271° 11′; right peak of barn with cupola, ⅜ mile, 317° 10′; nail in blaze in 4-inch cedar tree, 7.74 meters (25.39 feet), 347° 01′.

Kemp Tower (Talbot County, C. C. Yates, 1909).—On the southern shore of Eastern Bay, on Wades Point, about 1 mile southwest of Claiborne Wharf, and 5⅛ miles east of Bloody Point Bar Light. Station is center of top of roof of cupola of Wades Point Hotel, which is a large square frame structure adjoining a brick house.

Rich Neck Water Tank (Talbot County, C. C. Yates, 1909).—On neck of land about halfway between Eastern Bay and Miles River, about 1¾ miles south-southwest of Tilghmans Point. Station is spindle on center of large water tank on steel tower on Rich Neck Farm.

Parsons Island Water Tank (Queen Annes County, C. C. Yates, 1909).—In the northern part of Eastern Bay, between Crab Alley and Prospect Bays, on Parsons Island, about halfway between the north and south ends of the island. Station is center of spindle on center of water tank on a wooden structure near a house.

New barn, cupola (Queens County, C. C. Yates, 1909).—On the western shore of Prospect Bay, on Crab Alley Neck, about 1¾ miles northwest of Parsons Island. Station is spindle with weather vane on cupola of barn about 100 yards east-southeast from house on farm belonging to H. C. Norman.

St. Michaels water tank (Talbot County, C. C. Yates, 1909).—On the western side of Miles River, in town of St. Michaels, on north side of Railroad Avenue, near African M. E. Church. Station is spindle on center of top of 60,000-gallon water tank on steel tower 90 feet high.

Barn cupola (Queen Annes County, P. A. Welker, 1899).—On the east side of Kent Island, about ½ mile south of entrance to Kirwans Creek, western side of Prospect Bay. Station is cupola on large white barn on property of Walter K. White.

CHESAPEAKE BAY, KENT ISLAND TO PATUXENT RIVER

Meekins Neck 2 (Dorchester County, D. B. Wainwright, 1897; 1901).—On the eastern short of Chesapeake Bay, directly opposite Cove Point, in a clump of woods known locally as Cattle Island, the property (in 1897) of M. M. Dunnock. The station was marked with a concrete post with a galvanized-iron core, note 20. The reference mark is a 4-inch cedar post, 2½ feet long,

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its lower end composed of a bunch of roots. The lower end and top were set in a small amount of cement. It was placed a little south of the range from Cove Point extended, and 99.44 feet from the signal. A cedar tree close to the line to reference mark is 24.1 meters (79.1 feet) from station, and a pine tree bears approximately northeast from the cedar post and 22.9 meters (75.1 feet) therefrom.

Barnes (Dorchester County, F. W. Perkins, 1898).—On the west shore of Taylors Island, on meadow land belonging to a Mr. Barnes, 6 paces north of a fence leading from house lot to shore, and 12 paces east of a bank 2 feet high. Marked by two 4-inch draintiles placed one above the other with a nail in a stub at the surface, note 19.

Point of Rocks (Calvert County, F. W. Perkins, 1898; 1908).—On the western shore of Chesapeake Bay, on Point of Rocks, a high rocky point about 2½ miles northwest of Cove Point Light. Station is in dense woods on a bluff about 90 feet high, 5 yards west of edge at extreme point, 8 yards south of edge of bluff, and 5 yards northwest of edge of bluff. Station marked by two 6-inch drain tiles placed one above the other, the top of the upper tile being 6 inches below the surface of the ground. A live oak stub, 3½ inches in diameter, with its top even with the surface of the ground, has a 60d wire nail to mark the center. Reference mark is center of standard concrete monument of the Maryland Shell Fish Survey, note 16. It is 9.42 meters (30.91 feet) from station in azimuth 66° 43′. Other distances and azimuths are as follows: Center nail in blaze in 13-inch tree, 5.62 meters (18.44 feet), 46° 39′; nail in blaze in 9-inch tree, 4.16 meters (13.65 feet), 83° 09′; center nail in blaze in 13-inch tree, 5.64 meters (18.50 feet), 335° 53′.

Travers 2 (Dorchester County, D. B. Wainwright, 1897; 1908).—On the western shore of Taylor Island, about 4 miles south of James Point, about 4 feet above high water, about 15 feet north of a fence which runs east from the shore, and in a field which was formerly under cultivation, but in 1907 was covered with water bushes. Station mark is a granite post projecting above the ground, with cross lines running approximately north to south and east to west. This post is set in cement, and in the cement, 5 inches below the post, is centered a 2-ounce glass vial. Reference marks are the center of standard monument of the Maryland Shell Fish Survey, note 16, set 9.52 meters (31.23 feet) from the station, in azimuth 282° 40′, and a cross on a granite post projecting above the ground, one of the cross lines running toward Cove Point Light, set 9.41 meters (30.87 feet) from the station in azimuth 206° 53′. Other distances and azimuths from the station are as follows: Tangent of woods at water's edge, ½ mile, 149° 55′; near peak of two-story house, ¼ mile, 199° 38′; chimney of 1½-story house, ¼ mile, 222° 02′; near corner of small cabin, ¼ mile, 297° 47′; near chimney of house among trees, ½ mile, 327° 09′; near peak of small house, ¾ mile, 331° 09′.

Flag Pond (Calvert County, D. B. Wainwright, 1897; 1908).—On the western shore of Chesapeake Bay, 3¼ miles north-northwest of Point of Rocks and about 3½ miles southeast of Governors Run, on sand and grass land between bay shore and swamp, 5 feet above high water, 35 yards south of shore, 20 yards northwest of shore, 9 yards northwest of cedars, 10 yards west of cedars and bushes, 25 yards west of shore, and 10 yards northeast of a swamp. The station was originally marked by a concrete post with galvanized-iron core, note 20; above this is a spike in cement in a stovepipe 4 inches in diameter and 1 foot long. The reference station is center of standard cement monument of the Maryland Shell Fish Survey, note 16, 9.02 meters (29.59 feet) from the station in azimuth 92° 26′. Distances and azimuths to other reference marks are as follows: Spike in blaze in cedar tree, 14.88 meters (48.8 feet), 89° 40′; spike in blaze in cedar tree, 18.48 meters (60.6 feet), 120° 30′; spike in blaze in cedar tree, 8.80 meters (28.9 feet), 227° 47′; spike in blaze, 13.56 meters, 318° 03′.

Parker (Calvert County, F. W. Perkins, 1898; 1908).—On the western shore of Chesapeake Bay, about 2 miles north of Governors Run Wharf and 2½ miles south of Dares Wharf, on land belonging to Mr. Weems. The station is about 100 feet above high water, 10 yards west of edge of bluff, 50 yards north of small stream in deep gully, and 25 yards east of cultivated field back of a growth of locust trees. The land slopes rapidly to the small stream from a point about 10 yards south of the station. Station mark is nail in center of tile pipe filled with cement. Reference mark is center of standard cement

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monument of the Maryland Shell Fish Survey, note 16, set 23.29 meters (76.4 feet) from station in azimuth 96° 15′. Other distances and azimuths are as follows: Nail in blazed locust tree, 8.19 meters (26.87 feet), 123° 00′; east end of Dares Wharf, 3¼ miles, 187° 06′; east end of Governors Run Wharf, 1¼ miles, 334° 31′.

Hog 2 (St. Marys County, F. W. Perkins, 1898; 1908).—On the southern shore of the entrance to Patuxent River, on Hog Point, about 1⅞ miles west-northwest of Cedar Point Light. Station is on a sand beach at high-water mark, 30 yards northwest of point of woods, and 200 yards north-northeast of nearest shore of Parsons Creek. Station is marked by a spike set in cement in top of a 6-inch tile pipe with top 1 foot below surface of ground. Beneath this pipe and concentric with it is another tile pipe. Reference mark set in 1908 is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is on a point of high land, and 33.35 meters (109.4 feet) from station in azimuth 317° 38′. Distances and azimuths from the station of other points of reference are as follows: Cabin on opposite side of Parsons Creek, ¾ mile, 2° 21′; chimney on Susquehanna farm house, 1 mile, 60° 20′; steeple of Vale's house at Avondale, 3½ miles, 110° 11′; chimney of cabin on opposite shore, 1½ miles, 141° 36′; nail in blaze in pine tree, 29.58 meters (97.0 feet), 320° 19′.

Carroll 2 (St. Marys County, F. W. Perkins, 1898; 1908).—On the south side of Patuxent River, about 1 mile south-southwest of Hog Point and about 1 mile south of Drum Point Light, on a sandy clay bluff in a cultivated field, about 50 feet above high-water mark, 4 feet south of top edge of bluff, 180 yards east of trees and ravine beyond cultivated field, 60 yards west of trees and ravine beyond cultivated field, 300 yards north of large square chimney on old-fashioned farmhouse, and 250 yards north of large tree to right of farmhouse. Station marked by two 5-inch tile pipes placed one above the other, the top of the upper tile being 8 inches below surface of ground. Reference station set in 1907 consists of a 6-inch tile pipe set bell end down with top 6 inches below surface of ground; in the east side of top a nail is set in cement; it is 14.64 meters (48.0 feet) from station in azimuth 346° 40′. Reference mark set in 1908 is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top 9 inches below surface of ground; it is 13.32 meters (43.7 feet) from station in azimuth 54° 30′. Distances and azimuths from the station of other points of reference are as follows: Large tree, 250 yards, 5° 48′; center of four-sided roof on Doctor Marsh house, 2¼ miles, 114° 38′; silver tip on tower of Vale house, 3 miles, 122° 55′; chimney of Bowen house, 2 miles, 133° 56′; left tree on Hog Point, 1 mile, 248° 40′; right of bushes at edge of ravine, 75 yards, 308° 40′; 12-inch tree, ⅛ mile, 331° 28′; 20-inch tree, ⅛ mile, 350° 05′; chimney of Susquehanna farmhouse, 300 yards, 358° 50′.

Hard (Calvert County, F. W. Perkins, 1898; 1907).—On the western shore of Chesapeake Bay, on the highest point of a cliff which rises abruptly from both north and south, about 1 mile south of Plum Point Landing, on land belonging (in 1907) to Mrs. H. M. Wilson. The next high hill to the south is covered with an extensive peach orchard. The land at the station is cultivated on alternate years. The station is 3.7 meters (12 feet) west from a wire fence and 4.5 meters (15 feet) from the edge of the cliff. The underground mark consists of two hexagonal draintiles of black earthenware, about 14 inches long, placed one directly above the other, and embedded in an envelope of cement about 2½ inches thick. The top of the upper tile is 3 feet below the surface of the ground. The surface mark is a 6-inch terra-cotta draintile, set bell end up flush with the ground, and filled with and surrounded with concrete. A reference mark similar to the above center mark, except that the underground mark consisted of only one draintile, was placed on range with (away from) Sharps Island Light, and 11.04 meters (36.2 feet) from the station.

Sharp south (Dorchester County, F. W. Perkins, 1898; 1900).—On the southern end of Sharps Island, 105 paces from head of pier in line with *Cook* triangulation station, 31 paces from the water to the east, and 17 meters from hard land to the north. Marked by two 4-inch draintiles placed one above the other, and a nail in a stub at the surface, note 19.

Sharp north (*Dorchester County, F. W. Perkins, 1898; 1900*).—*On the north*ern end of Sharps Island, in a field that has been under cultivation, 29 paces north from the site of an old barn, 12 paces south from a 4-foot bluff, and 24 paces west from a 6-foot bluff. A large holly tree, 3.12 feet in diameter,

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is 120.57 feet from the station in bearing S. 72° W. Marked by two 4-inch draintiles placed one above the other, and a nail in a stub at the surface, note 19. In 1900 the bluff was washing away rapidly and the station was liable to be destroyed soon.

Cooks Point 2 (Dorchester County, F. W. Perkins, 1898; 1902).—In an old cultivated field, 17 paces from bluff on northwest corner of Cooks Point, in line of old fence filled with locust trees, 27 paces from its junction with a fence running south, and 25 paces from a large cherry tree. In 1902 it was reported that the bluff was rapidly washing away and the station liable to destruction. No record of station marks.

Ill (Calvert County, F. W. Perkins, 1898).—On the west shore of Chesapeake Bay, about 2 miles north of Plum Point, on the highest point of a very high bluff. Going along the shore to the north the land rises very steeply, and the station is just at the top of the hill. The fishermen land their boats at the foot of the hill on the narrow beach. The station is inside the wire fence running along the edge of the bluff and 15 feet distant from the fence. The land is used for pasture. No record of station marks.

Poplar 2 (Talbot County, F. W. Perkins, 1898).—On the lower or southern point of the main part of Poplar Island, 12 paces from a 2-foot bank, and 30 paces from Poplar Island Harbor. The underground mark is two 4-inch drain tiles placed one above the other, note 19. The surface mark is a 4-inch pine stub with nail in center and top flush with ground.

Sinker (Talbot County, F. W. Perkins, 1898).—On the western shore of Poplar Island, on a sand-covered marsh, 33 feet from sand beach. A large, lone pine covered with vines is 161.8 feet from the station in bearing S. 42° E. The underground mark is two 4-inch draintiles, note 19, and surface mark is a 4-inch pine stub with nail in center and top flush with ground. Reported lost in 1903.

Fairhaven 2 (Anne Arundel County, F. W. Perkins, 1898; 1906).—On the western side of Herring Bay, on a prominent bald hill, about ¼ mile back from shore and ¾ mile west by north of Fairhaven Wharf. On the north side of road running from Fairhaven Hotel to Friendship and 44 feet east of fence running N. 3° E. The station was marked by two 4-inch draintiles and a nail in the center of a 4-inch pine stub, note 19. The reference mark is the center of standard cement monument of the Maryland Shell Fish Survey, note 16, 6.08 meters (19.95 feet) from station in azimuth 199° 18′. A nail in a blaze on a lone chestnut tree (3 feet in diameter) is 20.78 meters (68.2 feet) distant in azimuth 194° 05′. Other distances and azimuths are as follows: Post of rail fence, 14.53 meters (47.7 feet), 88° 33′; cupola on Fairhaven Hotel, ½ mile, 253° 12′; east chimney of yellow house, ½ mile, 258° 34′; west peak of Fairhaven wharf house, 1 mile, 306° 17′; chimney of small house close to shore, ½ mile, 320° 53′.

Punch (Dorchester County, F. W. Perkins, 1898).—On the eastern shore of Chesapeake Bay, on northern end of Meekin Neck, on land belonging to Mr. Tiel. Station is 19 paces south from fence, 13 paces from 4-foot bluff, and 6 paces from small washout. North chimney of Tiel's house bears N. 14° E. The station is marked by two 4-inch tile pipes, the top of the upper one 7 inches below surface, and a nail in a 4-inch stub flush with the surface, note 19. Two reference marks were set in range with a large persimmon tree, which is N. 44° E. 76.62 meters (251.4 feet) from the station. They are marked the same as the station and are 14.97 meters (49.1 feet) and 29.97 meters (98.3 feet) from it.

Tar (Dorchester County, F. W. Perkins, 1898; 1901).—On the eastern side of Chesapeake Bay, on the southern end of marsh island and about 1 mile north of north end of Barren Island. Marked by a draintile pipe filled with cement, with 3-inch stub in center. A reference stub was set in 1901 a distance 4.88 meters (16.01 feet) from station on bearing S. 46° E. In 1901 the station was within 10 inches of edge of bank and high-water mark.

Mint (Dorchester County, F. W. Perkins, 1898; 1910).—On eastern shore of Tar Bay, on Charity Point, at north side of entrance to Fishing Creek, about ⅝ mile west of Fishing Creek bridge, and 1⅝ miles east of north end of Barren Island. Station is on a shell bank about 4 feet above high water, 2 yards east of shore, 11 yards southwest of small wild cherry tree, 13 yards west-southwest of another small wild cherry tree, and just west of a dense growth of small trees and brush. Station marked by two 4-inch tile pipes set

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one above the other, 2 inches apart, the top of the upper tile being 7 inches below the surface of the ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 21.85 meters (71.7 feet) from station in azimuth 232° 05′. Distances and azimuths from the station of other points of reference are as follows: Near peak of house, 1½ miles, 36° 41′; chimney on outside of near end of two-story house, 1½ miles, 42° 42′; chimney on shanty, 1½ miles, 51° 26′; tangent of north end of Barren Island, 1½ miles, 90° 36′; red beacon, 1½ miles, 101° 01′; black beacon, 1½ miles, 102° 14′; nail in blaze in 3-inch wild cherry tree, 10.34 meters (33.9 feet), 211° 56′; nail in blaze in 5-inch wild cherry tree, 11.86 meters (38.9 feet), 245° 26′; left chimney of large two-story house, ⅞ mile, 334° 43′; chimney on middle of house, 1½ miles, 346° 28′:

South (Dorchester County, C. C. Yates, 1900; 1910).—On the eastern side of Chesapeake Bay, on the western shore of Barren Island, about 4¾ miles north of Hooper Island Light and 6 miles east of Cedar Point Light, on a sandy marsh about 1 foot above high water and 4 yards east of a rapidly washing shore. Center marked by nail in a cedar stub about 8 inches in diameter and 4 feet long with top projecting about 20 inches above surface of ground. One reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, the center of the triangle being 101.21 meters (332.1 feet) from station in azimuth 252° 41′. Another reference mark, called *South secondary*, is a cedar stub similar to that at the center except that the top was burned until only 3 inches projected above the ground; it is 100.25 meters (328.9 feet) from the station on line with the standard reference mark. A dead pine tree is 90 yards from the station in azimuth 338° 47′.

North (Dorchester County, C. C. Yates, 1900; 1910).—On the eastern side of Chesapeake Bay, on the western shore of Barren Island, about ⅝ mile south of north end of island and 7 miles east-southeast of Cove Point Light, on hard land surrounded by water bushes and scrub pines, about 2 feet above high water, and 50 yards east-southeast of point where three large pines stand near shore. Center marked by the central one of four nails driven in cedar post 8 inches in diameter and 4 feet in length, top projecting about 8 inches above the surface of the ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, 48.71 meters (159.8 feet) from station in azimuth 252° 39′. A second reference mark called *North secondary* is a cedar stub similar to the one at the center, except that it projects 18 inches above the ground; it is on line with the cement reference mark and is 49.95 meters (163.9 feet) from the station. Four pine trees were blazed and nails driven in each blaze; the trees were of the following diameters, and the nails at the following distances and azimuths from the station: 6-inch pine, 8.18 meters (26.84 feet), 190° 50′; 8-inch pine, 14.15 meters (46.4 feet), 232° 09′; 5-inch pine, 9.99 meters (32.78 feet), 248° 28′; 5-inch pine, 5.98 meters (19.62 feet), 302° 02′.

North secondary (Dorchester County, C. C. Yates, 1900).—On eastern side of Chesapeake Bay, on northern end of Barren Island, 50 meters from station *North* (see index) in azimuth 252° 40′. Marked by a cedar post 4 feet long and 8 inches in diameter, projecting about 8 inches above surface of ground. Top of post is marked by three copper nails arranged in form of triangle with fourth nail at center.

South secondary (Dorchester County, C. C. Yates, 1900).—On eastern side of Chesapeake Bay, on western side and a little south of middle of Barren Island, and 106.6 meters (349.7 feet) from station *South*, in azimuth 252° 40′.

Wilson 2 (Calvert County, D. B. Wainwright, 1897; 1908).—On the western shore of Chesapeake Bay, about 5 miles northwest of Cove Point Light, on a sand bluff about 80 feet above high water, 30 yards south from one edge of the bank, 15 yards southwest from another edge of bank, 20 yards northwest from point where decline begins toward southeast, and 3 yards south of cultivated land. The station was marked by a ¼-inch galvanized wire set in the top of a cement post about 6 inches square with top 6 inches below surface of ground, note 20. Reference station is the center of standard cement monument of the Maryland Shell Fish Survey, note 16, projecting 6 inches above the ground, and 1.56 meters (5.12 feet) from the station in azimuth 268° 28′. The azimuth of the near corner of the near chimney of the Wilson house, distant ¼ mile, is 25° 56′; and of the peak of a barn, distant ½ mile, is 60° 19′.

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Wilson 3 (Calvert County, F. W. Perkins, 1898).—On the western shore of Chesapeake Bay, about 5 miles above Cove Point. Station probably marked with tile pipe.

Pat (Calvert County, F. W. Perkins, 1898; 1908).—On the western shore of Chesapeake Bay, on Little Cove Point, about 1¾ miles south by west of Cove Point Light, on the highest point of a thickly wooded bluff, about 75 feet above high-water mark, 4 yards west of edge of bluff, and 15 yards southwest of extreme point. Station marked by a 4-inch tile pipe with top 12 inches below surface ground. Inside the tile and set in cement is a 3-inch stake with top 4 inches above ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 24.57 meters (80.6 feet) from station in azimuth 71° 26′. Distances and azimuths to other points of reference are as follows: Spike in blaze in 5-inch tree, 6.54 meters (21.46 feet), 80° 57′; spike in blaze in 5-inch tree, 3.42 meters (11.22 feet), 100° 16′; spike in blaze in 17-inch tree, 12.26 meters (40.2 feet), 125° 00′; spike in blaze in 13-inch tree, 5.50 meters (18.04 feet), 167° 52′.

Rail (Calvert County, F. W. Perkins, 1898; 1900).—On western shore of Chesapeake Bay, about 3 miles south of Holland Point, at south end of Chesapeake Beach resort. Station is back from shore on a high bluff and near a shanty. Marked by two 6-inch tile pipes, one above the other, and a 4-inch pine stub with top flush with ground, note 19.

Blake 2 (Calvert County, F. W. Perkins, 1898; 1907).—On the western side of Chesapeake Bay, about midway between Plum Point and Hog Island, about 1¾ miles south of Chesapeake Beach, on the highest hill in the vicinity (171 feet elevation). It is about 80 meters from the main road and about 100 meters from a small house at the east side of the road, occupied in 1907 by Phil Brown. The ground around the station is covered with a growth of young pines, in 1907 about 3 inches in diameter. Lines of sight were cut through this growth of pines along the following azimuths: 204°, 316°, and in the direction of Sharps Island Lighthouse. Station probably marked by two 6-inch tile pipes, set one above the other, and a 4-inch pine stub, note 19. In 1907 a reference mark was set close to the fence west of the station and on range with Sharps Island Lighthouse. This mark consists of a draintile embedded in cement, its top flush with the ground. It is 52.78 meters (173.2 feet) from the station.

Mill (Dorchester County, F. F. Weld, 1900; 1902).—On southern side of Tripps Bay, on Mills Point, on high ground near north end of point, 3 paces from inside bluff and 9.60 meters (31.5 feet) north of lone oak tree at north end of point. Marking not known.

Paw (Talbot County, F. W. Perkins, 1898; 1900).—On the eastern side of Chesapeake Bay and on western side of Tilghman Island, on point of land about ⅛ mile above the entrance to small inside cove of Paw Paw Cove, 112 meters east by north from end of point and 86 meters from cove. Station marked by two 4-inch tile pipes, set one above the other, the top tile being about 7 inches below surface of ground and a 4-inch pine stub with nail even with surface of ground, note 16. The reference mark is a nail in a locust post 18 inches long, projecting 7 inches above surface of ground. It is on lowland, 1 meter from edge of plowed field, and in brush line near marsh, 56 paces from a lone pine tree. It is 31.95 meters (104.8 feet) from station in azimuth 255° 49′.

Force (Talbot County, F. W. Perkins, 1898; 1900).—On eastern shore of Chesapeake Bay, on sandy land, at the edge of a pine thicket, 2 feet back from edge of a washing bank and ⅛ mile from the entrance to Force Creek. Station marked by two 4-inch tile pipes, one above the other, the top of the upper tile being about 7 inches below surface of ground and a 4-inch pine stub with nail even with surface of ground, note 19. Reference mark is nail in a 3-inch cedar post, 23.09 meters (75.8 feet) from station in azimuth 123° 06′. The reference post is among small pine trees on Force Point, 5 paces southwest of a large pine tree, with rough triangle cut in its side.

Dare 2 (Calvert County, C. M. Sparrow, 1907; 1908).—On the western side of Chesapeake Bay, on the first cliff south of and 200 meters distant from Dares Wharf. The station is halfway between a wire fence running north and south and the cliff edge, being 2.6 meters from each. To the south distant 18.2 meters is a wire fence running east and west and about 60 meters north is another east-and-west wire fence. Station probably marked underground by two hexagonal draintiles set one above the other, the top of the upper tile

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being 3 feet below the surface. The surface mark is probably a 6-inch tile pipe set in cement with top even with surface of ground. A nail in top marks the center, and the letters "U. S. C. & G. S. 1907" are roughly marked in the cement. The reference mark is probably similar to the surface mark, except that only one tile was used in the subsurface mark. It is in range with Sharps Island Lighthouse and is distant 18.24 meters from the station.

Pen (Calvert County, C. M. Sparrow, 1907; 1908).—On the western shore of Chesapeake Bay, about halfway between Plum Point and Governors Run, on the outer end of Dares Wharf, about 30 yards from extreme end, 12 yards west of the warehouse, and 1 yard north of south side of wharf. Station marked by auger hole in plank flooring surrounded by a triangle marked with nails. The following distances and directions are from the station: Southwest corner of warehouse, 11.10 meters (36.4 feet), east by south; inside corner of angle in wharf, 5.09 meters (16.70 feet), east by south; south edge of wharf, 0.95 meter (3.12 feet), south; south rail of straight track at point of frog, 2.13 meters (6.99 feet), north; south rail of curved track, 0.90 meter (2.95 feet), north; north edge of wharf, 4.15 meters (13.62 feet), north; southwest corner of cattle pen, 7.12 meters (23.36 feet), northeast; southeast corner of cattle pen, 9.63 meters (31.59 feet), northeast by north; northwest corner of warehouse, 12.80 meters (41.99 feet), northeast by north.

Patch (Calvert County, C. M. Sparrow, 1907; 1908).—On the western shore of Chesapeake Bay, about 1 mile south of Dares Wharf, on a high bluff, about 65 yards back from its edge. Station is in a cultivated field and on a high knoll, and from it the land slopes away in all directions. A locust thicket stands northwest of the station. Station mark is nail in cement in top of a tile pipe buried with top about 15 inches below surface of ground. In the original marking there were two hexagonal draintiles set one above the other with the top of upper tile 3 feet below surface. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 9.07 meters (29.76 feet) from station in azimuth 127° 28′. Distances and azimuths to other points of reference are as follows: East end of Governors Run Wharf, 1½ miles, 343° 36′; east end of roof of barn, 1 mile, 26° 04′; nail in blaze in locust tree, 11.93 meters (39.1 feet), 80° 57′; nail in blaze in locust tree, 12.04 meters (39.5 feet), 96° 42′; east peak of large barn on hill, ½ mile, 127° 53′; east end of Plum Point Wharf, 3½ miles, 187° 29′.

Rob (Calvert County, C. M. Sparrow, 1907; 1908).—On the western shore of Chesapeake Bay, about 1 mile south of Dares Wharf, in the yard of the house occupied (in 1907) by a Mr. Robinson. The land in the vicinity of the ice house is the highest in the vicinity, and the barn has a sharp gable and is visible for miles around. The station is between the barn and the ice house, nearer the ice house, and somewhat south of it. South of the station are several good-sized locust trees, the nearest of which is marked with a triangle and nail and is distant from the station 7.40 meters (24.28 feet). The station is marked by a single drain tile, set flange down and filled with and embedded in cement. From the station the distances to the eaves of the ice house are S. W. 3.92 meters (12.9 feet); N. W. 7.18 meters (23.56 feet); and the corners of the barn S. E. 16.22 meters (53.2 feet); S. W. 20.67 meters (67.8 feet).

Holland 3 (Calvert County, C. M. Sparrow, 1907; 1908).—On the western shore of Chesapeake Bay, about halfway between Herring Bay and Chesapeake Beach, on Hog Point, near end of boundary line between Calvert and Anne Arundel Counties. Station is about 5 feet above high water, on a narrow strip of solid land 25 yards by 10 yards in size between edge of large marsh and bay shore, about 60 yards north of point where the shore line changes direction from north and south to northeast and southwest. Station is about 4 yards west of bay shore, 4 yards east of top edge of hummock near marsh, 7 yards east of edge of marsh, 9 yards north-northwest of point of hummock, and 18 yards south by west of point of another hummock. Station marked underground by two hexagonal drain tiles about 14 inches long set one above the other and embedded in cement; the top of the upper tile is 3 feet below the surface of the ground. Surface mark is 6-inch tile pipe set in cement with top flush with ground. A nail in top marks center, and the letters "U. S. C. & G. S. 1907" are roughly marked in the cement. Reference mark set in 1907 similar to the center mark, except that only one tile was used in the subsurface mark. It is 11.13 meters (36.5 feet) from station in azimuth 196° 33′. Reference mark of 1908 is center of standard cement monument of Maryland Shell Fish Survey,

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note 16; it is 2.13 meters (6.99 feet) from station in azimuth 80° 38′. Distances and azimuths to other points of reference are as follows: Flagstaff on center of carrousel roof, 1⅝ miles, 6° 03′; large brick chimney, 2 miles, 16° 48′; water tank, 2 miles, 17° 59′; nail in blaze in 16-inch white oak, 6.32 meters (20.73 feet), 79° 54′; nail in blaze in 18-inch pin oak, 7.98 meters (26.18 feet), 131° 32′; nail in blaze in 16-inch pin oak, 17.65 meters (57.9 feet), 177° 28′; nail in blaze in 18-inch pin oak, 21.96 meters (72.0 feet), 191° 16′; left tangent North Chesapeake Beach Wharf, ¾ mile, 359° 30′.

Ill 2 (Calvert County, C. M. Sparrow, 1907; 1908).—On the western shore of Chesapeake Bay, about 2¼ miles south of Chesapeake Beach, and 2¾ miles north of Plum Point, in a cultivated field, on the highest point of a bluff which rises abruptly from the south. At the foot of the bluff is a landing for small boats, sometimes used as a lumber-shipping point. Station is about 12 feet west of edge of bluff, 100 yards south of a fence and trees running east and west, and 7 feet west of wire fence along edge of cliff. Station marked underground by two hexagonal drain tiles placed one above the other, the top of the upper tile being 3 feet below surface of ground. Surface mark is 6-inch tile pipe set in cement with top flush with surface of ground. A nail in top marks the center, and the letters "U. S. C. & G. S. 1907" are roughly marked in the cement. Reference of 1907 mark is similar to the station mark except that only one tile was used for subsurface mark, and the surface mark is 6 inches below the ground, cement covering it to the surface. It is 16.80 meters (55.1 feet) from station in azimuth 97° 21′. Reference mark of 1908 is center of standard cement monument of Maryland Shell Fish Survey; it is 23.83 meters (78.2 feet) from station in azimuth 80° 43′. Distances and azimuths from the station to other points of reference are as follows: New gable of unpainted barn, ¾ mile, 22° 19′; left chimney of four-gabled house, 1 mile, 34° 06′; north gable of small barn, ½ mile, 44° 45′; center chimney of white house, ¾ mile, 58° 03′; east gable of unpainted barn, ⅝ mile, 81° 40′; chimney on outside of old house, 1 mile, 87° 11′; south gable of house at North Beach, 2½ miles, 177° 59′; tangent of land to south, 1¼ miles, 340° 09′.

Plum 3 (Calvert County, C. M. Sparrow, 1907; 1908).—On the western shore of Chesapeake Bay, about 1¼ miles north by west of Plum Point Wharf and about ½ mile north by west of Plum Point. Just south of the station is a salt marsh with several creeks running through, the station being on the first high cliff north of the marsh. Station is 7 yards west of edge of bluff, and 12 yards south of rail fence, with line of bushes and cedar trees. Station marked by two hexagonal drain tiles placed one above the other, the top of the upper tile being 3 feet below surface of ground. Surface mark is 6-inch tile pipe set in cement with top flush with ground. A nail in top marks the center, and the letters "U. S. C. & G. S. 1907" are roughly marked in the cement. The reference mark of 1907 is similar to the station mark except that only one tile was used in the subsurface mark; it is on a fence line and 14.23 meters (46.7 feet) from station in azimuth 114° 43′. Reference mark of 1908 is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 14.03 meters (46.0 feet) from station in azimuth 81° 43′. Distances and azimuths to other points of reference are as follows: Chimney outside north end of house, 1¼ miles, 21° 53′; southwest peak of barn, ¾ mile, 51° 58′; right tangent Chesapeake Beach Wharf, 4¾ miles, 175° 27′; outer end of Plum Point Wharf, 1¼ miles, 339° 44′.

Beach (Calvert County, C. M. Sparrow, 1907; 1908).—On the western shore of Chesapeake Bay, about 1 mile south of Chesapeake Beach, and ½ mile south of the first marshy slough south of Chesapeake Beach. Station is about 110 feet above high water and 7 yards back from the edge of highest bluff in the vicinity. The ground falls away rapidly to the southwest and west of the station, and is covered with brush and small locust trees. A cultivated field extends to within 10 yards of the station on the northwest. In 1907 a vista was cleared in the direction of station Blake, azimuth 24° 05′; this involved the cutting of some large trees. Station marked underground by two hexagonal drain tiles placed one above the other, the top of the upper tile being 3 feet below the surface of the ground. Surface mark is a 6-inch tile pipe set in cement with top flush with the ground. A nail in top marks center, and the letters "U. S. C. & G. S. 1907" are roughly marked in the cement. Reference mark of 1907 is same as station mark except that only one tile was

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used in the subsurface mark. It is 10.25 meters (33.6 feet), from station in azimuth 105° 08′. Reference station of 1908 is center of triangle on standard cement monument of Maryland Shell Fish Survey, note 16; it is 11.40 meters (37.4 feet), from station in azimuth 94° 55′. Distances and azimuths from the station of other points of reference are as follows: Nail in blazed locust tree, 8.47 meters (27.79 feet), 112° 53′; near gable of house, 1 mile, 166° 11′; High View Hotel, ½ mile, 167° 52′; cupola at Chesapeake Beach, ¾ mile, 170° 59′; flagpole of "merry-go-round" at Chesapeake Beach, ¾ mile, 176° 39′; left corner of house at North Chesapeake Beach, 2 miles, 181° 21′; outside end of wharf at North Chesapeake Beach, 2 miles, 183° 40′; outside end of wharf near Chesapeake Beach, 1 mile, 201° 12′; nail in blazed locust tree, 16.85 meters (55.3 feet), 344° 03′.

Basford (Calvert County, C. M. Sparrow, 1907).—On the western side of Chesapeake Bay, about ¼ mile south of Plum Point wharf, on land belonging to Jackson Basford. Station is on the high part of the south end of the first high hill south of Plum Point Wharf; this hill is a hogback running north-and-south. Station is some distance back from edge of cliff. Station marked underground by two hexagonal drain tiles set one above the other, the top of the upper tile being 3 feet below surface of ground. Surface mark is 6-inch tile pipe set in cement; a nail in top marks the center, and the letters "U. S. C. & G. S. 1907" are roughly marked in the cement. The reference mark is similar to the station mark except that only one tile was used in the subsurface mark. It is in range with a large new barn northwest of the station on the farm of William Hodester. The following azimuths are from the station: Chimney of Hance's house, 29° 11′; north chimney of Wilson's house, 54° 37′; lightning rod on Basford's house, 81° 02′; north chimney Wilbern's house, 103° 11′; south chimney Hutchin's house, 155° 51′; lightning rod of Mrs. Carpenter's house, 188° 07′.

Pier (Calvert County, C. M. Sparrow, 1907; 1908).—On the western shore of Chesapeake Bay, about south-southeast of Plum Point, on outer end of wharf at Plum Point Landing. It is about 20 yards from extreme end of wharf and nearly on line with the northern side of the warehouse. Station mark is auger hole bored in plank flooring and surrounded by triangle marked with nails. The following distances and directions are from the station: Northeast corner of calf pen, 6.68 meters (21.92 feet), southeast; northwest corner of calf pen, 4.48 meters (14.70 feet), south-southeast; rail fence on south edge of wharf, 2.03 meters (6.66 feet), south; prolongation of line of north side of warehouse, 0.11 meter (0.36 foot), north; south rail of wharf track, 0.92 meter (3.02 feet), north; north rail of wharf track, 2.36 meters (7.74 feet), north; north side of wharf, 3.39 meters (11.12 feet), north; west side of warehouse, 8.60 meters (28.22 feet), east.

Franklin (Anne Arundel County, C. C. Yates, 1906).—On the western shore of Chesapeake Bay, on Franklin Point, about halfway between West River and Herring Bay, on a low point covered with tufts of marsh grass, situated between the marsh and the shore. Station is just at high-water mark and about 80 yards in front of the northeast point of a round grove of small oak trees. Center was marked by a nail in a pine stub flush with the ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 6.36 meters (20.87 feet), from the station in azimuth 110° 03′. Other distances and azimuths are as follows: A 12-inch black oak tree at southeast point of round grove of trees, 100 yards, 53° 05′; a 24-inch white oak tree abreast of station, 80 yards, 84° 10′; peak of small white shanty, ¾ mile, 177° 24′; south peak of yellow house back of Horseshoe Point, 1½ miles, 188° 37′.

Nut (Anne Arundel County, C. C. Yates, 1906).—On the western shore of Chesapeake Bay, about ¾ mile northeast of the mouth of Broadwater Creek, on a low marshy point, about 50 feet west of its extreme eastern end. A large brick house stands on edge of woods, about ¼ mile northwest of station. Center marked by nail in pine stub flush with surface of ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 13.40 meters (44.0 feet) from station in azimuth 114° 05′. Other distances and azimuths were as follows: Peak of white barn on south side of Broadwater Creek, 1½ miles, 54° 35′; north chimney of brick house, ¼ mile, 127° 23′; east peak of old barn, ¾ mile, 184° 18′.

Holland (Anne Arundel County, C. C. Yates, 1906).—On the western shore of Chesapeake Bay, on the south side of the entrance to Herring Bay, about 30

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yards west of Holland Point. Station is 5 feet back from top of a 7-foot bank. Center marked by nail in pine stub flush with ground. Reference station is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 12.88 meters (42.3 feet) from station in azimuth 33° 52′. A nail in a blaze on 30-inch red oak true is 11.17 meters (36.6 feet) from station in azimuth 10° 36′; and a nail in another 30-inch red oak tree is 22.63 meters (74.2 feet) from station in azimuth 58° 42′.

Broad (Anne Arundel County, C. C. Yates, 1906).—On the western shore of Chesapeake Bay, on the south side of entrance to Broadwater Creek, on the extreme north end of a narrow neck of land between the creek and the bay. About 25 feet back from edge of a bank 4 feet high. A number of cedar trees stand 20 yards northwest of the station. Center marked by a nail in a pine stub flush with the ground. Reference point is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 13.29 meters (43.6 feet) from the station in azimuth 127° 56′. Other distances and azimuths are as follows: North chimney of house across Broadwater Creek, ½ mile, 64° 35′; chimney on house (opposite shore), 300 yards, 123° 38′; nail in blaze on cedar tree, 21.10 meters (69.2 feet); nail in blaze on 12-inch cedar tree on edge of bank, 30.25 meters (99.2 feet), 152° 21′; east chimney of brown house (opposite shore), ½ mile, 158° 33′.

Parker (Anne Arundel County, C. C. Yates, 1906).—On the western shore of Chesapeake Bay, on the north side of the entrance to Herring Bay, on a small detached sand island south of Parker Island, about 25 yards from the extreme south end and just above the high-water mark. Center marked by nail in pine stub flush with ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 5.57 meters (18.27 feet) from station in azimuth, 179° 41′. Other distances and azimuths are as follows: Chimney on white house, 1 mile, 76° 14′; chimney on small house, ¼ mile, 110° 53′; west chimney on small white house, ¼ mile, 132° 32′; west chimney on red-roof house, ½ mile, 143° 54′; east chimney on red-roof house, ¼ mile, 162° 15′.

Hopkins (Anne Arundel County, C. C. Yates, 1906).—On the north side of Herring Bay, on east side of entrance to Herring Creek, and about 1½ miles north by west of Fairhaven Wharf. Station is 2 feet above and 15 feet back from high-water mark, and is nearly on line with south face of house standing just east of the station. Center marked by nail in stub flush with ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. It is 5.15 meters (16.90 feet) from the station in azimuth 133° 13′. Other distances and azimuths are as follows: Chimney on small house (opposite shore), ¼ mile, 43° 53′; south chimney on white house (opposite shore), ¼ mile, 120° 49′; south chimney on yellow house (opposite shore), ¼ mile, 129° 28′; west chimney on small white house, 150 yards, 152° 05′; northwest corner of house, 16.39 meters (53.8 feet), 199° 47′; southwest corner of house, 15.17 meters (49.8 feet), 219° 39′.

Wap (Talbot County, C. C. Yates, 1909).—On the eastern shore of Chesapeake Bay, on a point about 4¾ miles north by east of Sharps Island Light and 1 mile south of Knapps Narrows. On a point about 3 feet above high water, 56 yards east of extreme end of point, 68 yards north by east of shore, 83 yards south by west of shore, and 3 yards west-northwest of edge of cultivated land. Station marked by center of standard cement monument of the Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch drain tile, note 17. Distances and azimuths to reference points are as follows: Nail in blaze on 6-inch pine tree, 32.99 meters (108.2 feet), 35° 01′; chimney of house, 1½ miles, 199° 16′; near peak of house showing over woods, ½ mile, 218° 05′; nail in blaze on 10-inch persimmon tree, 61.80 meters (202.8 feet), 281° 59′; nail in blaze on 5-inch persimmon tree, 61.23 meters (200.9 feet), 297° 14′; west peak of large house, ⅜ mile, 323° 31′; square cupola, 1 mile, 340° 24′; high cupola, 1 mile, 341° 09′; chimney on house with three side gables, ⅞ mile, 353° 53′.

Poplar south (Talbot County, C. C. Yates, 1909).—On the eastern side of Chesapeake Bay, on Poplar Island, on a point of land at southern side of Poplar Island Harbor, on a sandy marsh about 1 foot above high water, 7 yards west-southwest of shore of harbor, 16 yards east-northeast of bay shore, 60 yards north-northwest of extreme point of largest one of a group of islands known as Poplar Island, and 11 yards north of a lone pine tree.

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Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. The subsurface mark is center of a 2-inch drain tile pipe, note 17. Distances and azimuths to various points of reference are as follows: East peak of Howeth house, ⅝ mile, 156° 32′; lightning rod near east chimney of house, 1⅜ miles, 188° 19′; right chimney of Valliant house, ¾ mile, 207° 05′; left corner of left oyster house at Lowes Wharf, 2⅞ miles, 253° 47′; chimney of house, 2¾ miles, 261° 08′; nail in blaze in 12-inch pine tree, 10.89 meters (35.7 feet), 343° 55′.

Great (Talbot County, C. C. Yates, 1909).—On the eastern shore of Chesapeake Bay, on Great Marsh Point, about 1 mile east of the southeast end of Poplar Island, on a marsh point about 2 feet above high water, 40 yards east of shore, 40 yards southeast of shore, 50 yards northeast of shore, and 250 yards from woods. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. The subsurface mark is center of 2-inch drain tile pipe, note 17. The azimuth of right end of a house, distant 1 mile, is 308° 57′; of near peak of a house, distant ¼ mile, 337° 20′; and of chimney on house distant ¾ mile, 354° 09′.

Front (Talbot County, C. C. Yates, 1909).—On the eastern shore of Chesapeake Bay, about ¼ mile north of entrance to Front Creek, ⅞ mile north of Knapps Narrows, and 1½ miles southeast of southeast end of Poplar Island. Station is about 3 feet above high water, 13 yards north-northeast of shore, 18 yards southeast of shore, 25 yards east of extreme end of point, and near several dead trees. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch drain tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 5-inch pine tree, 14.54 meters (47.7 feet), 238° 53′; nail in blaze in 4-inch pine tree, 11.82 meters (38.8 feet), 289° 42′; nail in blaze in 4-inch pine tree, 11.95 meters (39.2 feet), 332° 41′; near peak of large barn, 1 mile, 350° 02′.

Dunnock (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Chesapeake Bay, about 2⅞ miles north-northwest of the north end of Barren Island, on a marsh about 1 foot above high water, 70 yards from shore in line with Cedar Point Light, 108 yards from shore in line with Cove Point Light, and 250 yards from a clump of woods known locally as "Cattle Island Woods." Station mark is the center of a 2-inch tile projecting 4 inches above the surface of the ground. The subsurface mark is the center of a 2-inch tile pipe with top 2 inches below base of surface pipe. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. It is nearly in line with Cove Point Light, being 35.18 meters (115.4 feet) from the station in azimuth 268° 14′. Other distances and azimuths are as follows: Near peak of barn, ½ mile, 205° 26′; chimney of house, ½ mile, 209° 21′; peak of barn, 1¼ miles, 277° 55′; chimney of house, 1½ miles, 293° 07′.

Poplar (Calvert County, C. C. Yates, 1908).—On the western shore of Chesapeake Bay, about 2 miles south of Governors Run Wharf, in a cultivated field about 60 feet above high water, 50 feet west from edge of bluff, 25 yards south of ravine which starts at shore, 115 yards north of where high cliff covered with trees commences to rise rapidly, and 30 yards from a large poplar tree on opposite side of a ravine with sycamore, cherry, and locust trees along its edge. Another bluff rises steeply on opposite side of ravine. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, underneath which is a subsurface mark consisting of a nail in a short stub. The following distances and azimuths are from the station: Chimney of house, 1 mile, 46° 06′; east peak of barn, 1¼ miles, 51° 18′; east end of Governors Run Wharf, 1½ miles, 156° 59′; chimney of white house above station "Parker," 2½ miles, 158° 26′; south peak of barn, 2¾ miles, 159° 28′; peak of unpainted barn, 3 miles, 165° 04′.

Run (Calvert County, C. C. Yates, 1908).—On the western shore of Chesapeake Bay, on Governors Run Wharf, a braced pole with cage on east peak of wharf house.

Bareda house cupola (Calvert County, F. W. Perkins, 1898; 1908).—On the north side of the Patuxent River, about ½ mile northwest of Drum Point Light, and on high land about 100 yards back from shore. Bareda house is a large three-story square mansion with square cupola, having three windows on each side and a porch entirely around building on first floor. Station is center of ornamental design of four brackets on center of cupola.

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White house, northeast chimney (Calvert County, F. W. Perkins, 1898; 1908).—On the western shore of Chesapeake Bay, about 1 mile southwest of Cove Point Light, and ¼ mile southwest of Cove Point Landing. Station is chimney standing alone near a small white house owned by Mrs. Hagland. *It is the more northeasterly* of two chimneys of a house which was destroyed by fire.

Cooks Point windmill (*Dorchester County*, F. W. Perkins, 1898; 1910).—On eastern shore of Chesapeake Bay, on Cooks Point, between Tripps Bay and Cooks Point Cove, and *about 1¼ miles southeast of the end of the point.* Station is center of a windmill over smaller and western one of two water tanks on barn on Cooks Point Farm.

PATUXENT RIVER

Sand (Calvert County, O. W. Ferguson, 1907; 1908).—On northeastern side of Patuxent River, on Sandy Point, the extreme southern point of Solomons Island, on pasture land, about 5 feet above high water, 30 yards north of extreme point of planking which protects shore from washing, 15 yards northeast of extreme edge of sand and grass line, and about 13 yards east of top of bank. Station mark is spike in southwest side of a 6-inch spruce pile with top 6 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, *note 16; it is 13.64 meters* (44.8 feet) from station in azimuth 182° 19′. Distances and azimuths to other points of reference are as follows: Near end of peak of roof of *Marburger house*, 1¾ miles, 129° 19′; Warren house opposite Johnson Store, ¼ mile, 165° 19′; small gable on south side of house of Clarence Davis, 36.05 *meters* (118.3 *feet*), 192° 21′; "K. of P." *flagstaff*, ¼ mile, 195° 55′; right chimney of Doctor Marsh house, ⅛ mile, 224° 35′; left end of peak of roof on 2½-story building at Pearsons, 2 miles, 315° 00′; chimney on *storehouse* at Millstone, 1¾ miles, 338° 15′; near point of gable of Hodgdon large house with square tower, 1½ miles, 357° 51′.

Craddock (St. Marys County, C. C. Yates, 1908).—On the southern shore of Patuxent River, about 2⅜ miles south-southeast of Drum Point Light, and ¼ mile west of Millstone Landing, on a lawn, about 15 feet above high water, about 10 yards from top edge of bank, 15 yards from bottom edge of bank and fence, 30 yards east of extreme edge of point, 30 yards northeast of trees along shore of pond, about 110 yards northwest of Craddock house and several outbuildings among poplar trees, 50 yards east of fence, and 70 yards west of driveway to house. Station mark is center of standard cement monument of *Maryland Shell Fish Survey*, note 16, with top flush with surface of lawn. Distances and azimuths from station of various points of reference are as follows: *Nail in 14-inch stump*, 5.35 meters (17.55 feet), 166° 41′; left tangent of woods on Carroll Point, 1¾ miles, 239° 07′; near end of peak of roof of 2½-story building at Pearsons, 1¼ miles, 259° 40′; chimney on hotel at Millstone, ½ mile, 282° 11′; 14-inch cottonwood tree, 80 yards, 286° 09′; chimney on roof of Craddock 2½-story house, 110 yards, 302° 42′.

Ben (St. Marys County, O. W. Ferguson, 1907; 1908).—On the southwestern shore of Patuxent River, about 1 mile south-southwest of Sandy Point, and 1¼ miles southeast of Town Point, on a clay and sand bluff, in a cultivated field, about 20 feet above high water, 10 feet west of edge of bank, 3 feet south of point covered with scrub pines, about 15 yards northeast of one edge of plateau, 10 yards southeast of another edge of plateau, about 65 yards north of point of woods, and 10 yards south of cut in bank which is washing rapidly. It is 120 meters below the outlet to a small lake. Station mark is 6-inch tile pipe filled with and surrounded by cement, its top flush with ground, and a large spike marking the center. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 8.42 meters (27.62 feet) from station in azimuth 56° 15′. A vitrified tile set in cement is at the edge of the brush and is 27.11 meters (88.9 feet) *from the station* in azimuth 23° 38′. Distances and azimuths from the station to other points of reference are as follows: Tall pine tree, 50 yards, 26° 42′; *nail in blaze in 4-inch pine* tree, 7.79 meters (25.56 feet), 60° 40′; nail in blaze in 4-inch pine tree, 8.77 meters (28.77 feet), 111° 48′; nail in blaze in 4-inch pine tree, 2.07 meters (6.79 feet), 124° 46′; *near end of peak of Marburger house*, 2 miles, 160° 19′; near end of peak of roof of large 2½-story building at Pearsons, 2¼ miles,

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287° 43′; near piazza post of Millstone Hotel, 1¾ miles, 304° 18′; chimney of Craddock house, 1¼ miles, 308° 35′; large chimney at the west end of an old house on the east edge of the field, 311.3 meters (1,021.3 feet), 345° 31′.

Crane (St. Marys County, C. C. Yates, 1908).—On the southwest side of Patuxent River, on northeast side of Town Creek, about ¼ mile southwest of Town Point, in a cultivated field, on Judge Crane's farm, about 8 feet above high-water mark, 58 yards east-northeast of Town Creek, 105 yards west of a fence, 115 yards west-northwest of a large cherry tree, 200 yards southeast of several detached buildings, and 20 yards east of top of ravine. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top 10 inches below surface of ground. Distances and azimuths from the station to various points of reference are as follows: Canning-house stack, ¼ mile, 14° 18′; house on point, ¼ mile, 42° 11′; chimney on house, ¾ mile, 101° 21′; lightning rod on cupola of Judge Crane's barn, ¼ mile, 133° 52′; right tangent of St. Cuthbert Wharf, 2¾ miles, 156° 59′; near end of peak of roof of Marburger house, ⅞ mile, 177° 40′; middle of gateway, ⅛ mile, 212° 14′; oak tree on opposite shore of Patuxent River, 1 mile, 216° 08′; stack on ice plant, 1¼ miles, 254° 16′; Methodist Episcopal Church tower, 1¼ miles, 259° 06′; 4-foot cherry tree, 115 yards, 288° 17′.

New (Calvert County, C. C. Yates, 1908).—On the northeast side of Patuxent River, about ¾ mile east of Point Patience, and about 1¼ miles northwest of Sandy Point, about 20 feet above high water, in the middle of a cultivated field on the Strathmore farm, about 230 yards northeast of shore of Patuxent River, about 82 yards southeast of a creek, about 162 yards northwest of small creek or ditch, 230 yards northeast of large oak tree, and 250 yards north of another oak tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top 11 inches below surface of ground. Distances and azimuths from the station to various points of reference are as follows: Chimney on flat-roof house, 1¾ miles, 4° 49′; chimney on main part of house on Town Creek, 1¼ miles, 25° 01′; 10-inch oak tree on edge of field, 227 yards, 41° 44′; right tangent of Spencers Wharf, 1 mile, 53° 54′; corner of field, 310 yards, 64° 50′; exposed chimney on left of house, 1½ miles, 65° 26′; left chimney on house, 1½ miles, 86° 47′; corner of field, 240 yards, 203° 50′; corner of field, 300 yards, 255° 50′; silver-tipped tower on Philip Vale house, ½ mile, 304° 58′; oak at edge of field, 300 yards, 341° 25′.

Bur (Calvert County, O. W. Ferguson, 1907; 1908).—On the eastern shore of Patuxent River, on the northwest side of Point Patience, about midway between point and large dwelling house on the high ground. Station is on sand and grass land, about 1 foot above high water, 12 yards southeast of high-water mark on one side of point and 36 yards northwest of high-water mark on other side of point, and about 300 yards northeast of extreme end of point. Station marked underground by nozzle of pint bottle set 24 inches below surface; above this is a 4-inch tile pipe, 20 inches long, set in and filled with cement, its top projecting 1 inch above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 12.15 meters (39.9 feet) from station in azimuth 265° 20′. Distances and azimuths from the station of other points of reference are as follows: Nail in blaze in 8-inch pine tree, 25.94 meters (85.1 feet), 20° 36′; square chimney on Dent house, ¾ mile, 86° 26′; chimney on house, 1⅝ miles, 126° 48′; left chimney of house, 1½ miles, 204° 35′; right chimney of house, 1½ miles, 216° 27′; left chimney of Marburger house, ¼ mile, 234° 04′; middle gable of Judge Crane's house, ½ mile, 357° 05′.

Mill (St. Marys County, O. W. Ferguson, 1907; 1908).—On the southwest shore of Patuxent River, about ½ mile southeast of the mouth of Cuckold Creek, and ½ mile northwest of Point Patience, on a sand bluff, about 20 feet above high water, 7 yards southwest of edge of bluff, 40 yards southeast of a fence and line of cedar trees, and about 100 yards northwest of another fence at bottom of hill. Station marked by nozzle of pint bottle 26 inches below surface of ground. Surface mark is 4-inch tile pipe, 26 inches long, set in and filled with cement, its top projecting about 2 inches above ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 13.76 meters (45.1 feet) from station in azimuth 28° 14′. Distances and azimuths from the station of other points of reference are as follows: Windmill near Dent house, ½ mile, 21° 46′; left chimney on house with piazza, 2¾ miles, 189° 01′; end of peak of roof of 2½-story house, 1¾ miles, 208° 30′; nearest

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chimney of cottage, 2 miles, 223° 16′; left chimney of house, 2 miles, 225° 18′; nearest chimney of Marburger house on Point Patience, ¾ mile, 284° 00′; middle of portico of Judge Crane's house, 1 mile, 327° 21′.

Ton (Calvert County, O. W. Ferguson, 1907; 1908).—On the eastern shore of Patuxent River, about 1 mile northeast of Point Patience, on a bluff about 15 feet above high water, 10 yards east from edge of bluff, 50 yards south-southwest from edge of gully and a clump of trees, and about 220 yards west-northwest of a 42-inch cherry tree. The station was marked by the nozzle of a pint bottle 29 inches below surface of ground; above this is a 4-inch tile pipe, 16 inches long, filled with and surrounded with cement, its top 1 inch below the surface of the ground, and a 60d. spike marking the center. Reference mark is center of standard cement monument of Maryland Shell Fish Survey with top 10 inches below surface of ground, note 16. It is 13.64 meters (44.8 feet) from the station in azimuth 297° 31′. Distances and azimuths from the station to other points of reference are as follows: Large cedar tree in small ravine, 160 meters (525 feet), 25° 13′; left chimney of Marburger house, ¾ mile, 34° 11′; chimney on far end of Wallace house, 1¾ miles, 118° 28′; chimney on middle of roof of McCorry store, 2 miles, 125° 09′; near end of peak of St. Cuthbert Wharf house, 2 miles, 127° 10′; chimney of Peterson house, 3¾ miles, 150° 39′; cemented chimney on near end of George old house, 1 mile, 159° 59′; left chimney of Costen house, ½ mile, 182° 59′; nail in blaze in tree, 47.60 meters (156.2 feet), 202° 35′; 10-inch cedar tree on edge of small ravine, 47.71 meters (156.5 feet), 202° 36′.

Nat (St. Marys County, O. W. Ferguson, 1907; 1908).—On the southwest shore of the Patuxent River, about 700 meters north of center of mouth of Cuckold Creek, near edge of cultivated field, on a sand and gravel bluff, about 20 feet above high water, 4 feet east of edge of bluff, and 90 meters northwest of rail fence which runs along west edge of slough and bushes. Station is marked by nozzle of pint bottle set 27 inches below surface of ground; above this is a 4-inch tile pipe filled with and surrounded by cement, its top ½ inch above ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 18.44 meters (60.5 feet) from station in azimuth 29° 47′. Distances and azimuths from the station to other points of reference are as follows: Cedar tree on west side of fence, 121.73 meters (399.4 feet), 15° 47′; cherry tree in field, 153.25 meters (502.8 feet), 61° 41′; large chimney on house, 3 miles, 171° 27′; right chimney on house with two-gable roof, 2 miles, 198° 30′; near end of peak of roof on Marburger house on Point Patience, 1½ miles, 317° 30′.

Hellen (Calvert County, O. W. Ferguson, 1907; 1908).—On the northeast shore of Patuxent River, on southeast side of mouth of Hellen Creek, at high water mark on edge of grass and bushes, about 16 yards west-southwest of bluff 15 feet high, about 40 yards north-northwest of bluff at edge of water, and about 80 meters below a watch house. Station marked by nozzle of pint bottle 20 inches below surface of ground; above this is a 4-inch tile pipe filled with and set in cement, its top 4 inches above the ground. In 1910 these two marks reported to have been washed away. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 12.45 meters (40.8 feet), from station in azimuth 255° 14′. Distances and azimuths from the station to other points of reference are as follows: Near end of peak of roof of Marburger house, 1½ miles, 4° 12′; mouth of Cuckold Creek, 1½ miles, 55° 18′; chimney of Peterson house, 3 miles, 149° 32′; left chimney of Barrett house, ¾ mile, 163° 12′; 7½-inch persimmon tree, 31.54 meters (103.5 feet), 183° 14′; east chimney of large dwelling house of Jespia Coster, 170 meters, 192° 47′; nail in blaze in tree, 14.74 meters (48.4 feet), 254° 20′; 6-inch sassafras tree, 14.67 meters (48.1 feet), 253° 36′.

Briscoe (St. Marys County, C. C. Yates, 1908).—On the southwest shore of Patuxent River, about ¼ mile northwest of St. Cuthbert Wharf, in a cultivated field, about 20 feet above high water, 80 yards southwest of trees on bank, 50 yards southeast of a creek bed, 46 yards northwest of clump of trees, 105 yards east of corner of fence on road, and about 300 yards northeast of another fence with woods back of it. Station marked by center of standard cement monument with top 11 inches below surface of ground, note 16. Surface mark is nail in stub with top flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey with top 5 inches above surface of ground, note 16. It is 12.52 meters (41.1 feet), from

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station in azimuth 100° 25′. Distances and azimuths from the station of other points of reference are as follows: Large two-forked tree, 130 yards, 57° 40′; corner of rail fence and tree, 105 yards, 64° 57′; large cherry tree other side of creek, 68 yards, 123° 23′; left chimney of house on opposite side with three dormer windows, 1½ miles, 233° 17′; cedar tree, 80 yards, 237° 22′; near corner of house, ¾ mile, 333° 34′; left end of peak of roof of barn, ¾ mile, 345° 41′.

Stump (Calvert County, O. W. Ferguson, 1907; 1908).—On the northeast shore of the Patuxent River, about ½ mile northwest of Hellen Creek, on land owned by Dan Barret. Station is on bank 20 feet above high water, 10 yards north-northeast of edge of bank at extreme end of point, about 20 yards southeast of edge of bank, and about 150 yards northwest of clump of cedar and locust trees at edge of bank. Station marked by nozzle of bottle 20 inches below surface of ground; above this is a 4-inch tile pipe filled with and set in cement with top flush with ground. Reference mark No. 1 is center of standard cement monument of Maryland Shell Fish Survey, with top 10 inches below surface of ground, note 16. It is 11.29 meters (37.0 feet) from station in azimuth 242° 29′. Reference mark No. 2 is center of standard cement monument of Maryland Shell Fish Survey with top 6 inches above surface of ground, note 16. It is 26.22 meters (86.0) feet from station in azimuth 241° 21′. Distances and azimuths from the station to other points of reference are as follows: 35-inch gum tree stump, 5.47 meters (17.95 feet), 25° 03′; nail in blaze in 30-inch stump, 5.01 meters (16.44 feet), 34° 26′; left chimney of house, 1¼ miles, 52° 58′; 7-inch locust tree standing near top of bank, 17.43 meters (57.2 feet), 135° 52′; nail in blaze in 8-inch tree, 17.52 meters (57.5 feet), 136° 07′; chimney in center of house, ¾ mile, 158° 46′; very conspicuous 48-inch locust tree in fence line, 95 meters (312 feet), 190° 00′; apple tree, 200 yards, 295° 37′; crab apple tree in field, 90 meters (295 feet), 295° 58′; left chimney of house, ¾ mile, 323° 56′; near end of peak of roof of Marburger house, 2¼ miles, 353° 04′.

Stock (St. Marys County, C. C. Yates, 1908).—On the southwest shore of Patuxent River, about 1 mile southeast of Sotterly Point, on a bluff, about 20 feet above high water, 3 yards southwest of edge of bluff, about 50 yards east by north of front door of the house of Mr. Bond, 30 yards west-northwest of extreme end of point of bluff, 35 yards northeast of detached house, and about 43 yards east by south of yard fence at edge of bluff. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Nearest corner of outhouse, corner farthest from house, 34.30 meters (112.5 feet), 48° 17′; left corner of house, 31.13 meters (102.1 feet), 67° 19′; nail in blaze in 48-inch cherry tree 1 foot above ground, 20.58 meters (67.5 feet), 70° 27′; right corner of house, 45.79 meters (150.2 feet), 92° 18′; locust tree (4 inches diameter), 8.83 meters (28.97 feet), 97° 20′; end of yard fence, 43 yards, 117° 19′; tree near edge of bank, 34.27 meters (112.4 feet), 124° 27′; right chimney of house on Dickson place, 1¾ miles, 248° 23′; right chimney of old 1½-story house, 2 miles, 265° 48′; tangent of bluff, 1 mile, 304° 48′; chimney on house on point, 1 mile, 305° 51′; nail in blaze in 4-inch locust tree, 2.18 meters (7.15 feet), 346° 36′.

Lend (Calvert County, C. C. Yates, 1908).—On the northeast shore of Patuxent River, on a narrow strip of land or peninsula in the mouth of Mears Creek, about ½ mile southeast of St. Leonard Creek, in the midst of many cherry, oak, and locust trees, about 15 feet above high water, 15 yards east-northeast of high ground, 5 yards west of edge and 17 yards north of extreme point of top of peninsula. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Outside chimney on left end of Briscoe house, 1½ miles, 35° 11′; near peak of Bond house, 1⅝ miles, 67° 07′; chimney on storehouse at Sotterly, 2¼ miles, 87° 29′; near end of peak of roof of Sotterly Wharf house, 2¼ miles, 88° 17′; chimney on Gadden house, 3¼ miles, 99° 57′; nail in blaze of 6-inch cherry tree, 3.64 meters (11.94 feet), 114° 34′; nail in blaze in 4-inch cherry tree, 3.58 meters (11.75 feet), 247° 38′; right chimney of house across creek, ¼ mile, 269° 01′; nail in blaze in 8-inch oak tree, 6.68 meters (21.92 feet), 359° 01′.

Bars (St. Marys County, O. W. Ferguson, 1908).—On the southwest shore of Patuxent River, on Sotterly Point, about ¼ mile northwest of Sotterly Wharf,

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on highest point of bank, 30 feet above high water, 5 yards south of edge of bank at rail fence, and 2 yards east of this same fence. Station is marked by nozzle of pickle bottle 22 inches below surface of ground; above this is a 4-inch drain tile filled with and surrounded by cement and projecting 4 inches above surface of ground. Reference mark is center of triangle on standard cement monument of Maryland Shell Fish Survey, note 16; it is 14.53 meters (47.7 feet) from station in azimuth 9° 54′. Distances and azimuths from the station of other points of reference are as follows: Smoke pipe on right end of house, ¼ mile, 49° 43′; tangent of point of land, 1½ miles, 142° 53′; Peterson house chimney, 1¾ miles, 251° 28′; windmill, 3 miles, 275° 29′; chimney of house, 4 miles, 293° 56′.

Wheat (Calvert County, O. W. Ferguson, 1907; 1908).—On the northeastern shore of Patuxent River, on westerly side of mouth of St. Leonard Creek, on a bluff about 40 feet above high water, about 5 yards west of edge of bank, 7 yards south of another edge, ⅝ mile west of Peterson house, and 29 meters north of break in the high ridge dropping to the marsh ground on the east. Station marked by nozzle of round quart bottle set 22 inches below surface of ground; above this is a 4-inch tile pipe filled with and set in cement with top projecting about 4 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 12.80 meters (42.0 feet), from station in azimuth 241° 54′. Distances and azimuths to other points of reference are as follows: Chimney on roof of house, 1½ miles, 23° 42′; chimney on store at Sotterly, 1½ miles, 57° 18′; left end of barn roof, 2 miles, 157° 04′; center chimney of Peterson house, 247 meters, 244° 59′; chimney of house, ⅛ mile, 261° 40′; chimney on house on Breeden estate, 2 miles, 303° 41′; west gable of Peterson barn, 140 meters, 200° 46′; left end of roof of St. Cuthbert Wharf, 2¼ miles, 347° 46′.

Mackall (Calvert County, C. C. Yates, 1908).—On the northwest shore of Patuxent River, on west side of entrance to St. Leonard Creek, on first point inside Peterson Point, about 50 feet above high water, 9 feet northwest of edge of bluff, 7 yards northeast of bushes, and 3 yards southwest of other bushes. Station mark is center of a wooden box, 4 inches square, with top 3 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 3.80 meters (12.47 feet) from station in azimuth 144° 52′. Distances and azimuths from the station of other points of reference are as follows: Front peak of Briscoe house, 2⅛ miles, 9° 08′; peak of front gable of Bond house, 1¾ miles, 35° 17′; chimney on negro house, ⅜ mile, 89° 09′; chimney on Peterson house, ¼ mile, 101° 03′; chimney on negro house, ⅝ mile, 170° 27′; chimney on ell of house on hill, ½ mile, 188° 24′; chimney on small house back of Sollers Wharf, 1 mile, 264° 18′; nearest outside chimney of 1½-story house, 2 miles, 270° 46′; large chimney on Sollers house, ¾ mile, 271° 40′; large chimney on Taylor house, ½ mile, 320° 05′.

Sollers (Calvert County, C. C. Yates, 1908).—On the northeast shore of Patuxent River, on east side of entrance to St. Leonard Creek, about 50 feet above high water, 6 feet east of edge of bank, 20 yards north-northeast of clump of trees, 14 yards and 8 yards south-southwest of other trees, and 75 yards north-northwest of rail fence. Station mark is center of oblong wooden box 5 inches square with top 3 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey with top 12 inches below surface of ground, note 16. It is 13.68 meters (44.9 feet) from station in azimuth 316° 00′. Distances and azimuths to other points of reference are as follows: Top of front gable on Briscoe house 1¾ miles, 16° 00′; middle of front gable of Bond house, 1¾ miles, 44° 58′; chimney of store at Sotterly Wharf, 2⅛ miles, 71° 22′; near corner of outside chimney on house, 2½ miles, 71° 42′; chimney on top of Gadden house, 2⅞ miles, 90° 38′; near corner of top chimney on Peterson house ½ mile, 122° 51′; right end of peak of roof of Mackall's house, ½ mile, 194° 40′; near corner of large chimney on Taylor house, ⅛ mile, 316° 59′.

Hutchins (St. Marys County, C. C. Yates, 1908).—On the southwest shore of the Patuxent River, opposite Broome Island, on Captain Point, just west of the mouth of St. Thomas Creek. Station is in garden on point of bluff 50 feet high, on Hutchins estate, near house occupied by Mr. Gadden, about 6 yards south by east of extreme point of bluff, 2 yards southwest of edge of bluff, 4 yards southeast of edge of bluff, 30 yards north by west from house, 30

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yards west of wire fence running north and south, and 15 yards east of another north-and-south wire fence. Station mark is nail in stub with top flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 7.57 meters (24.84 feet) from station in azimuth 59° 39′. Distances and azimuths from the station of other points of reference are as follows: Right front corner of Gadden house, 28.57 meters (93.7 feet), 16° 49′; near corner of well house, 30.44 meters (99.9 feet), 34° 08′; near corner of shed, 45 yards, 51° 36′; nail in blaze in 22-inch apple tree, 9.35 meters (30.68 feet), 79° 59′; right tangent of Parkers Wharf, 2½ miles, 160° 05′; gilt ball on Broome house on Broome Island, 1½ miles, 181° 48′; tip of tower on Peterson house, 2½ miles, 264° 35′; left corner of extension of Gadden house, 30.90 meters (101.4 feet), 350° 10′.

Island (Calvert County, C. C. Yates, 1908).—On the northeast shore of Patuxent River, on extreme southeast point of land about ½ mile to the east of mouth of Island Creek, on a marshy point at about extreme high-water mark, 30 yards north of extreme end of point, 25 yards east of one side of point, and 20 yards west of another side of point. Station mark is nail in stub, with top flush with surface of ground. One reference mark is center of 4-inch pipe set in cement with top projecting 10 inches above ground; this is the center mark for station point of 1907 survey (see index). It is 16.98 meters (55.7 feet) from station in azimuth 192° 39′. Another reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 30.93 meters (101.5 feet) from station in azimuth 182° 40′. Distances and azimuths from the station of other points of reference are as follows: Pinnacle of large house in trees, 2 miles, 7° 34′; left chimney of large house back on hill, 2 miles, 14° 39′; chimney on middle of large 2½-story house, 1½ miles, 56° 44′; middle of railing on top of roof of 2½-story house, 3 miles, 66° 45′; chimney of Broome House, ¾ mile, 90° 26′; weather vane on Broome house, ¾ mile, 95° 18′; right chimney of house, 3 miles, 125° 06′; right chimney of house, 2 miles, 140° 12′; smoke pipe of watch house, 1 mile, 280° 14′; tower of Peterson house, 2 miles, 302° 53′; left end of peak of roof of Sotterly Wharf house, 2 miles, 352° 52′.

Sweep (Calvert County, C. C. Yates, 1908).—On the northeast shore of Patuxent River, on northwest side of mouth of Island Creek, near inner end of neck of land joining Broome Island to the mainland, about 4 feet above high water, 4 feet northwest of wire fence, 24 yards south by west of stable, 60 yards south-southwest of a house, and 100 yards south-southeast of a pine grove. Station mark is center of oblong wooden box, 4 inches square, with top 4 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 21.70 meters (71.2 feet) from station in azimuth 239° 39′. Distances and azimuths to other points of reference are as follows: Peak of roof of Gadden house, 1⅝ miles, 10° 24′; tangent of Broome Island point, ½ mile, 28° 11′; chimney of house on hill, 3 miles, 36° 47′; gilt ball on lightning rod, ⅜ mile, 46° 53′; chimney on house, ¼ mile, 80° 56′; chimney on house, 150 yards, 171° 24′; tile smoke pipe on house, 140 yards, 188° 14′; near corner of house, 60 yards, 215° 25′; near corner of barn, 24 yards, 222° 22′; right chimney of four on house, ¼ mile, 264° 15′; top of tower of house, 2½ miles, 286° 44′; right chimney of house, 3 miles, 359° 38′.

Cole (St. Marys County, C. C. Yates, 1908).—On the southwest shore of Patuxent River, about ¼ mile northwest of Cole Creek, about 35 feet above high-water mark, on a grass peninsula, 3 yards south-southwest of edge of bluff which is washing rapidly, 8 yards west of extreme edge of bluff where it turns in and is not washing but slopes gradually to water, 8 yards north of another edge of bluff, 10 yards northwest of trees on slope of bank, and 20 yards west of cherry tree 2 feet in diameter. Station mark is nail in stub, with top flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 13.53 meters (44.4 feet) from station in azimuth 83° 09′. Distances and azimuths from the station to other points of reference are as follows: Nail in blaze in 24-inch cherry tree, 18.65 meters (61.2 feet), 79° 58′; right chimney of house, ¼ mile, 111° 58′; right end of peak of roof of Forrest Wharf house, 1½ miles, 135° 08′; right end of house, 3 miles, 183° 52′; left end of peak of house, 3 miles, 213° 10′; gilt ball on Broome house, 2 miles, 254° 18′; right tangent of Broome Island, 1¾ miles, 267° 04′; left end of peak of roof on Jones Wharf house, 1½ miles, 299°

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12′; nail in blaze in limb of 4-inch oak tree, 10.80 meters (35.4 feet), 314° 52′; screw in blaze in crotch of 15-inch oak tree, 12.67 meters (41.6 feet), 331° 05′; nail in blaze in 6-inch cedar tree, 8.43 meters (27.66 feet), 356° 28′.

Slim (Calvert County, C. C. Yates, 1908).—On the northeast shore of Patuxent River, about half way between Battle and Island Creeks, and ½ mile west-northwest of Parkers Wharf, in a field, on a sand bluff, about 40 feet above high water, 13 yards northeast of edge of bluff, 90 yards southeast of a point of woods at top of a ravine, about 189 yards southwest of another point of woods, 150 yards west-northwest of a rail fence, and 71 yards northwest by west of a large sycamore tree. Station mark is nail in round chestnut stub with top about 6 inches above surface of ground. Subsurface mark is center of standard cement monument of Maryland Shell Fish Survey with top 10 inches below surface of ground, note 16. Distances and azimuths to various points of reference are as follows: Chimney on middle of roof of long house, 1¾ miles, 50° 03′; outside chimney of house near Forrest Wharf, 2 miles, 65° 55′; left tree on point, 90 yards, 131° 35′; two high trees close together near right edge of point of woods, 189 yards, 224° 56′; large walnut tree, ¼ mile, 238° 49′; near end of peak of roof of barn, ½ mile, 244° 52′; cedar in field, 200 yards, 303° 08′; large sycamore tree, 71 yards, 329° 49′; near end of peak of roof on Jones Wharf house, 2½ miles, 353° 56′.

Forr (St. Marys County, C. C. Yates, 1908).—On the southwest shore of Patuxent River just below Forrest Wharf, about 1 foot above high-water mark, on sand and grass land, 7 yards south from extreme high-water mark, 45 yards southeast of land end of Forrest Wharf, 70 yards east by south of an old 2½-story building, and 65 yards northeast of building. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Near corner of building, 65 yards, 51° 44′; outside chimney of house on hill, ⅛ mile, 65° 14′; curve in road up hill, 200 yards, 81° 17′; west corner of old 2½-story building, 70 yards, 89° 44′; land end of wharf, 45 yards, 119° 07′; windmill, 2¾ miles, 132° 52′; left corner of left chimney of brick house, 3 miles, 132° 57′; near end of peak of roof of Forrest Wharf house, ⅛ mile, 207° 09′; right tangent of roof, 2½ miles, 254° 15′; near corner of house on hillside, 180 yards, 319° 51′.

Photo (Calvert County, C. C. Yates, 1908).—On the northeast side of Patuxent River, on east side of entrance to Jacks Bay, in a cultivated field, about 150 yards north-northeast of a marshy point, 10 feet above high water mark, 49 yards east of shore, 110 yards north-northwest of shore, and 68 yards northeast of right end of clump of trees at edge of field and beginning of marsh point. Station mark is nail in stub with top 2 inches above surface of ground. Subsurface mark is center of standard cement monument of Maryland Shell Fish Survey with top 12 inches below surface of ground, note 16. Distances and azimuths to various points of reference are as follows: Cedar trees, 85 yards, 7° 57′; left corner of house, 2 miles, 21° 00′; smoke pipe on house behind trees, 2 miles, 26° 05′; left tangent of Forrest Wharf, 2¼ miles, 28° 57′; tree, 70 yards, 38° 07′; watch house on point, ½ mile, 66° 49′; 20-inch locust tree, 135 yards, 189° 20′; left chimney of house, ½ mile, 170° 42′; willow tree, 140 yards, 279° 24′; chimney on old house, 2 miles, 359° 18′.

Fight (St. Marys County, C. C. Yates, 1908).—On the southwest shore of Patuxent River, opposite mouth of Battle Creek, on a prominent low point, on land known as Horsehead Marsh, about 1 foot above high water, 12 yards south-southwest of extreme end of point, 15 yards west-northwest of shore of small creek, 40 yards northeast of woods, and 110 yards east-southeast of a bluff 50 feet high. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Left corner of left chimney of large house, 1 mile, 133° 25′; Dowell's windmill, 2½ miles, 171° 13′; left chimney on small house adjoining large house, 2¼ miles, 192° 26′; chimney of small house, 2 miles, 196° 23′; outside chimney in center of group of buildings, 2¼ miles, 244° 15′; left tangent of Forrest Wharf, 2 miles, 312° 51′; near end of peak of roof of 2½-story building, 1¾ miles, 314° 32′; large square chimney on large building, 1 mile, 322° 04′.

Battle (Calvert County, C. C. Yates, 1908).—On the northeast shore of Patuxent River, on west side of entrance to Battle Creek, on Prison Point, on sand and grass land between marsh and river, about 1 foot above high

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water, 85 yards south of a field, 6 yards northeast of a shore, 20 yards southwest of a pool, 100 yards southwest by west of a lone tree, 200 yards west of small house among trees, and 100 yards west to northwest of several dwarf trees between house and beach. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Left corner of left chimney of very large house, 2¼ miles, 5° 19′; right chimney of large 2½-story brick house, 1½ miles, 78° 43′; tangent to Sheridan Point, 2½ miles, 126° 03′; right end of peak of roof of 2½-story house, 2¼ miles, 136° 33′; chimney of 2½-story house on hill, 2 miles, 152° 02′; lone tree, 80 yards, 251° 24′; outside chimney of house on hill, 3 miles, 260° 54′; house among trees, 100 yards, 278° 58′; tangent of Long Marsh, 1½ miles, 338° 28′; left chimney of 2½-story house, 3 miles, 345° 21′; chimney of 2½-story house, 2 miles, 349° 40′; right tangent of Forrest Wharf, 1½ miles, 354° 42′; chimney on middle of roof of house, 2¼ miles, 358° 35′.

Oppkitt (St. Marys County, C. C. Yates, 1908).—On the southwest shore of Patuxent River, on Marsh Point, on sand and grass ridge between sand beach and marsh, about 1 foot above high water, 3 yards southwest of high-water mark, 60 yards west-northwest of one point of beach, 64 yards south of another point of beach, and 85 yards north-northwest of an oyster watch house on piles. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Right corner of right chimney of brick house, ½ mile, 3° 13′; chimney on house near trees, ¾ mile, 109° 14′; highest chimney on Cremona House, ⅞ mile, 131° 20′; point of roof on Dukes Wharf, 1½ miles, 186° 40′; chimney on house with ell, 1½ miles, 207° 20′; large square brick chimney on house with ell, 1½ miles, 210° 39′; nearest chimney of pair on end of house, 1½ miles, 229° 31′; near end of peak of roof of Williams Wharf house, 2½ miles, 273° 17′; left corner of watch house, 85 yards, 323° 58′; left point of peak of roof of De La Brooke Pier, 1 mile, 330° 40′.

Kitt (Calvert County, C. C. Yates, 1908).—On the northeast shore of Patuxent River, on Kitts Marsh Point, which is about halfway between Battle Creek and Sheridan Point, on the point of a long marsh neck, about 15 yards northeast of extreme end of point, 13 yards north of edge of marsh and 13 yards east of edge of marsh. Station mark is nail in stub flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 15.84 meters (52.0 feet) from station in azimuth 190° 23′. Distances and azimuths from the station to other points of reference are as follows: Near end of peak of roof of De La Brooke Pier, 1½ miles, 34° 50′; near corner of near chimney of Thomas's house, 1¾ miles, 44° 29′; large house, 1 mile, 128° 36′; square chimney of large house, ¼ mile, 146° 21′; left chimney of house, 2½ miles, 204° 54′; Hance's house, 2 miles, 260° 11′; right tangent of Long Marsh, 2 miles, 328° 51′.

Cremona (St. Marys County, C. C. Yates, 1908).—On the southwest shore of Patuxent River, about midway between Cremona and Persimmon Creeks, in an orchard on a farm known as Cremona, about 6 feet above high water, 10 yards south of edge of river bank, 7 yards south of rail fence which runs west and east to dooryard fence, 36 yards east of rail fence of cornfield, 75 yards north of rail fence at cornfield, and 53 yards west of picket fence. Several mountain dwarf cherry trees stand between fence and river-bank edge. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Nail in blaze in 15-inch apple tree, 16.11 meters (52.9 feet), 4° 47′; corner of field, 87 yards, 86° 09′; corner of field, 38 yards, 137° 46′; near end of peak of roof of Young Hance house, 3 miles, 280° 40′; nail in blaze in 24-inch apple tree, 24.55 meters (80.5 feet), 301° 52′; nail in blaze in 16-inch apple tree, 13.12 meters (43.0 feet), 326° 57′.

Sheridan (Calvert County, C. C. Yates, 1908).—On the northeast shore of Patuxent River, on Sheridan Point, on a sand and grass point, near edge of grass, about 2 feet above high water, 6 yards east of extreme edge of grass on point, 8 yards north of grass edge, and 7 yards south of grass edge. Station mark is nail in stub with top 6 inches above ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 14.13 meters (46.4 feet) from station in azimuth 229° 56′. Distances and azimuths to other points of reference are as follows: Left corner of left chim-

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ney of Thomas's house (Cremona), 1¼ miles, 36° 33′; smoke pipe of house with several gables, 1¼ miles, 58° 20′; right tangent of Trent Hall Wharf, 1 mile, 125° 55′; near chimney of Dowell house, ¼ mile, 259° 18′; left end of peak of roof of De La Brooke Pier, 1¾ miles, 350° 08′.

Collins (St. Marys County, C. C. Yates, 1908).—On the southwest shore of Patuxent River, about ¼ mile northeast of entrance to Washington Creek, on point opposite Sheridan Point, on marsh land, about 1 foot above high water, 16 yards west of shore, 20 yards northwest of shore, 21 yards southwest of shore, 300 yards northeast of a tall lone tree, and 300 yards southeast of house known as Trent Hall. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Smoke pipe in chimney on store, ½ mile, 17° 29′; large lone tree, 300 yards, 48° 08′; small lone tree, 130 yards, 94° 11′; near corner of Trent Hall Wharf house, ½ mile, 163° 38′; chimney on end of roof among trees, 2¼ miles, 206° 42′; left corner of left chimney of Dowell's house, 1 mile, 273° 12′; left end of peak of roof of De La Brooke Pier, 2¼ miles, 331° 13′; right side of right chimney of large painted brick house, 2¼ miles, 339° 24′; near corner of Thomas's house (Cremona), 1 mile, 352° 23′.

Trent (St. Marys County, C. C. Yates, 1908).—On the southwest shore of Patuxent River, on White Point, about 50 yards west of Trent Hall Wharf, 1 foot above high water, on sand and grass land between river and marsh, about 47 yards west of small house on land end of Trent Hall Wharf, about 64 yards northwest of extreme end of White Point, 5 yards southwest of high water mark, about 428 yards north of Trent Hall, and 105 yards south by east of mouth of creek. Station mark is nail in stub flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 17.18 meters (56.4 feet) from station in azimuth 69° 39′. Distances and azimuths to other points of reference are as follows: Right corner of Trent Hall, 428 yards, 16° 37′; right cupola of three on Trent Hall stable, 300 yards, 42° 09′; large lone tree, 150 yards 56° 20′; right end of peak of roof of Holland Point Wharf, 2¼ miles, 175° 34′; right chimney of smaller of two houses among trees, 2 miles, 216° 30′; right corner of shanty, 47 yards, 243° 05′; tangent of point, ½ mile, 334° 46′; large lone tree, ½ mile, 352° 44′.

Morsel (Calvert County, C. C. Yates, 1908).—On the northeast shore of Patuxent River, about 1 mile north by west of Sheridan Point, in a wheat field, on a cliff, about 60 feet above high water, about 5 yards northeast of edge of bank, 110 yards north-northwest of rail fence at woods, 103 yards west-southwest of woods, and 167 yards west-northwest of corner of field at creek and woods. Trees grow out of face of cliff below station. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Near corner of near chimney on brick end of Dowell's house, 2 miles, 31° 45′; chimney beyond weeping willow at Trent Hall, 1 mile, 57° 31′; nearest chimney on Slye's house, 3 miles, 122° 44′; chimney on house with tin roof ell, 1 mile, 166° 50′; oak tree near creek (4 feet diameter), 167 yards, 292° 00′; large white-oak tree, 110 yards, 325° 23′.

Billiard (St. Marys County, C. C. Yates, 1908).—On the southwest shore of Patuxent River, about ¼ mile southeast of entrance to Trent Hall Creek, on marsh land about 1 foot above high water, 6 yards west of shore, 70 yards north of curve in shore, and about 100 to 150 yards north to northwest of a fence which runs to water's edge. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Tangent of curve in water line, 71 yards, 00° 06′; chimney of 2½-story house, 2 miles, 49° 05′; right corner of Sothoron's house, ½ mile, 129° 40′; near corner of chimney on Slye's house, 2 miles, 138° 15′; right tangent of wharf, 2 miles, 180° 17′; middle of three chimneys on Gourley's house, 2 miles, 195° 59′; chimney on house among trees, 1½ miles, 260° 47′; nearest end of peak of roof of Dowell's house at Dukes Wharf, 1¾ miles, 300° 48′; right tangent of Sheridan Point, 1½ miles, 308° 40′; left tangent of Trent Hall Wharf, ⅜ mile, 315° 55′; smoke pipe on house at land end of Trent Hall Wharf, ⅜ mile, 323° 59′; middle cupola on Trent Hall stable, ½ mile, 343° 42′; chimney on Trent Hall, ½ mile, 345° 47′; two trees, 200 yards, 358° 54′.

Buzz (Calvert County, C. C. Yates, 1908).—On the northeast shore of Patuxent River, on southwest side of Buzzards Island, near mouth of Buz-

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zards Island Creek. Station is on marsh, clay, and grass land on wooded island, about 2 feet above high water, 5 yards northeast of river shore, and 40 yards northwest of extreme point of island. Station mark is nail in stub with top flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 8.97 meters (29.43 feet) from station in azimuth 227° 23′. Distances and azimuths from the station of other points of reference are as follows: Smoke pipe on roof of storehouse, 2 miles, 13° 48′; near corner of near chimney, 2 miles, 15° 13′; chimney of Trent Hall, 1¼ miles, 25° 25′; nearest of three cupolas on stable, 1¼ miles, 29° 14′; left piazza post at Sothoron's, 1¼ miles, 77° 18′; center of roof of square house, 1¾ miles, 129° 52′; nail in blaze in 18-inch oak tree, 4.55 meters (14.93 feet), 146° 51′; nail in blaze in 18-inch oak tree, 13.16 meters (43.2 feet), 173° 14′; nail in blaze in 24-inch oak tree, 9.62 meters (31.56 feet), 209° 45′; nail in blaze in 5-inch pine tree, 6.52 meters (21.39 feet), 230° 20′; chimney on house across creek, ¼ mile, 288° 00′.

Sothoron (St. Marys County, C. C. Yates, 1908).—On the western shore of Patuxent River, on Long Point, between entrances to Indian and Trent Hall Creeks, on sand and grass lowland, about 1 foot above high water, among cedar trees, about 24 yards west by north of extreme end of point, 12 yards north of one edge of shore and 30 yards southwest of another edge of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Point of middle attic window of John Bullinger's house, 1 mile, 21° 33′; left pillar of porch of Sothoron's house, ½ mile, 40° 14′; nail in blaze in 12-inch cedar tree, 8.12 meters (26.64 feet), 76° 43′; near corner of nearest chimney of Slye's house, 2 miles, 124° 56′; nail in blaze in 4-inch locust tree, 10.83 meters (35.5 feet), 136° 21′; right one of two outside chimneys on old house on hill on property of A. B. Slye, 2 miles, 141° 22′; center of roof on square house, 1 mile, 157° 30′; nail in blaze in 6-inch locust tree, 12.81 meters (42.0 feet), 184° 15′; nearest chimney on Gourley's house, 1¼ miles, 197° 46′; nail in blaze in 4-inch locust tree, 3.35 meters (10.99 feet), 224° 40′; left end of peak of roof of Dowell's house, 2¼ miles, 314° 26′; middle cupola on Trent Hall stable, 1¼ miles, 344° 16′.

Dwarf (Calvert County, C. C. Yates, 1908).—On the eastern shore of Patuxent River, about 2 miles north-northwest of Sheridan Point, and about 1 mile southeast of Benedict, on a point of land opposite the mouth of Indian Creek. Station is on sand and grass land about 1 foot above high water, 6 yards northeast from extreme end of point, 4 yards east of one edge of shore, and 6 yards north of another edge of shore. Point on which the station is located has a sugarberry tree, several small locust trees, and water bushes, and a pond behind bushes and trees about 100 yards to the east. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Middle cupola on stable, 1½ miles, 3° 17′; right pillar on Sothoron house porch, 1 mile, 41° 26′; nearest corner of top of nearest chimney on tenant house, 2 miles, 122° 36′; center of roof of square house, 1 mile, 125° 21′; nail in blaze in 4-inch locust tree, 4.22 meters (13.84 feet), 135° 43′; canning house stack, 1¼ miles, 137° 09′; left tangent of wharf, ¾ mile, 166° 24′; nail in 10-inch sugarberry tree, 8.94 meters (29.33 feet), 194° 43′; nail in blaze in 3-inch locust tree, 2.68 meters (8.79 feet), 238° 27′; chimney on small house, 2 miles, 300° 53′; left point of peak of roof of Dowell's, 2¼ miles, 329° 35′; left end of peak of roof of Trent Hall Wharf, 1½ miles, 357° 40′.

Indian (Charles County, C. C. Yates, 1908).—On the western shore of Patuxent River, on north side of entrance to Indian Creek, and about ¼ mile below Benedict steamboat wharf, about 3 feet above high water, 7 yards west of shore, 16 yards northeast of a fence and a line of trees, 13 yards southwest of a lone locust tree, about 250 yards to the south-southeast of a large square house, and 125 yards east-northeast of another house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Nail in blaze in 5-inch locust tree near fence, 15.57 meters (51.1 feet), 10° 38′; nail in blaze in middle branch of locust tree (6 inches diameter), 19.13 meters (62.8 feet), 43° 14′; square chimney on old house, 1¼ miles, 114° 12′; right chimney of square house, ⅛ mile, 165° 19′; near end of peak of roof of hotel, ¼ mile, 183° 15′; canning house stack, ¼ mile,

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190° 11′; nail in blaze in left branch of 5-inch locust tree, 12.90 meters (42.3 feet), 202° 17′; right tangent of Benedict Wharf, ½ mile, 204° 59′; chimney of house near Buena Vista, 2¼ miles, 222° 47′; chimney of Gourley house, 1 mile, 247° 17′.

Hallowing (Calvert County, C. C. Yates, 1908).—On the eastern shore of Patuxent River, on point opposite Benedict known locally as Holland Point, but given on charts as Hallowing Point, on a round, gravel, and grass point, about 250 yards south of wharf on Holland Point, about 2 feet above high water, 10 yards north of shore, 8 yards east of shore, and 15 yards outside of a group of locust trees, sugarberry trees, and bushes. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Outside chimney of detached house at Sothoron's, 1½ miles, 78° 33′; center of roof on square house, ¾ mile, 82° 54′; canning house stack, ½ mile, 101° 55′; left end of peak of roof of wharf house on Holland Point, 250 yards, 151° 54′; chimney of store at Buena Vista, 1¾ miles, 206° 06′; nail in blaze in nearest one of group of four sugarberry trees (each 8 inches diameter), 12.88 meters (42.3 feet), 221° 03′; nail in blaze in 10-inch sugarberry tree, 15.74 meters (51.6 feet), 238° 38′; nail in blaze in 4-inch locust tree, 11.90 meters (39.0 feet), 296° 35′; smoke pipe on Trent Hall Wharf building, 2¼ miles, 356° 14′.

City (Charles County, C. C. Yates, 1908).—On the western shore of Patuxent River, on Town Point, about ¼ mile north-northeast of Benedict steamboat wharf. Station is on gravel and shell point, about 4 feet above high water, 12 yards northwest of shore, 63 yards west-southwest of a shanty, about 100 yards west-southwest of extreme end of point, and 11 yards southeast of a slough. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Left tangent of peak of wharf-house roof, ¼ mile, 30° 13′; center of roof of square house, ½ mile, 33° 15′; canning-house stack, ¼ mile, 44° 01′; nearest ivy-covered chimney of old house, ⅛ mile, 78° 53′; left square chimney of house, 1¾ miles, 194° 21′; near end of peak of roof of Huggins's house, 1½ miles, 229° 33′; near corner of shanty, 63 yards, 249° 23′; right chimney of Gourley's house, ¾ mile, 287° 59′; chimney of old building behind wharf, ¾ mile, 300° 40′.

Teague (Charles County, C. C. Yates, 1908).—On the western shore of Patuxent River, on point on southern side of entrance to Swanson Creek, locally known as Teague Point and given on charts as Point Judith, on gravel and grass land, about 3 feet above high water, about 11 yards from south side, 16 yards from north-northeast side, and 75 yards west by north of extreme end of point. Bushes stand between station and north end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Canning-house stack, 1¼ miles, 11° 42′; near end of peak of hotel, 1¼ miles, 13° 36′; left one of two ivy-covered chimneys, 1 mile, 15° 49′; chimney on Slye's house, 2 miles, 35° 54′; left chimney of house on hill, 2 miles, 50° 21′; tangent of high-water mark, 75 yards, 73° 24′; near end of peak of roof, 1 mile, 129° 05′; chimney on large house on hill, 3 miles, 148° 44′; left chimney on house, 1 mile, 206° 41′; near end of peak of roof on store at Buena Vista, 1¼ miles, 261° 23′; tangent of Teague Point, 75 yards, 285° 24′; near corner of right chimney of Gourley's house near Hallowing Point, 1¼ miles, 331° 09′.

Buena (Calvert County, C. C. Yates, 1908).—On the eastern shore of Patuxent River, about 1¼ miles northeast of Benedict, at place known as Buena Vista, in a field adjoining house owned by S. V. Smith and occupied by Doctor Huggins, about 10 feet above high water, 8 yards east of edge of bank, and 12 yards south of a rail fence. Station mark is nail in stub with top 2 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is near fence and is 11.11 meters (36.4 feet) from station in azimuth 185° 42′. Distances and azimuths from the station to other points of reference are as follows: Center of red roof on square house near Benedict, 2 miles, 45° 27′; canning-house stack, 1¾ miles, 48° 52′; nail in blaze in 4-inch locust tree, 8.58 meters (28.15 feet), 59° 11′; left chimney of old house, 3 miles, 93° 37′; left chimney of old house, 3 miles, 100° 14′; nail in blaze in 2-inch cherry tree, 9.70 meters (31.82 feet), 126° 27′; chimney of house near Leitch Wharf, 1 mile, 136° 14′; nail in blaze

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in fence post, 11.18 meters (36.7 feet), 170° 56′; near corner of house, 25 yards, 187° 06′; 15-inch cherry tree on fence line, 35 yards, 248° 47′; 30-inch double apple tree, 59 yards, 318° 16′.

Leitch (Calvert County, C. C. Yates, 1908).—On the eastern shore of Patuxent River, on prominent point opposite mouth of Swanson Creek, known locally as Leitchs Point, but given on chart as Gods Grace Point. Station is on sand and grass land, about 1 foot above high water, and 3 yards north of a straight line connecting two round points. It is about 13 yards northwest of the lower of these two points and 9 yards east of upper one. A creek 3 feet wide has its mouth about 19 yards east by south of station. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Canning house stack, 2 miles, 14° 22′; Catholic church cross, 2 miles, 18° 35½′; chimney of small house, 1 mile, 45° 52′; right outside chimney of old house, 1¼ miles, 65° 43′; right outside chimney of old house, 1½ miles, 80° 05′; near end of corner peak of roof of large house on hill, 1¾ miles, 122° 02′; near end of peak of wharf house roof, ¼ mile, 174° 46′; right chimney of house, ⅛ mile, 280° 32′; right chimney of Gourley house, 2 miles, 350° 58′.

Prince (Prince George County, C. C. Yates, 1908).—On the western shore of Patuxent River, about ¼ mile north of mouth of Swanson Creek, in a pasture about 20 feet above high water, 15 yards northwest of edge of bank, 75 yards northeast of a grove of trees, and 100 yards southwest of another grove of trees. Locust trees form a fringe along edge of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Nail in blaze in 4-inch locust tree, 14.55 meters (47.7 feet), 27° 12′; outside chimney on large house on hill, ¾ mile, 67° 44′; near end of peak of roof, ¾ mile, 143° 01′; middle of clump of trees, 100 yards, 189° 59′; chimney of house, 1¾ miles, 228° 03′; nail in blaze in crotch of 6-inch locust tree, 19.27 meters (63.2 feet), 267° 38′; square chimney of house, ¾ mile, 277° 01′; chimney on store at Buena Vista, 1¾ miles, 296° 14′; chimney of Doctor Huggins's house at Buena Vista, 1¾ miles, 298° 06′; nearest chimney on Gourley's house at Hallowing Point, 2½ miles, 332° 15′; nail in blaze in 3-inch locust tree, 15.94 meters (52.3 feet), 356° 37′.

Fodder (Charles County, C. C. Yates, 1908).—On the western shore of Patuxent River, on the southern side of the mouth of Swanson Creek, about 1 mile west-southwest of Leitch Wharf and ¾ mile west-northwest of Point Judith (locally known as Teague Point). Station is on edge of cultivated land, about 10 feet above high water, 4 yards west of one edge of bank, and 9 yards north of another edge. Station mark is center of standard cement monument of Maryland Shell Fish Survey with top 9 inches square and 8 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey with top 5 inches above surface of ground, note 16. It is 15.21 meters (49.9 feet) from station in azimuth 60° 53′. Distances and azimuths to various points of reference are as follows: Large chimney of small house, 1 mile, 19° 44′; left side of left chimney outside of Bowling house, ¾ mile, 56° 48′; left corner of house on top of hill, 1 mile, 163° 28′; near peak of large house on bluff, 2 miles, 222° 56′; right corner of house, 1¾ miles, 229° 09′; near peak of Leitch Wharf house, 1¼ miles, 240° 11′; left peak of Leitch house, 1¼ miles, 253° 38′; front peak of house at Buena Vista, 1¼ miles, 280° 01′; chimney outside left end of house on hill, 2 miles, 292° 17′; near peak of small house, ⅜ mile, 306° 34′.

Bon (Calvert County, O. W. Ferguson, 1907; 1908).—On the north shore of Patuxent River, about 1¼ miles west-northwest of Drum Point Light and ½ mile east-northeast of Solomons Island, in a locality called Rousby Hall. Station is on cultivated land, about 5 feet above high water, about 7 yards north of shore, about 90 yards southeast of a 1½-story house on land 10 feet higher than station, and about 75 yards south of a 1½-story brick house. Station marked underground by nozzle of bottle. Above this is 6-inch tile pipe, 20 inches long, filled with and set in cement, its top flush with ground, and large nail in center. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 0.67 meter (2.20 feet) from station in azimuth 225° 29′. Distances and azimuths from the station to other points of reference are as follows: Left end of peak of roof on house with

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piazza, 2½ miles, 8° 46′; near point of roof of Hodgdon's house with square tower, 2¼ miles, 15° 31′; chimney on end of house, ¾ mile, 60° 14′; left chimney on Weem's house, ¼ mile, 85° 54′; large chimney of W. Bowen's house, 90.66 meters (297.4 feet), 141° 57′; right chimney on wooden house, 90 yards, 150° 18′; left side of chimney on brick house, 75 yards, 176° 11′; white chimney at west end of one-story house, 71.15 meters (233.4 feet), 176° 26′; near end of peak of house on bluff between trees, ½ mile, 263° 07′; smoke pipe on oyster watch house, ½ mile, 319° 49′; left end of peak of roof on 2½-story building at Pearsons, 2¼ miles, 338° 23′.

Back (Calvert County, O. W. Ferguson, 1907).—On the eastern bank of Patuxent River, about ¼ mile above Solomons Island bridge, in a small orchard on the Strathmore place, and 4.3 meters (14 feet) from river bank. Marked by center of a 4-inch tile pipe, 20 inches long, with top about even with surface of ground. Distances and azimuths from the station of various points of reference are as follows: Southwest corner of brick foundation of large dwelling house, 46.37 meters (152.1 feet), 275° 00′; 7-inch cedar tree on lawn, 21.9 meters (71.9 feet), 287° 23′; cedar tree about 1.8 meters (6 feet) from top of bank, 23.28 meters (76.4 feet), 317° 31′; nearest apple tree in orchard, 7.47 meters (24.51 feet), about north by east.

How (St. Marys County, O. W. Ferguson, 1907).—On the southwest shore of Patuxent River, south of and directly across from Solomons Island, on a sand beach, about 12 meters back from high-water mark, and about 2 feet above high water; it is about 1,850 meters up the shore from Millstone Landing and 150 meters above the outlet to a large pond. Station is marked by tile pipe set in cement about level with surface of ground. A nail in the cement marks exact center. Distances and azimuths to points of reference are as follows: North gable of dwelling, 91° 01′; center of east one of two twin holly trees between the road and the fence, blazed with triangle into each vertex of which a nail was driven, 28.96 meters (95.0 feet), 38° 51′; center of 13-inch cedar tree on south side of road, 54° 19′; center of 14-inch cedar tree standing 9.14 meters (30.0 feet) west of entrance to dwelling, 119° 21′.

Point (Calvert County, O. W. Ferguson, 1907; 1908).—A reference mark for station *Island* of 1908 (consult index). Marked by 4-inch pipe of galvanized iron (in 1908 described as tile pipe), filled with and set in cement, its top projecting about 7 inches above surface of ground. A baking-powder bottle was set about 22 inches below the surface.

Town (St. Marys County, O. W. Ferguson, 1907; 1908).—On the southwestern shore of Patuxent River, on Town Point, about ¾ mile southeast of Point Patience, about 20 feet above high water, 9 yards west of edge of bluff, 3 yards south of edge of bluff, 10 yards southeast of extreme edge of high land, 3 yards south of a rail fence, and 2 yards north of cultivated land. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Reference mark, consisting of a spike in cement in the center of a 6-inch tile pipe, is on the south side of an old fence line, and is 13.2 meters (43.3 feet) from station in azimuth 94° 08′. Distances and azimuths to various points of reference are as follows: Cupola on Files store, ¾ mile, 267° 34′; nearest chimney on Webster's house, 1¼ mile, 281° 29′; right end of roof of 2½-story house at Pearsons, 3 miles, 306° 19′; near corner of tower on Hogdon's house, 2⅜ miles, 331° 24′; chimney on old house, 1⅜ miles, 346° 41′; chimney on house, 1 mile, 21° 16′; left chimney on Lee's house, 1½ miles, 105° 27′; Marburger's house, ¾ mile, 159° 23′.

Cable (St. Marys County, C. C. Yates, 1908).—On the southwest shore of Patuxent River, on east side of entrance to Kings Creek, and about ¾ mile west of Town Point, on pasture land near the end of high land, at the beginning of a long, low peninsula which almost closes the mouth of Kings Creek, about 30 feet above high-water mark, about 20 yards south of edge of bank on river side, about 15 yards east-northeast of edge of bank on creek side, 38 yards southeast of extreme edge of top of bank, and 30 yards west of a persimmon tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey buried with top 10 inches below surface of ground, note 16. Distances and azimuths from the station to various points of reference are as follows: Nail in blaze in 18-inch tree, 19.24 meters (63.1 feet), 34° 39′; nail in blaze in 3-inch red cedar tree, 16.80 meters (55.1 feet), 91° 42′; nail in blaze in persimmon tree, 26.22 meters (86.0 feet), 139° 09′; right

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chimney of Fenner Lee's house, ⅜ mile, 139° 31′; left chimney of house, ½ mile, 157° 41′; left chimney of Marburger's house near Point Patience, ¾ mile, 218° 42′; left chimney of Judge Crane's house, ½ mile, 271° 01′.

Peak (Calvert County, C. C. Yates, 1908).—On the northeast shore of Patuxent River, about in the middle of the inner shore of a large bay between St. Leonard and Island Creeks. Station is ball on tip of tower on Parran's house, located near shore at extreme end of a road leading to Wallville.

K. of P. Flagstaff (Solomons) (Calvert County, C. C. Yates, 1908).—On the northeastern side of Patuxent River, on Solomons Island, in the town of Solomons. Station is flagstaff in front of Knights of Pythias Building.

Fishstack (Calvert County, C. C. Yates, 1908).—On the northeastern side of Patuxent River, on northeastern side of entrance to Mill and Back Creeks, on mainland on opposite side of creek from Solomons Island. Station is center of smokestack on fish fertilizer factory.

Avondale Catholic Church cross (Calvert County, C. C. Yates, 1908).—On the northeast side of Patuxent River, about halfway back to Back Creek, and ¾ mile northwest of Solomons Wharf, in the small village of Johnstown, about 250 yards north of north end of causeway to Solomons Island. Station is center of cross on bell cupola on Catholic Church known as St. Marys Star of the Sea.

Solomons Methodist Episcopal Church (Calvert County, O. W. Ferguson, 1907; 1908).—On the northeastern shore of Patuxent River, on upper end of Solomons Island, on Patuxent Avenue, near beginning of causeway to mainland. Station is tip of pyramidal tower on Methodist Church.

Barn, east gable (St. Marys County, O. W. Ferguson, 1907).—On the western shore of Patuxent River, opposite Point Patience, about 35 meters north of road leading west from home of Mr. Lee to the public road. Station is east gable of large barn.

Grove (St. Marys County, O. W. Ferguson, 1907).—On the western shore of Patuxent River, about ½ mile above St. Cuthbert Wharf, 180 meters back from high-water mark. Station is eastern surface and cap of northeast chimney of a large dwelling house standing amongst trees.

Brooms (Calvert County, O. W. Ferguson, 1907).—On the western side of Patuxent River, on Broome Island. Station is the main chimney of prominent house near center of island.

CHOPTANK RIVER

Tilghman 3 (Talbot County, F. F. Weld, 1900).—On the southern end of Tilghman Island. In 1902 this station was searched for without success, as the various points of reference had been destroyed. The mark, however, may still exist. Station marked by a 6-inch tile pipe 2 feet long set with top 6 inches below surface of ground.

Nelson 3 (Talbot County, F. F. Weld, 1900; 1909).—On the northern shore of Choptank River, on Nelson Island, between the entrances to Harris and Broad Creeks. Station is on southwest point of island, on marshland, about 2 feet above high water, 28 yards north-northeast of extreme end of point, 45 yards northwest of edge of marsh, and 14 yards east of marsh. Station marked by a 4-inch tile pipe projecting 8 inches above the marsh; nail in stub driven inside tile marks center. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top 6 inches above ground. It is 32.27 meters (105.9 feet) from station in azimuth 212° 04′. Distances and azimuths from the station of various points of reference are as follows: Stack of cannery at Tilghman Island, 3½ miles, 97° 34′; windmill at Tilghman Island, 3½ miles, 99° 03′; chimney of house on Change Point, 1¾ miles, 129° 28′; left peak of house, 1½ miles, 141° 41′; chimney of house, 2⅝ miles, 198° 01′; left peak of building, 2⅛ miles, 237° 34′; near peak of house with three chimneys, 3 miles, 279° 09′.

Benoni 2 (Talbot County, F. F. Weld, 1900; 1909).—On the northern shore of Choptank River, on Benoni Point, at western side of entrance to Tred Avon River, and about 1⅜ miles northwest of Choptank River Light. Station is about 5 feet above high water, 9 yards south-southwest of foot of knoll and edge of marsh, 4 yards northeast of edge of bank, 25 yards east-southeast of point of bank, 30 yards north by west of point of marsh, and 100 yards southwest of a cove. Station marked by a 4-inch tile pipe with top flush with ground. Nail in stub inside of tile and projecting 4 inches above ground marks

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center. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 7.45 meters (24.44 feet) from station in azimuth 222° 02′. Distances and azimuths from the station of other points of reference are as follows: Nail in blaze in water bush, 7.68 meters (25.20 feet), 141° 08′; nail in blaze in water bush, 4.54 meters (14.89 feet), 191° 34′; near peak of small house, 1¾ miles, 205° 49′; left corner of burnt house, 2 miles, 221° 13′; peak of near gable of large house, 1¾ miles, 237° 29′; nail in blaze in water bush, 10.4 meters (34.1 feet), 248° 09′; left corner of house, 1⅞ miles, 266° 55′.

Todd 2 (Dorchester County, F. F. Weld, 1900).—On the southern shore of Choptank River, about 3 miles southwest of Choptank Lighthouse, on marsh at end of Todds Point, 36 paces from end of point, in line with bluff running to westward and 20 paces from end of it. Probably marked with a 4-inch tile pipe.

Royston 2 (Talbot County, F. F. Weld, 1900; 1902).—On north side of Choptank River, at east side of entrance to Broad Creek, on Royston Island, about 20 meters from bluff. An old house is distant about 300 meters in azimuth 218° 33′. A large pine with triangle blazed on side is distant 215 feet. Station marked with a 4-inch tile pipe, top flush with ground.

Bar (Talbot County, F. F. Weld, 1900; 1909).—On eastern side of Tilghman Island, on Upper Bar Neck Point, at western side of entrance to Harris Creek, and about 1½ miles south-southeast of Tilghman Island Wharf. Station is in cultivated field, about 6 feet above high water, 3 yards west of edge of bank, and 60 yards north of line of trees at edge of marsh. Station marked by center of 4-inch tile pipe with top about 6 inches below surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top 6 inches above ground; it is nearly on line to a large persimmon tree, and is 45.81 meters (150.3 feet) from the station, in azimuth 83° 00′. The persimmon tree, marked with a nail in a blaze, is 49.48 meters (162.3 feet) from the station, in azimuth 82° 47′. Distances and azimuths from the station of other points of reference are as follows: Nail in blaze in oak stump, 51.17 meters (167.9 feet), 1° 32′; nail in blaze in wild cherry tree, 46.66 meters (153.1 feet), 17° 13′; nail in blaze in cedar tree, 47.69 meters (156.5 feet), 26° 49′; right chimney of first house to right of woods, ⅜ mile, 143° 53′; schoolhouse cupola, 1⅜ miles, 151° 26′; stack of cannery, 1½ miles, 154° 33′; stack of cannery, 1¾ miles, 165° 24′; right chimney of house showing over woods, 2½ miles, 177° 21′; Neavitt Schoolhouse cupola, 3¾ miles, 207° 39′; chimney of house, 2½ miles, 215° 12′.

Bachelor (Talbot County, F. F. Weld, 1900; 1902).—On the north side of Choptank River, on Bachelor Point, at eastern side of entrance to Tred Avon River, 25 feet from edge of 6-foot bluff, in a cultivated field. Station marked by a cement post 4 inches square with top flush with surface of ground; the post is set inside a tile pipe, the top of which is 8 inches below surface of ground.

Chlora (Talbot County, F. F. Weld, 1900; 1909).—On the northeastern shore of Choptank River, on Chlora Point, about 1½ miles south-southeast of entrance to Island Creek, and 1½ miles northwest of entrance to La Trappe Creek. Station is about 8 feet above high water, 6 yards east-northeast of edge of bank, 9 yards south of wire fence, and 18 yards north of edge of bank at walnut tree. Station marked by a hole in center of cement-filled tile pipe 4 inches in diameter with top about 2 inches below surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It it 6.91 meters (22.67 feet) from station in azimuth 258° 43′. Distances and azimuths from the station of other points of reference are as follows: Near peak of house, 3 miles, 17° 50′; spindle on cupola, 2⅜ miles, 30° 21′; nail in blaze in 3-inch wild cherry tree, 3.11 meters (10.20 feet), 197° 36′; nail in blaze in 4-inch cedar tree, 9.01 meters (29.56 feet), 252° 28′; nail in blaze in 14-inch walnut tree, 16.70 meters (54.8 feet), 343° 09′.

Horn (Dorchester County, F. F. Weld, 1900; 1902).—On southern shore of Choptank River, at eastern side of Lecomptes Bay, on northwest corner of Horn Point, in woods, 13.9 meters (45.6 feet) west by north of blazed gum tree, and 4 meters from north bank. Marked by a 4-inch tile pipe with top just below surface of ground.

Howells (Talbot County, F. F. Weld, 1900; 1909).—On northern shore of Choptank River, on Howells Point, about 1⅝ miles east of Horn Point, and 2

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miles northwest of Hambrooks Bar Beacon, on long grassy grave. point, about 3 feet above high water, 50 yards south-southeast of old fish shanty and trees, 25 yards south of highest level part of land, 11 yards west of shore, 3 yards east of shore, and ¼ mile north of extreme end of point. Station marked by nail in center of cedar stub in center of 4-inch tile pipe set with top of pipe 4 inches below surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 22.82 meters (74.9 feet) from the station in azimuth 197° 53′. Distances and azimuths from the station to other points of reference are as follows: Spindle on barn cupola, 1¾ miles, 35° 48′; nail in blaze in 15-inch dead locust tree, 9.83 meters (32.25 feet), 183° 48′; nail in blaze in 3-inch locust tree, 13.67 meters (44.8 feet), 192° 28′; nail in blaze in 11-inch pin oak tree, 27.28 meters (89.5 feet), 196° 25′; south peak of Kirby Wharf house, 2 miles, 271° 01′; flagstaff on boathouse, 1⅝ miles, 315° 45′.

Jenkins (Dorchester County, F. F. Weld, 1900).—On southern shore of Choptank River, on high bluff, ¼ mile west of Jenkins Creek, 5 paces from bluff, and 18 meters east of triangle blazed on gumbo tree in hedge row. Station marked by nail in cedar post set inside a drain tile, the drain tile being 18 inches below surface of ground.

Hambrook (Dorchester County, F. F. Weld, 1900).—On southern shore of Choptank River, on marsh point on Hambrook Bar, 37 paces north of two small cedar trees at edge of hard ground. Marked by nail in cedar post inside a drain tile pipe, pipe being set 18 inches below surface of ground.

Kirby (Talbot County, F. F. Weld, 1900).—On the northern shore of Choptank River, about the middle of a high bluff, ½ mile west of Kirbys Wharf, being the first high bluff east of Howells Point. Station is 9 meters north of a reference stake set at edge of bluff. Stake is marked with a rough blazed triangle. Station marked by nail in cedar post set in drain tile pipe, pipe being 18 inches below surface of ground.

Pine (Talbot County, F. F. Weld, 1900).—On northern side of Choptank River, on point opposite Cambridge, in edge of a cultivated field, 6 meters north of a tree and 25 paces southwest of large cherry tree in fence. Station marked by a drain tile set 18 inches below surface and a nail in a cedar post for surface mark. *Searched for in 1902 and not found.*

Shoal (Dorchester County, F. F. Weld, 1900; 1910).—On southern shore of Choptank River, near entrance to small creek about 1 mile east-southeast of Cambridge and 1⅝ miles west-southwest of Chancellors Point. Station is in woods on point of land about 10 feet above high water, 50 yards east of edge of bank, 6 yards southwest of wire fence at edge of highland, 7 yards south of wire fence, 11 yards west of wire fence, 13 yards west-southwest of large double oak tree, and 90 yards east of a marsh point at creek. Station marked by center of tile pipe with top 6 inches below surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 6.08 meters (19.95 feet) from station in azimuth 23° 44′. Distances and azimuths to other points of reference are as follows: Nail in blaze in 17-inch black walnut tree, 3.19 meters (10.47 feet), 77° 47′; flagstaff on boathouse, 2½ miles, 132° 11′; spindle of barn cupola, 1¾ miles, 194° 59′; left chimney of house, 2 miles, 217° 37′; near peak of barn with cupola, 1¾ miles, 239° 39′; nail in blaze in large double oak tree, 11.31 meters (37.1 feet), 253° 31′; nail in blaze in 8-inch black walnut tree, 10.96 meters (36.0 feet), 339° 22′; nail in blaze in 6-inch cedar tree, 8.05 meters (26.4 feet), 357° 55′.

Ferry (Dorchester County, F. F. Weld, 1900; 1910).—On the southern shore of Choptank River, near east side of entrance to Hurst Creek, and about 2½ miles east of Cambridge. Station is on sand beach, about on level with high water, 92 yards east-northeast of Hurst Creek, 1 yard southeast of shore, and 6 to 10 yards northwest to north of several low cedar trees. Station marked by nail in pine stub in center of 2-inch tile pipe, top of pipe being 6 inches below surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 16.74 meters (54.9 feet) from the station, in azimuth 309° 48′. Distances and azimuths from the station to other points of reference are as follows: Nail in blaze in 16-inch cedar tree, 9.76 meters (32.02 feet), 18° 28′; chimney of house, 1¾ miles, 76° 49′; near peak of large house with cupola, 1 mile, 178° 16′; near peak of barn cupola, 2 miles, 198° 01′; near peak of Jamaica Point Wharf house, 3⅝ miles, 215° 02′; nail in blaze in 11-inch cedar tree, 6.82 meters (22.38 feet), 291° 46′; nail in blaze in 8-inch cedar tree, 8.32 meters (27.30 feet), 341° 22′.

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Chancellor (Talbot County, F. F. Weld, 1900; 1909).—On the northern shore of Choptank River, on Chancellors Point, about ¾ mile north of entrance to Hurst Creek, and ¾ mile southeast of entrance to Bolingbroke Creek. Station is on sand and grass point, about 1 foot above high water, 35 yards west of shore, 35 yards northeast of shore, 60 yards north by west of extreme end of point, 13 yards south of line of cedar stumps, 27 yards southeast of large lone pine tree, and almost on range with Cambridge Standpipe and left peak of hospital. Station marked by nail in cedar stub in center of 4-inch tile pipe with top flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 4.70 meters (15.42 feet) from station in azimuth 148° 29′. Distances and azimuths from the station of other points of reference are as follows: Chimney on left end of house, 1¼ miles, 00° 44′; chimney of house, 1⅝ miles, 46° 52′; nail in blaze in small pine tree, 23.26 meters (76.3 feet), 68° 05′; left peak of hospital, 2¼ miles, 77° 06′; nail in blaze in 16-inch lone pine tree, 24.74 meters (81.2 feet), 149° 00′; southeast corner of square cupola, 350 yards, 193° 45′; nail in blaze in 16-inch cedar stump, 12.40 meters (40.7 feet), 200° 33′; chimney of house, 1¼ miles, 294° 38′; near peak of house, 1⅛ miles, 323° 53′.

Shell (Dorchester County, F. F. Weld, 1900; 1910).—On southeastern shore of Choptank River, on Oystershell Point, about ¾ mile south of Goose Point and 1½ miles east-northeast of Chancellors Point, on marsh, about 1 foot above high water, 100 yards north of rail fence, 55 yards southwest of shore, 75 yards south of shore, 400 yards west of a wharf, 250 yards west by north of a small house near the shore, and 50 yards west by north of corner of fence. Station marked by nail in cedar stub flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 2.27 meters (7.45 feet) from station in azimuth 96° 53′. Distances and azimuths to other points of reference are as follows: Lone tree, 225 yards, 71° 07′; right corner of square cupola, 1½ miles, 81° 19′; chimney of left end of house, 1⅛ miles, 125° 05′; near peak of large house, 1⅞ miles, 192° 48′; near peak of Jamaica Point Wharf house, 1⅞ miles, 200° 12′; right peak of building, 2⅝ miles, 219° 24′; chimney of house, 1¼ miles, 247° 15′; smoke pipe on wharf house, ¼ mile, 263° 08′; near peak of shed, 150 yards, 307° 35′; near peak of house, 300 yards, 322° 01′.

Goose (Talbot County, F. F. Weld, 1900).—On the northwest shore of Choptank River, on Goose Point, on a sand beach among water bushes between marsh and shore, about 150 meters north of woods, and 100 meters south of a fence. Marked by a nail in a 6-inch cedar post 2 feet long with top even with surface of ground.

War (Dorchester County, F. F. Weld, 1900; 1910).—On the eastern shore of upper Choptank River, on southern side of entrance to Warwick River, about ¾ mile east-southeast of Jamaica Point, on northern side of a point of marsh, about 1 foot above high water, 45 yards south of shore, 35 yards southeast of shore, 45 yards east of shore, and 35 to 45 yards southwest to west of woods. Station marked by nail in 6-inch cedar post, 2 feet long, with top even with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 4.95 meters (16.24 feet) from station in azimuth 347° 42′. Distances and azimuths to other points of reference are as follows: Chimney of house, 1 mile, 4° 33′; chimney of house, 2 miles, 28° 38′; smoke pipe on wharf house, 1¾ miles, 34° 26′; left chimney of small house, 2 miles, 37° 31′; left peak of house, 1⅛ miles, 77° 37′; right corner of very wide chimney on brick house, 1 mile, 107° 37′; left peak of Jamaica Point Wharf house, ⅝ mile, 116° 27′; chimney of house, 1¾ miles, 144° 16′; near peak of house, 2⅜ miles, 168° 26′; nail in blaze in 10-inch pin oak tree, 42.26 meters (138.6 feet), 197° 36′; nail in blaze in 11-inch pine tree, 41.75 meters (137.0 feet), 223° 57′; nail in blaze in 12-inch pine tree, 31.45 meters (103.2 feet), 256° 44′; nail in blaze in 12-inch pine tree, 30.11 meters (98.8 feet), 278° 34′.

Wick (Dorchester County, F. F. Weld, 1900; 1910).—On the eastern shore of upper Choptank River, on northern side of entrance to Warwick River and about ¾ mile northeast of Jamaica Point, on a sandy ridge between beach and marsh, about 2 feet above high water, 8 yards northeast of shore, 10 yards north of shore, 9 yards east of shore, 100 yards southeast by east of extreme end of point, and 35 yards northwest of two pine trees. Station marked by nail

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in 6-inch cedar post, 2 feet long, with top even with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 8.26 meters (27.10 feet) from the station in azimuth 205° 00′. Distances and azimuths to other points of reference are as follows: Near peak of house in trees, ⅞ mile, 00° 13′; smoke pipe on wharf house, 2⅜ miles, 25° 06′; tangent to Goose Point, 1⅞ miles, 43° 48′; right peak of Jamaica Point Wharf house, ⅝ mile, 60° 22′; right corner of very wide chimney on brick house, ⅞ mile, 66° 35′; left corner of cupola on roof, 1⅛ miles, 113° 03′; near peak of house, 2⅜ miles, 164° 53′; nail in blaze in 12-inch pine tree, 30.06 meters (98.6 feet), 294° 52′; right pine tree, 400 yards, 323° 46′.

Peach (Talbot County, F. F. Weld, 1900; 1902).—On western side of Choptank River, on small point directly opposite mouth of Cabin Creek, in rushes just inside a duck blind, 4 paces from shore line, 12.7 meters (41.7 feet) from small locust tree (one of twin trees) back of marsh and marked with roughly blazed triangle. Station marked by 6-inch cedar post 18 inches long, set with top even with surface of ground.

Cabin (Dorchester County, F. F. Weld, 1900; 1902).—On eastern side of Choptank River, in the marsh at southern side of entrance to Cabin Creek, about 150 meters from pine woods and 29 paces from shore line. Station marked by nail in 6-inch cedar post, 18 inches long, set with top even with surface of ground.

Change (1910) (Talbot County, C. C. Yates, 1910).—On the eastern shore of Harris Creek, on Change Point, about 1½ miles east of Knapps Narrows, in a cultivated field about 8 feet above high water, 45 yards north-northeast of extreme end of point, 55 yards northwest of edge of bank, 35 yards east of edge of bank, 70 yards southeast by south of corner of wire fence, and 70 yards south-southwest of wire fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of house, 2½ miles, 35° 43′; near peak of house, 2½ miles, 64° 08′; near peak of storehouse on Tilghman Island Wharf, 1¾ miles, 69° 55′; near peak of house, 2⅛ miles, 77° 40′; near chimney of brick house, 2⅛ miles, 157° 37′; right chimney of house, ¼ mile, 225° 33′; near peak of house, ⅛ mile, 254° 23′.

Chef (Dorchester County, C. C. Yates, 1909).—On the eastern shore of Chesapeake Bay, on Cooks Point, at southern side of entrance to Choptank River, about 4 miles east of Sharps Island, in cultivated field about 8 feet above high water, 30 yards inside of fringe of trees parallel with shore, 45 yards southwest of eastern end of fringe of trees, 70 yards east of western end of fringe of trees, and 190 yards north of gate in fence running east and west. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right peak of hotel on Sharps Island, 4 miles, 77° 26′; nail in blaze in 4-inch wild cherry tree, 31.43 meters (103.1 feet), 114° 40′; nail in blaze in 5-inch locust tree, 28.53 meters (93.6 feet), 142° 08′; nail in blaze in 5-inch locust tree, 29.94 meters (98.2 feet), 175° 02′; nail in blaze in 6-inch locust tree, 43.16 meters (141.6 feet), 195° 50′; lone persimmon tree, 231 yards, 261° 46′; right chimney outside of house, 2¼ miles, 290° 01′; chimney on right one of two houses, ¼ mile, 318° 36′; right peak of barn, ¼ mile, 347° 18′.

Dot (Dorchester County, C. C. Yates, 1909).—On the southern shore of Choptank River, about 3½ miles southwest of Choptank River Light, on Todd Point, about 4 feet above high water, 55 yards west-southwest of shore, 30 yards south-southwest of edge of bank, 40 yards south by east of point where bank meets marsh, 70 yards south by west of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney outside of near end of house, 200 yards, 51° 51′, left chimney of house on Cooks Point, 2¾ miles, 88° 50′; cupola of house, 3⅝ miles, 209° 28′; near peak of house, 2¾ miles, 279° 11′; near peak of building, 2¼ miles, 309° 15′; chimney outside right of end of house, 1⅜ miles, 338° 44′.

Roys (Talbot County, C. C. Yates, 1909).—On the northeastern side of Choptank River, on the southern end of Royston Island, about ½ mile southwest of the entrance to Irish Creek, about 5 feet above high water, 15 yards north of

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shore, 25 yards east of shore, and 25 yards northeast of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Peak of large barn, 4½ miles, 5° 07′; right peak of barn, 5¾ miles, 26° 31′; windmill, 5¾ miles, 26° 39′; church spire, 6 miles, 90° 06′; church spire, 6 miles, 90° 10′; large spire, 6 miles, 90° 20′; windmill, 5¾ miles, 101° 30′; chimney of house, 3 miles, 125° 26′; near peak of large barn, 3½ miles, 155° 51′; nail in blaze in 3-inch oak tree, 10.64 meters (34.9 feet), 171° 06′; nail in blaze in 3-inch oak tree, 6.22 meters (20.41 feet), 236° 47′; nail in blaze in 5-inch cedar tree, 15.92 meters (52.2 feet), 313° 52′.

Black (Talbot County, C. C. Yates, 1909).—On the eastern shore of Chesapeake Bay, about 2¾ miles northeast of Sharps Island Light, on Blackwalnut Point at north side of entrance to Choptank River, in cultivated land, about 8 feet above high water, 35 yards east-northeast of edge of bank, 45 yards west of edge of bank, 65 yards northwest of edge of bank, and 130 yards south of lone apple tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of old hotel building on Sharps Island, 3½ miles, 21° 24′; near peak of old house, ½ mile, 166° 47′; lone apple tree, 131 yards, 176° 53′; chimney of house among trees, 1¾ miles, 189° 15′; right chimney of house near water, 1 mile, 207° 08′; left chimney of house, 3⅞ miles, 313° 49′.

Jere (Talbot County, C. C. Yates, 1909).—At the eastern side of Chesapeake Bay, on Sharps Island, about 1½ miles south-southeast of Sharps Island Light. Station is on hard ground, about 7 feet above high water, 95 yards south-southeast of old hotel building, 95 yards west-southwest of shore, 150 yards southwest of a point, and in such a position that Sharps Island Light shows to the right of old hotel building. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near corner of house, 95 yards, 142° 53′; church cupola, 5¼ miles, 202° 30′; chimney on left end of roof of large house, 5 miles, 203° 38′; chimney of large house, 4¼ miles, 260° 19′; large chimney of large house, 4¾ miles, 271° 40′; chimney on right end of large house, 5⅝ miles, 298° 15′.

Corner (Dorchester County, C. C. Yates, 1909).—On the southern shore of Choptank River, about 3 miles south-southwest of Choptank River Light, on east side of entrance to Chapel Creek, on grassy land about 3 feet above high water, 30 yards east of shore, 30 yards south of shore, 35 yards southeast of extreme end of point, and west of a small clump of pine trees. Station is center point of standard cement monument of Maryland Shell Fish Survey, note 16, projecting 5 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of 2½-story house, ⅞ mile, 69° 42′; chimney outside right end of house, 2 miles, 101° 50′; chimney outside near end of house, 2¼ miles, 118° 03′; nail in blaze in 14-inch holly tree, 13.81 meters (45.3 feet), 156° 31′; nail in blaze in 4-inch pine tree, 3.57 meters (11.71 feet), 226° 20′; right corner of new house, ½ mile, 229° 59′; nail in blaze in a 5-inch pine tree, 8.21 meters (26.94 feet), 308° 37′.

Enter (Talbot County, C. C. Yates, 1909).—On the northern shore of Island Creek, on point at east side of entrance to small cove, about ⅛ mile northeast of Choptank River and 1⅜ miles east-northeast of Choptank River Light, in a cultivated field, about 6 feet above high water, 16 yards north of edge of bank of creek, 18 yards south-southeast of edge of bank of cove, 30 yards east-northeast of outlet of cove, and 250 yards west by south of frame house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 4-inch locust tree, 23.93 meters (78.5 feet), 69° 14′; nail in blaze in 6-inch locust tree 39.96 meters (131.1 feet), 139° 06′; nail in blaze in 10-inch cedar tree, 16.91 meters (55.5 feet), 181° 17′; left corner of left chimney of house, 2 miles, 189° 35′; left corner of house, ⅛ mile, 245° 35′; near corner of house, 1½ miles, 276° 11′.

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Boone (Talbot County, C. C. Yates, 1909).—On the northeastern shore of Choptank River, about ⅜ mile northwest of entrance to Boone Creek, ½ mile southeast of Bachelor Point, and 1⅛ miles northeast of Choptank River Light, about 5 feet above high water, 13 yards northeast of edge of tree-fringed bank, 60 yards south-southwest of right corner of house, and 50 yards south-southeast of large apple tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 5-inch locust tree, 10.26 meters (33.7 feet), 54° 54′; nail in blaze in 10-inch locust tree, 20.59 meters (67.6 feet), 99° 25′; near peak of house, ¼ mile, 141° 53′; right corner of house, 57 yards, 193° 06′; near peak of house, ¾ mile, 229° 22′; nail in blaze in 4-inch locust tree, 13.02 meters (42.7 feet), 357° 08′.

Castle (Dorchester County, C. C. Yates, 1909).—On the southern shore of Choptank River, on Castlehaven Point, at north side of Castlehaven Creek, about 2 miles south-southwest of Choptank River Light. Station is on a narrow neck of land, about 25 yards south-southwest of shore of Choptank River, 20 yards north of shore of cove, 22 yards west of bathhouse, and 100 yards east-northeast of three poplar trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right peak of boathouse at Castlehaven wharf, ⅛ mile, 9° 23′; right corner of chimney of brick house, ⅛ mile, 49° 37′; right corner of house near Bachelor Point, 3 miles, 173° 46′; left corner of bathhouse, 21.42 meters (70.3 feet), 249° 50′; near corner of bathhouse, 19.83 meters (65.1 feet), 263° 51′; near peak of house, 3 miles, 277° 15′.

Trappe (Talbot County, C. C. Yates, 1909).—On the northern shore of Choptank River, at west side of entrance to La Trappe Creek, about 1½ miles southeast of Chlora Point, on a grassy gravel point about 3 feet above high water, 4 yards north of shore, 6 yards east-northeast of shore, and 17 yards south by east of large cedar tree. Station mark is center of 2-inch tile pipe projecting 2 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe buried with top 2 inches below base of surface pipe. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 12.62 meters (41.4 feet) from station in azimuth 195° 14′. Other distances and azimuths are as follows: Northerly peak of Travers Wharf house, 2⅞ miles, 41° 22′; center of smaller water tank, 2⅝ miles, 86° 09′; nail in blaze in 20-inch cedar tree, 7.23 meters (23.72 feet), 139° 58′; nail in blaze in 22-inch cedar tree, 15.99 meters (52.5 feet), 198° 31′; cedar tree, 35 yards, 216° 12′; red beacon, ¼ mile, 301° 57′; right chimney of house, 3 miles, 335° 23′.

Toot (Dorchester County, C. C. Yates, 1909).—On the southern shore of Choptank River, on Horn Point, about 1⅝ miles west of Howells Point, and at eastern side of entrance to Lecomptes Bay, in woods, about 7 feet above high water, 15 yards south of shore, 13 yards southwest of shore, and 20 yards west of shore, and near but not on highest point of ground. Station mark is nail in center of stub in 2-inch tile pipe projecting 2 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe buried with top 2 inches below base of surface tile. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 12.38 meters (40.6 feet) from the station in azimuth 33° 34′. Other distances and azimuths are as follows: Nail in blaze in oak tree (20 inches diameter), 16.89 meters (55.4 feet), 32° 43′; chimney of house, 1½ miles, 79° 06′; chimney outside of house, 1⅝ miles, 117° 04′; near corner of boathouse, 2⅛ miles, 137° 37′; east peak of large barn, 2¼ miles, 202° 47′; large chimney of house, 2½ miles, 214° 09′; red beacon, 2 miles, 217° 13′; near peak of house, 2 miles, 234° 23′; nail in blaze in elm tree, 5.48 meters (17.98 feet), 293° 27′; nail in blaze in oak tree (24 inches diameter), 4.70 meters (15.42 feet), 346° 32′.

Howard (Dorchester County, C. C. Yates, 1909).—On the southern shore of Choptank River, 2 miles southeast of Horn Point and about ¼ mile northwest of entrance to Jenkins Creek, on cultivated land, on a bluff about 12 feet above high water, 25 yards southwest of edge of bluff, 30 yards south of edge of bluff, 35 yards west of edge of bluff, 45 yards west-northwest of corner of fence dividing field from marsh, and 65 yards northeast of the south one of two small poplar trees in field. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of

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2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of barn, ¼ mile, 28° 49′; right peak of house, ¼ mile, 100° 48′; right peak of old house, 1½ miles, 134° 48′; near peak of barn, 3½ miles, 174° 06′; red beacon, 2⅞ miles, 177° 58′; near peak of low house in trees, 3¼ miles, 223° 38′; near peak of Kirby Wharf house, 3 miles, 234° 39′; left chimney of house, 1 mile, 258° 46′; nail in blaze in 8-inch locust tree, 37.49 meters (123.0 feet), 269° 38′; nail in blaze in locust tree, 45.66 meters (149.8 feet), 288° 21′; nail in blaze in locust tree, 63.83 meters (209.4 feet), 332° 09′.

Command (Dorchester County, C. C. Yates, 1909).—On the southern shore of Choptank River, about ½ mile west-southwest of Hambrooks Bar Beacon and 1½ miles northwest of Cambridge Wharf, on a marsh point inside of fence line, about 2 feet above high water, 18 yards southeast of shore, 16 yards south of shore, 25 yards southwest of shore, and 150 yards northwest of a boathouse. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in fence post, 10.85 meters (35.6 feet), 135° 53′; near peak of large building, 2¼ miles, 147° 05′; nail in blaze in fence post, 11.01 meters (36.1 feet), 195° 28′; left chimney of house with three dormer windows, 1⅞ miles, 198° 48′; near peak of Kirby Wharf house, 1½ miles, 217° 00′; near peak of large house, 3 miles, 283° 30′; flagstaff on boathouse, 150 yards, 313° 40′; nail in blaze in fence post, 17.23 meters (56.5 feet), 98° 46′; left chimney of old house, 2¾ miles, 102° 13′.

Red (Talbot County, C. C. Yates, 1909).—On the northern shore of Choptank River, at eastern side of Dickinsons Bay, about 1⅝ miles east-northeast of Howells Point and ¾ mile northwest of Kirby Wharf, on cultivated land, on first high bluff upstream from Howells Point, about 12 feet above high water, 8 yards northeast of edge of bank, 10 yards north of edge of bank, and 10 yards east of edge of bank. Station mark is nail in stub in center of 2-inch tile pipe, with top of pipe 6 inches below surface of ground. Subsurface mark is center of 2-inch tile pipe buried, with top 2 inches below base of the surface mark. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 5 inches above surface of ground. It is 23.63 meters (77.5 feet) from station in azimuth 225° 37′. Other distances and azimuths are as follows: Center of silo tower, 3 miles, 47° 59′; near peak of barn with two cupolas, 1 mile, 144° 49′; east chimney of house, ¼ mile, 225° 59′; near peak of large barn, ¾ mile, 278° 28′; right peak of Kirby Wharf house, ⅝ mile, 304° 47′; near peak of hospital, 3¼ miles, 345° 00′.

Double (Talbot County, C. C. Yates, 1909).—On the northern shore of Choptank River, nearly opposite Cambridge, about 1 mile northwest of entrance to Bolingbroke Creek and 1½ miles east of Hambrooks Bar Beacon, on a point of marsh separated from a field by a row of locust trees about 12 yards northeast of shore, 20 yards north of shore, 14 yards east of shore, and 30 yards south of large wild-cherry tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Spindle on cupola, 2 miles, 20° 28′; near peak of hospital, 1¾ miles, 27° 25′; chimney of house, 2⅛ miles, 140° 07′; nail in blaze in wild-cherry tree (24 inches diameter), 26.69 meters (87.6 feet), 174° 41′; nail in blaze in locust tree (5 inches diameter), 24.92 meters (81.8 feet), 209° 44′; chimney outside of near end of house, ½ mile, 210° 02′; nail in blaze in wild-cherry tree (4 inches diameter), 34.66 meters (113.7 feet), 239° 54′; spindle on barn cupola, ½ mile, 280° 56′; chimney on house, 2¼ miles, 353° 20′.

Cambridge (Dorchester County, C. C. Yates, 1909).—On the southern shore of Choptank River, ¾ mile southeast of Hambrooks Bar Beacon, and ½ mile northwest of Cambridge (steamer) Wharf, on a marsh point about 1 foot above high water, 30 yards west of shore, 35 yards south of shore at cut, 40 yards southwest of shore, and 3 yards southwest of barb-wire fence running northwest and southeast. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Weather vane on hotel, ½ mile, 5° 15′; chimney of house, ¾ mile, 97° 42′; flagpole, ¾ mile, 123° 48′; flagpole on boathouse, ¾ mile, 129° 03′; southwest peak of Kirby Wharf house, 1¾ miles, 188° 06′; chimney

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outside of south end of house, 1⅞ miles, 236° 39′; near one of four chimneys on large square house, 2¼ miles, 263° 05′; right chimney of large house on Chancellors Point, 2¾ miles, 276° 06′.

Boling (Talbot County, C. C. Yates, 1909).—On the northern shore of Choptank River, on an island in the entrance to Bolingbroke Creek, about ¾ mile northwest of Chancellors Point, and 2 miles east-northeast of Cambridge. Station is in rushes on sandy marsh, about 3 feet above high water, 6 yards northeast of shore, 7 yards north of shore, 8 yards east of shore, and 160 yards northwest by north of entrance to Bolingbroke Creek. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 11-inch cedar tree, 4.56 meters (14.96 feet), 4° 45′; chimney of house, 1⅝ miles, 17° 29′; chimney on outside of left end of mansard-roof house, 2⅞ miles, 97° 30′; flagpole on boathouse, 2¾ miles, 101° 24′; nail in blaze in 8-inch cedar tree, 26.53 meters (87.0 feet), 198° 59′; nail in blaze in old 13-inch cedar stump, 5.29 meters (17.36 feet), 255° 58′; near peak of barn cupola, 1¾ miles, 313° 33′; near peak of barn, 1½ miles, 334° 33′; chimney of house, 1½ miles, 358° 53′.

Rear (Talbot County, C. C. Yates, 1909).—On the northern shore of Choptank River, about ⅛ mile northwest of Chancellors Point, and ½ mile southeast of entrance to Bolingbroke Creek, in a cultivated field, on a bluff about 12 feet above high water, 65 yards north of edge of bank, 110 yards northeast of edge of bank and trees, 160 yards east of edge of bank, and 95 yards northwest of bottom of gully. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile, note 17. Distances and azimuths to various points of reference are as follows: Left peak of large barn, 1¾ miles, 32° 41′; barn cupola, 2 miles, 69° 44′; Chimney of house, 1¼ miles, 135° 37′; chimney outside near end of house, 1¾ miles, 144° 00′; near corner of square cupola, ¼ mile, 243° 13′; chimney of house, 1½ miles, 293° 38′; near peak of barn cupola, 1¼ miles, 320° 22′; near peak of large barn, 1⅜ miles, 351° 30′.

Whitehall (Dorchester County, C. C. Yates, 1909).—On the southeastern shore of Choptank River, about ⅝ mile southwest of Oystershell Point, and 1⅛ miles east of Chancellor Point, on a marsh point among water bushes, about 12 yards south-southeast of shore, 13 yards south-southwest of shore, and 15 yards east-southeast of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of house, 2¾ miles, 65° 58′; right of square cupola, 1⅛ miles, 101° 24′; left chimney on long house, 1¼ miles, 155° 06′; chimney outside near end of house, 1⅞ miles, 192° 28′; near peak of large building, 2⅜ miles, 199° 39′; front peak of Jamaica Point Wharf house, 2½ miles, 205° 08′.

Barber (Talbot County, C. C. Yates, 1909).—On the northwestern shore of the upper part of Choptank River, about 1 mile north-northeast of Chancellors Point and about ⅞ mile west-southwest of Goose Point, on marsh, about 2 feet above high water, 12 yards north-northwest of county road and shore, 45 yards west-southwest of a cabin on the county road, 25 yards west of two cedar trees just across road, and 65 yards south of a wire fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney on left end of house, 2¼ miles, 12° 30′; near peak of house with square cupola, ⅞ mile, 29° 22′; large lone tree, 350 yards, 104° 29′; nail in blaze in 5-inch cedar tree, 36.42 meters (119.5 feet), 105° 48′; nail in blaze in 5-inch persimmon tree, 36.01 meters (118.1 feet), 219° 01′; near corner of barn, 21.96 meters (72.0 feet), 243° 04′; nail in blaze in 10-inch cedar tree, 20.12 meters (66.0 feet), 255° 06′; nail in blaze in 10-inch cedar tree, 19.17 meters (62.9 feet), 260° 54′; smoke pipe on wharf house, 1½ miles, 291° 37′; near peak of house, 1½ miles, 312° 55′; northwest peak of house, 1¾ miles, 348° 11′.

Duck (Talbot County, C. C. Yates, 1909).—On the northern shore of Choptank River, on Goose Point, ¾ mile north of Oystershell Point, and 1¾ miles northeast of Chancellors Point, on the edge of sand beach on lower part of point, about on level with high water, 15 to 20 yards southeast of group of cedar and persimmon trees. Station mark is center of 2-inch tile pipe project-

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ing 5 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe buried with top 2 inches below base of surface pipe. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 12.61 meters (41.4 feet) from station in azimuth 151° 41′. Other distances and azimuths are as follows: Left peak of barn cupola, 2 miles, 16° 15′; near corner of square chimney of house, 2¾ miles, 29° 57′; chimney of house, 4 miles, 48° 44′; near corner of square cupola on house, 1⅝ miles, 53° 10′; nail in blaze in 2-inch persimmon tree, 21.22 meters (69.6 feet), 94° 54′; nail in blaze in 3-inch persimmon tree, 15.20 meters (49.9 feet), 153° 43′; nail in blaze in 3-inch cedar tree, 14.28 meters (46.9 feet), 188° 21′; left peak of large barn, 1¾ miles, 261° 55′; center of roof of house, 1⅜ miles, 298° 25′; smoke pipe on wharf house, ⅞ mile, 331° 46′.

Chief (Dorchester County, C. C. Yates, 1909).—On the southeast shore of Choptank River on a narrow neck of land between the river and Indian Creek, and about 1 mile east of Oystershell Point. Station is on a grass strip, about 2 feet above high water, 15 yards south of river shore, 11 yards north of creek shore, 20 yards southeast of river shore, and 25 yards southwest of river shore. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 8-inch cedar tree, 13.81 meters (45.3 feet), 73° 16′; near peak of cottage, 1 mile, 83° 49′; smoke pipe on wharf house, ¾ mile, 85° 53′; nail in blaze in 3-inch locust tree, 11.76 meters (38.6 feet), 98° 48′; right corner of railing on house, 2 miles, 163° 43′; near peak of house, 3⅝ miles, 176° 58′; right corner of square chimney, ½ mile, 199° 58′; near corner of barn, ¼ mile, 229° 16′; nail in blaze in 6-inch cedar tree, 22.07 meters (72.4 feet), 252° 18′; stack of cannery, ⅜ mile, 294° 07′; peak of house between two chimneys, ¼ mile, 338° 43′.

Gander (Dorchester County, C. C. Yates, 1909).—On the southeastern shore of Choptank River, ⅜ mile southwest of entrance to Goose Creek, about 1⅜ miles east-northeast of Oystershell Point, and about 1⅛ miles south-southeast of Jamaica Point, in an uncultivated field, on a bank about 6 feet above high water, 19 yards east of edge of bank, 33 yards northeast of edge of bank, 33 yards southeast of edge of bank, and 155 yards west of two large cedar trees at a paling fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of house, 1¼ miles, 38° 06′; smoke pipe on wharf house, 1⅛ miles, 49° 58′; chimney of house, 4½ miles, 59° 44′; chimney outside of house, 1¼ miles, 123° 23′; right chimney of house, 1¼ miles, 145° 32′; near peak of Jamaica Point Wharf house, 1⅛ miles, 156° 58′; chimney of house, 2⅜ miles, 158° 38′; chimney of house, 3¼ miles, 174° 08′; tangent of point, ¾ mile, 182° 34′; right end of roof of long barn, ⅝ mile, 244° 48′; black walnut tree, 200 yards, 292° 20′; chimney of house, ¼ mile, 354° 43′.

Jam (Talbot County, C. C. Yates, 1909).—On the western shore of Choptank River, opposite entrance to Warwick River, on Jamaica Point, a marsh point, about 3 feet above high water, 25 yards west-northwest of end of wharf, 7 yards north of county road, 11 yards northeast of county road, 13 yards south of shore, 8 yards west-southwest of shore, and 30 yards north by east of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of house, 2¼ miles, 7° 58′; near peak of house near wharf, 2 miles, 16° 28′; near peak of barn cupola, 2½ miles, 23° 37′; near corner of fence, ¼ mile, 74° 45′; chimney outside near end of house, 2 miles, 181° 40′; chimney on large house, 2 miles, 184° 53′; chimney of house, 1⅛ miles, 247° 53′; left chimney of large brick house, 1½ miles, 255° 14′; left corner of wharf house, 49.81 meters (163.4 feet), 261° 04′; right corner of wharf house, 46.85 meters (153.7 feet), 273° 21′; nail in first plank on level part of wharf, 24.94 meters (81.8 feet), 275° 11′; near peak of large barn, 1½ miles, 310° 03′; chimney of house, 2 miles, 336° 37′.

Saw (Dorchester County, C. C. Yates, 1909).—On the eastern shore of Choptank River, about ½ mile northeast of entrance to Warwick Creek, and 1 mile northeast by east of Jamaica Point, on marsh point, about 1 foot above high water, 22 yards east of shore, 26 yards southeast of shore, 37 yards northeast

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of shore, and 200 yards west-northwest of dense woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right peak of Jamaica Point Wharf house, 1 mile, 43° 58′; left corner of very wide chimney on brick house, 1¼ miles, 51° 15′; right corner of railing on roof of house, 1⅛ mile, 89° 37′; chimney of house, 1¼ miles, 105° 45′; near peak of house, 1¼ miles, 154° 05′; chimney outside left end of house, 2 miles, 171° 43′; cupola or steeple, 5 miles, 200° 05′; near corner of brick house, ½ mile, 330° 52′.

Bank (Talbot County, C. C. Yates, 1909).—On the western shore of the upper part of Choptank River, about 1 mile north-northwest of Jamaica Point, and 1¼ miles southwest of entrance to Cabin Creek, in a cultivated field on a tree-fringed bluff, about 20 feet above high water, 10 yards northwest of edge of bluff, 10 yards west of edge of bluff, and 12 yards north of edge of bluff. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 7-inch cedar tree, 21.11 meters (69.3 feet), 0° 26′; front peak of house, ⅛ mile, 7° 55′; left chimney of modern house, 1¼ miles, 205° 21′; nail in blaze in branch of double oak tree (12 and 18 inches diameter), 7.03 meters (23.06 feet), 234° 23′; chimney of house in woods, 1½ miles, 253° 56′; chimney of shanty in woods, 1⅛ miles, 285° 33′; chimney of house, 1¾ miles, 302° 49′; nail in blaze in 8-inch oak tree, 8.55 meters (28.05 feet), 323° 39′.

Raccoon (Talbot County, C. C. Yates, 1909).—On the western shore of the upper part of Choptank River, about ⅜ mile south of entrance to small creek, 1½ miles north of Jamaica Point, and 1 mile west of entrance to Cabin Creek, between two clumps of trees, on sandy marsh, about 2 feet above high water, 8 yards northwest of shore, 12 yards west of shore, 16 yards north of shore, and 200 yards southwest of woods beyond marsh. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left corner of house, 1 mile, 16° 46′; nail in blaze in 10-inch oak tree, 12.66 meters (41.5 feet), 27° 38′; nail in blaze in 12-inch pine tree, 37.12 meters (121.8 feet), 77° 02′; nail in blaze in 10-inch oak tree, 26.50 meters (86.9 feet), 202° 02′; chimney outside near end of house, ⅝ mile, 222° 20′; chimney outside near end of house, 1¾ miles, 266° 38′; near peak of modern house, 1¼ miles, 273° 23′; chimney of house, 1¾ miles, 310° 15′; near peak of house, 2 miles, 337° 25′; chimney of house, 3⅛ miles, 345° 30′; near peak of Jamaica Point Wharf house, 1½ miles, 352° 58′.

House (Dorchester County, C. C. Yates, 1909).—On the eastern shore of Choptank River, about ¼ mile south of entrance to Cabin Creek, 1 mile north of entrance to Warwick River, and on the south side of a small cove, on marsh, about 1 foot above high water, 14 yards south of shore, 26 yards southeast of shore, 35 yards southwest by west of shore and mouth of small creek in marsh, and 175 yards north of woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Two pine trees, 12° 11′; left peak of shanty, 1⅛ miles, 133° 11′; chimney outside near end of house, 1⅛ miles, 137° 28′; near peak of house, 1⅛ miles, 143° 51′; tangent of point, ¼ mile, 178° 29′; stack of cannery at Choptank, 4 miles, 195° 31′; near peak of shack, ⅞ mile, 226° 10′.

Blind (Talbot County, C. C. Yates, 1909).—On the northwestern shore of Choptank River, about ½ mile west-northwest of entrance to Cabin Creek, and 2 miles north of Jamaica Point, on a marsh point, between river and line of locust trees, about 1 foot above high water, 11 yards north of shore, 15 yards west of shore, 16 yards northeast of shore at duck blind, and 25 yards east by north of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Surface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right peak of Jamaica Point Wharf house, 2 miles, 13° 08′; chimney on house, 1¼ miles, 44° 28′; nail in blaze in 4-inch locust tree, 10.28 meters (33.7 feet), 83° 08′; nail in blaze in 4-inch locust tree, 7.53 meters (24.70 feet), 108° 36′; nail in blaze in 6-inch locust tree, 5.72 meters (18.77 feet), 151° 50′; nail in blaze in 10-inch locust tree, 14.25 meters (46.8 feet), 203° 49′; chimney

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outside near end of old house, 1 mile, 289° 01′; peak of side gable of modern house, 1¼ miles, 299° 08′.

Hut (Dorchester County, C. C. Yates, 1909).—On the eastern shore of the upper part of Choptank River, on north side of entrance to Cabin Creek, on a marsh point, about 1 foot above high water, 15 yards east of shore, 20 yards northeast of extreme end of point, 90 yards southwest of a hut, and 80 yards south-southwest of trees. Station mark is center of triangle on standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right peak of old barn, ⅜ mile, 24° 21′; chimney of house, 1¾ miles, 72° 05′; chimney outside of house, 1¼ miles, 107° 11′; cupola on barn, 2½ miles, 179° 26′; right corner of hut, 90 yards, 220° 31′; chimney outside near end of old house, ½ mile, 288° 51′; peak of near gable of modern house, ½ mile, 328° 20′.

Up (Talbot County, C. C. Yates, 1909).—On the northwestern shore of the upper part of Choptank River, about ¾ mile north of entrance to Cabin Creek, and 2½ miles north-northeast of Jamaica Point, on a marsh point, about 1 foot above high water, 55 yards northwest of extreme end of point, 25 yards west of shore, and 20 yards north of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 8 inches above surface of marsh. Subsurface mark is center of 2-inch tile, note 17. Distances and azimuths to various points of reference are as follows: Tangent of point, 1 mile, 17° 20′; house, 1⅞ miles, 51° 20′; tangent of point, ⅝ mile, 61° 37′; house, 1½ miles, 212° 35′; tangent of point, 175 yards, 244° 50′; peak of side gable of modern house, 1 mile, 333° 49′; chimney of old house, ⅜ mile, 335° 45′.

Myrtle (Dorchester County, C. C. Yates, 1909).—On the eastern shore of the upper part of Choptank River, about ½ mile north of entrance to Cabin Creek, on a marsh point, about 1 foot above high water, 17 yards east of shore, 20 yards south of extreme end of point, 15 yards southwest of a small gut, and 250 yards west of woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left peak of old barn, ⅞ mile, 14° 28′; tangent of point, ⅞ mile, 40° 01′; chimney of house, 2 miles, 60° 48′; chimney outside east end of house, 1¼ miles, 86° 29′; near peak of shanty, ¾ mile, 165° 05′; stack of cannery at Choptank, 2¾ miles, 188° 38′; left peak of house, 2¼ miles, 202° 06′; tangent of point, ¼ mile, 211° 43′; right peak of roof showing over woods, ¾ mile, 322° 24′; large lone pine tree, 300 yards, 340° 58′.

Lecompte (Dorchester County, C. C. Yates, 1909).—On the southern shore of Choptank River, on southwestern side of Lecomptes Bay, about 1½ miles west-southwest of Horn Point, ⅝ mile northwest of Travers Wharf, and ¼ mile southwest of mouth of Lecomptes Creek, on marsh, about 1 foot above high water, 18 yards west of point of shore, 14 yards south-southeast of shore, 5 yards east-southeast of turn in shore at beach, 7 yards northeast of a pool, 10 yards northwest of cut in shore, and 115 yards southeast of near one of two large cedar trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left one of two large cedar trees, 117 yards, 124° 12′; spindle on barn cupola, ½ mile, 156° 48′; chimney outside of house, ⅝ mile, 179° 44′; red beacon, 3⅛ miles, 234° 07′; barn cupola, 245° 10′; north peak of wharf house, ½ mile, 305° 02′; north peak of house, ⅜ mile, 342° 43′.

Cambridge standpipe (Dorchester County, F. F. Weld, 1900; 1910).—On the southwestern side of Choptank River, in town of Cambridge on north side of High Street near Pine Street. Station is center of cylindrical water standpipe with ornamental railing on top.

East Cambridge spire (Dorchester County, F. F. Weld, 1900; 1909).—On the southern shore of Choptank River, in town of Cambridge. Church has been torn down.

Large water tank (Castlehaven) (Dorchester County, C. C. Yates, 1909).—On the southwestern shore of Choptank River, at Castlehaven, about 2⅛ miles south of Choptank River Light. Station is center point of windmill on water tank on high steel tower near barns.

Black beacon (Talbot County, C. C. Yates, 1909).—On the northeastern shore of Choptank River, off the entrance of La Trappe Creek, about 1⅝ miles

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northeast of Horn Point. Station is center of lantern of structure on a cylindrical foundation, known as La Trappe Creek Outer Light.

Dick's water tank (Dorchester County, C. C. Yates, 1909).—On the southern shore of Choptank River, near Hambrooks Bar, about ⅝ mile southwest of Hambrooks Bar Beacon and ½ mile west of extreme end of Hambrooks Bar. Station is spindle on top of water tank.

Hambrooks Bar Beacon (Dorchester County, C. C. Yates, 1909).—On the southern side of Choptank River, about ¼ mile offshore from the point of land known as Hambrooks Bar, and about 1½ miles northwest of the town of Cambridge. Station is center of lantern on structure on cylindrical foundation, known as Hambrooks Bar Beacon.

Tall stack, East Cambridge (Dorchester County, C. C. Yates, 1909).—On the southern shore of Choptank River, in the town of Cambridge, on the east side of Cambridge Creek. Station is center of tall square smokestack at plant of Cambridge Manufacturing Co.

HARRIS CREEK

Change (Talbot County, F. F. Weld, 1900; 1902).—On Change Point, at east side of mouth of Harris Creek. Station was awash in 1902, and *Change (1910)* established (consult index).

Lomax (Talbot County, F. F. Weld, 1900; 1902).—On west side of Harris Creek, on bluff point at east side of entrance to Lomax Creek, in a cultivated field, 6 paces from edge of bluff, 31.9 meters (105 feet) southwest of pine tree and 18.3 meters (60 feet) west-southwest of dead pine tree. Both trees are down the bank, and both are blazed with triangles. Station marked by nail in cedar stub 6 inches below surface of ground.

Turkey (Talbot County, F. F. Weld, 1900; 1902).—On eastern side of Harris Creek, 6 meters back from bluff on Turkey Neck Point, in a cultivated field, and about 100 meters north of end of wooded point. It is 53.5 meters (176 feet) north of a blazed cedar tree. Marked by a cedar stub projecting about 2 inches above surface of ground.

Eagle (Talbot County, F. F. Weld, 1900; 1909).—On the western shore of Harris Creek, on Bald Eagle Point, about ¾ mile west of Turkey Neck Point and 2 miles north-northeast of Tilghman Island Wharf, on marshland, about 1 foot above high water, 2 yards west of shore, 45 yards north by west of point of marsh, 150 yards south by east of point of marsh, and 120 yards east of woods. Station marked by nail in 4-inch cedar stub projecting 2 inches above surface of ground. Reference mark center of standard cement monument of Maryland Shell Fish Survey, note 16, with top 6 inches above surface of ground. It is 15.41 meters (50.6 feet) from station in azimuth 88° 35′. Distances and azimuths from the station to other points of reference are as follows: Stack of cannery, 1⅞ miles, 34° 16′; near peak of house, ⅝ mile, 163° 33′; near peak of house on Indian Point, 1⅝ miles, 201° 26′; square chimney of house with ell, 1⅜ miles, 226° 45′; center of chimney of house among trees, 1¼ miles, 266° 59′; large chimney of house, 1⅛ miles, 293° 24′; right chimney of house, 1¼ miles, 312° 39′.

Indian (Talbot County, F. F. Weld, 1900; 1902).—On the eastern side of Harris Creek, on Indian Point, in a cultivated field, 4 paces back from edge of bluff, 3 meters from reference stake at edge of bluff, 36.14 meters (118.6 feet) north of cedar tree on shore line marked with triangular blaze. Probably marked with cedar stub.

Dunn (Talbot County, F. F. Weld, 1900; 1902).—On western shore of Harris Creek, on second point above Dunn Cove, 5 meters back from edge of bluff and 3 meters back from reference stake on top of bluff. Probably marked by cedar stake.

Smith (Talbot County, F. F. Weld, 1900; 1909).—On the eastern shore of Harris Creek, on Smith Point, between Briary Cove and Waterhole Cove, and about ¾ mile west-southwest of Little Neck Point. Station is on a marsh point, about 1 foot above high water, and 6 yards west of shore. Station marked by a nail in center of a 3-inch stub projecting 1 foot above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 13.44 meters (44.1 feet) from station in azimuth 117° 21′. Distances and azimuths to other points of reference are as follows: Chimney of small house, 1¼ miles, 15° 32′; north gable of barn, 1 mile, 34° 03′; north chimney of house, ½ mile, 39° 10′; north edge of

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Lamdin's house, ½ mile, 86° 03′; south chimney of house, ⅜ mile, 152° 59′; east chimney of house, ¾ mile, 187° 09′; chimney of house, 2 miles, 218° 58′; west gable of McQuay's oyster house, ⅞ mile, 255° 14′; chimney of McQuay's house, ⅞ mile, 260° 10′; chimney of small house, ¾ mile, 283° 17′; south chimney of Edmonds's house, ¾ mile, 300° 44′; north chimney of house, 1 mile, 320° 47′.

Little (Talbot County, F. F. Weld, 1900; 1902).—On eastern side of Harris Creek, on Little Neck Point, 6 feet back from edge of bluff, 20 paces west by north of south wing of a house, and 11 feet south of tall pine marked with triangular blaze. Station marked by cedar stub with top flush with ground.

Briary (Talbot County, F. F. Weld, 1900; 1909).—On western shore of Harris Creek, on point at northeastern side of entrance to Briary Cove, about ⅜ mile west of Little Neck Point. Station is on marsh point, about 10 yards from extreme end of point, and is marked by a 3-inch cedar stub projecting 8 inches above the surface of the ground.

Avalon (Talbot County, C. C. Yates, 1909).—On the western shore of Harris Creek, on Tilghman Island, about 100 yards north of shore end of Tilghman Island Wharf, on a marsh and clay point, about 1 foot above high water, 9 yards south of shore, 12 yards northwest of shore, 20 yards north-northwest of northeast corner of a house, about 1 yard east of produced line of end of house, 10 yards north of 2 pine trees, and 6 yards north-northwest of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Stack of cannery, ¼ mile, 4° 36′; nail in blaze in 14-inch pine tree, 10.21 meters (33.5 feet), 8° 29′; northeast corner of house, 17.24 meters (56.6 feet), 15° 41′; nail in blaze in northwest side of 15-inch pine tree, 9.81 meters (32.18 feet), 35° 43′; nail in blaze in 12-inch cherry tree, 10.66 meters (35.0 feet), 78° 41′; lightning rod on east peak of house, 150 yards, 98° 16′; weather vane on schoolhouse, ¼ mile, 125° 28′; near peak of house with chimney, 300 yards, 176° 47′; near peak of house with two chimneys, 3¼ miles, 217° 16′; stack of cannery on wharf, ¼ mile, 223° 03′; near peak of house with two chimneys, 2⅛ miles, 250° 09′; chimney next to skylight on highest house on Tilghman Island Wharf, ¼ mile, 295° 07′.

Narrows (Talbot County, C. C. Yates, 1909).—On the western shore of Harris Creek, about ¼ mile northeast of east entrance to Knapps Narrows and 1¼ miles west of Change Point, in a cultivated field back of a fringe of trees, about 6 feet above high water, 45 yards west-northwest of shore, 15 yards west-northwest of edge of field, 90 yards south-southwest of corner of field, and 145 yards northeast of a point of bank where wire fence meets trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near corner peak of house on Tilghman Island Wharf, ¾ mile, 18° 29′; left stack of cannery, 1 mile, 30° 21′; near peak of hotel with chimney almost in range, ⅞ mile, 41° 23′; near peak of house with one chimney, ⅜ mile, 142° 08′; left peak of house, ¼ mile, 183° 32′; near peak of Morris's house with two chimneys, 2⅜ miles, 218° 11′; nail in blaze in 6-inch wild cherry tree, 22.07 meters (72.4 feet), 241° 04′; near peak of Wayman's house, 1½ miles, 273° 38′; nail in blaze in 7-inch mulberry tree, 12.90 meters (42.3 feet), 298° 29′; nail in blaze in 12-inch pine tree, 17.83 meters (58.5 feet), 327° 45′.

Hen (Talbot County, C. C. Yates, 1909).—On the eastern shore of Harris Creek, on Turkey Neck Point, about ¾ mile north of Change Point, in a cultivated field, about 8 feet above high water, 9 yards southeast of edge of bank, 17 yards east by north of point of bank at line of trees, and 16 yards east-northeast of edge of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in cedar tree, 15.57 meters (51.1 feet), 20° 30′; nail in blaze in cedar tree, 15.29 meters (50.2 feet), 47° 25′; stack of cannery, 2¼ miles, 57° 54′; Lomax windmill, 1½ miles, 81° 38′; left peak of house with two chimneys, 1 mile, 123° 38′; left chimney of brick house, 1⅞ miles, 151° 49′; tower of house, 3 miles, 160° 47′; near chimney of house, 1⅛ miles, 187° 37′; near peak of house, ⅜ mile, 239° 19′; right peak of house, ⅜ mile, 302° 21′; nail in blaze in locust tree, 22.85 meters (75.0 feet), 344° 13′.

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Ball (Talbot County, C. C. Yates, 1909).—On the eastern shore of Harris Creek, about ¾ mile south-southeast of Indian Point and 1 mile north of Turkey Neck Point, in a cultivated field, about 10 feet above high water, 15 yards east of shore, 8 yards from top of bank, and 50 yards north of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right tangent of Turkey Point, 1⅛ miles, 8° 03′; stack of cannery at Tilghman Island, 3⅛ miles, 38° 41′; north chimney of house, 1⅛ miles, 59° 06′; south chimney of brick house, 1¼ miles, 117° 47′; chimney of house, 1¾ miles, 137° 14′; stack of cannery at Sherwood, 1¾ miles, 139° 21′; cupola on house, 2½ miles, 147° 00′; north gable of barn, 400 yards, 214° 05′; northwest corner of Ball's house, 49 yards, 340° 17′; north gable of house, ⅜ mile, 356° 24′.

Dunk (Talbot County, C. C. Yates, 1909).—On the western shore of Harris Creek, about 3 miles from Choptank River, on Seths Point, at northeast side of entrance to Dunn Cove, on marsh, about 1 foot above high water, 6 yards northwest of shore, 23 yards north-northeast of point, 26 yards northeast of shore of Dunn Cove, 12 yards west of shore of Harris Creek, 100 yards east of bushes extending north and south, and 250 yards east of woods. Station mark is center of 2-inch tile pipe projecting 4 inches above surface of marsh; subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of triangle on standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. It is 11.22 meters (36.8 feet) from station in azimuth 101° 06′. Other distances and azimuths are as follows: Chimney at left of house among trees, 1½ miles, 21° 38′; brick house, ½ mile, 155° 18′; left peak of old house, ⅜ mile, 169° 16′; near peak of house with square chimneys, 1⅝ miles, 179° 02′; near peak of roof of house with three chimneys, 2 miles, 195° 34′; weather vane on right end of house with two chimneys, 1¾ miles, 218° 47′; near peak of large barn, 1 mile, 234° 26′; cupola on Neavitt School, 1⅜ miles, 306° 44′; weather vane on middle of house with two chimneys, 1¾ miles, 328° 12′; chimney on left end of house among trees, 2 miles, 333° 05′.

Warrior (Talbot County, C. C. Yates, 1909).—On the western shore of Harris Creek, about 2½ miles north of Change Point, on Indian Point, in cultivated field, about 7 feet above high water, 20 yards southeast of shore, 14 yards southeast of top of bank with uniform slope to shore, and 40 yards northeast of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of house, ¾ mile, 83° 18′; cupola on house, 1¾ miles, 146° 27′; south chimney of house, 2 miles, 157° 11′; west gable of tin-roof barn, 2¼ miles, 172° 56′; chimney on McQuay's oyster house, 1⅛ miles, 203° 53′; south gable of barn, ½ mile, 223° 35′; east chimney of house, 1 mile, 227° 26′; north chimney of house, ⅜ mile, 265° 12′; south chimney of house, ½ mile, 308° 37′; chimney of house, 1 mile, 328° 17′; north gable of barn, 2 miles, 340° 50′.

Hawk (Talbot County, C. C. Yates, 1909).—On the western shore of Harris Creek, about ½ mile north of Seths Point and ½ mile west of Indian Point, in a cultivated field, about 4 feet above high water, and 22 yards northwest of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 8-inch mulberry tree, 13.53 meters (44.4 feet), 18° 12′; north chimney of Harrison's house, 400 yards, 44° 16′; dead pine tree with hawk's nest in top, ¼ mile, 138° 23′; cupola on house, 1¼ miles, 165° 47′; south chimney of house, 1⅛ miles, 179° 58′; chimney of McQuay's oyster house, 1⅜ miles, 224° 35′; south gable of barn, 1¼ miles, 249° 24′; north chimney of house, 1 mile, 273° 10′; nail in blaze in 10-inch hackberry tree, 8.62 meters (28.28 feet), 301° 46′; chimney of house, 1½ miles, 309° 47′; north gable of barn, 2¼ miles, 327° 52′.

Edmond (Talbot County, C. C. Yates, 1909).—On the eastern shore of Harris Creek, about ⅝ mile south-southwest of Little Neck Point and ⅝ mile north-northeast of Indian Point, in southwest corner of yard of a house, about 15 feet above high water, 7 yards southeast of top of bank 15 feet high, and

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nearly on line with south side of house. Station mark is center of 2-inch tile pipe projecting 4 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 16.56 meters (54.3 feet), from station in azimuth 300° 32′. Other distances and azimuths are as follows: North chimney of house, 1¼ miles, 58° 39′; chimney of house, 1¼ miles, 86° 51′; stack of cannery at Sherwood, 1¼ miles, 102° 40′; cupola on house, 1⅝ miles, 123° 11′; east gable of tin-roof barn, 1¼ miles, 157° 51′; east gable of McQuay's oyster house, ⅝ mile, 199° 15′; southwest corner of Edmonds's house, 35 yards, 285° 18′; north chimney of house, ¾ mile, 351° 17′.

Vine (Talbot County, C. C. Yates, 1909).—On the western shore of Harris Creek, about ¼ mile north-northwest of Little Neck Point, in a cultivated field, about 7 feet above high water, 6 yards northwest of shore, and 3 yards northwest of top of vertical bank. Station mark is center of 2-inch tile pipe projecting 4 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 15.86 meters (52.0 feet), from the station, in azimuth 112° 06′. Other distances and azimuths are as follows: West chimney of Edmonds's house, ¾ mile, 8° 37′; Lomax windmill, 3½ miles, 24° 54′; cupola on barn, 1 mile, 118° 46′; south gable of barn, ¾ mile, 150° 25′; large pine tree, 100 yards, 241° 03′; north chimney of house, 1⅞ miles, 258° 44′; west chimney of house, 1⅜ miles, 269° 22′; chimney of Bridges's kitchen, ¾ mile, 276° 21′; west chimney of house, ½ mile, 309° 23′; north chimney of house, ½ mile, 354° 39′.

Dan (Talbot County, C. C. Yates, 1909).—On the eastern shore of Harris Creek, on Little Neck Point, about ¾ mile east-northeast of Smith Point, on a narrow neck of oyster shells, about 35 yards east of southwest corner of McQuay's oyster house, 60 yards east of extreme end of point, 25 yards west of bank at edge of woods, and 3 yards south of shell path to oyster house. Station mark is center of 2-inch tile pipe projecting 5 inches above surface of ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 21.37 meters (70.1 feet) from station, in azimuth 290° 32′. Other distances and azimuths are as follows: North chimney of Edmonds's house, ⅝ mile, 19° 23′; north gable of barn, 2 miles, 51° 14′; stack of cannery at Sherwood, 1¼ miles, 75° 34′; cupola on house, 1¼ miles, 95° 49′; chimney of small house, 1¼ miles, 111° 58′; east gable of McQuay's oyster house, 35 yards, 122° 31′; church spire at Wittman, 2½ miles, 177° 40′; chimney of small house, 1½ miles, 206° 35′; chimney of small house, 1½ miles, 240° 43′; nail in blaze in 4-inch persimmon tree, 21.84 meters (71.6 feet), 295° 26′; nail in blaze in 6-inch persimmon tree, 22.99 meters (75.4 feet), 320° 28′.

Fox (Talbot County, C. C. Yates, 1909).—On the southeastern shore of Harris Creek, opposite the entrance to Cummings Creek, about ½ mile northeast of Little Neck Point, on point of marshland between two coves, about 1 foot above high water, and 26 yards south of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, projecting 7 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to points of reference are as follows: North chimney of house, ¾ mile, 41° 31′; east gable of McQuay's oyster house, ½ mile, 67° 10′; smokestack at Sherwood, 2¼ miles, 72° 40′; east gable of barn, 1 mile, 109° 08′; north chimney of house, 1¼ miles, 125° 28′; south chimney of house, 1 mile, 157° 23′; south chimney of house, 1⅜ miles, 181° 10′; north chimney of old house, 1⅜ miles, 212° 36′; chimney of small house, 1¼ miles, 238° 39′; north chimney of house, 1 mile, 250° 26′; north chimney of Bridges's kitchen, ¼ mile, 278° 13′.

Cummings (Talbot County, C. C. Yates, 1909).—On the western shore of Harris Creek, about ½ mile north-northeast of Little Neck Point, on point on western side of entrance to Cummings Creek, in a cultivated field, about 10 feet above high water, 70 yards north of extreme end of point, and 50 yards northwest of lone pine tree near shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: West gable of McQuay's oyster house, ½ mile, 19° 05′; cupola on

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barn, 1¼ miles, 95° 18′; cupola on barn, 1½ miles, 156° 42′; west chimney of house, 1 mile, 167° 03′; west chimney of house, 1¼ miles, 207° 22′; west gable of barn at Bozman, 1¼ miles, 282° 14′; west gable of house, 1¼ miles, 290° 20′; lone pine tree near shore, 50 yards, 305° 21′; south chimney of house, 1½ miles, 352° 41′.

Rabbit (Talbot County, C. C. Yates, 1909).—On the western shore of Harris Creek, about ¾ mile northeast of Little Neck Point, on eastern side of entrance to Cummings Creek, in cultivated field, about 8 feet above high water, 6 yards north of shore, 2 yards north of top of bank, and 50 yards east of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North gable of barn, ½ mile, 14° 21′; north chimney of house, 1 mile, 33° 12′; stack of cannery at Sherwood, 2 miles, 65° 22′; nail in blaze in 6-inch pine tree, 8.73 meters (28.64 feet), 70° 12′; left edge of barn, 1¼ miles, 129° 41′; left gable of old barn, 400 yards, 228° 49′; chimney of small house, 1¼ miles, 262° 35′; flagstaff on Bozman Hall, ⅞ mile, 293° 33′; nail in blaze in 6-inch pine tree, 3.17 meters (10.40 feet), 327° 23′.

Dog (Talbot County, C. C. Yates, 1909).—On the eastern shore of Cummings Creek, about ⅜ mile north of Harris Creek, on marsh, about on level with high water, and 16 yards west of clump of myrtle bushes. Station mark is center of 2-inch tile pipe projecting 3 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 14.43 meters (47.3 feet), from station, in azimuth 294° 29′. Other distances and azimuths are as follows: West chimney of house, 1¼ miles, 15° 07′; east chimney of house, 1¼ miles, 22° 46′; east edge of McQuay's oyster house, ⅞ mile, 32° 17′; chimney of house, 2¼ miles, 38° 49′; east gable of old barn, ¾ mile, 124° 54′; west chimney of house, 1¼ miles, 160° 21′: south chimney of house, ¾ mile, 178° 51′; nail in blaze in 12-inch pine tree, 35.70 meters (117.1 feet), 186° 50′.

Koot (Talbot County, C. C. Yates, 1909).—On the southeastern shore of Harris Creek, on point of land between two coves, about ⅜ mile southeast of entrance to Cummings Creek and ½ mile west of town of Bozman, in a cultivated field, about 6 feet above high water, 10 yards south of shore, 6 yards south of edge of bank 6 feet high, and 200 yards north of a graveyard. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of Bridges's house, 300 yards, 18° 33′; nail in blaze in 6-inch locust tree, 15.29 meters (50.2 feet), 58° 53′; nail in blaze in 6-inch oak tree, 7.86 meters (25.79 feet), 105° 30′; north chimney of house, 1¼ miles, 140° 01′; south gable of old barn, ¼ mile, 157° 55′; south chimney of Miller's house, 1⅛ miles, 222° 09′; chimney of small house, ¾ mile, 232° 57′; west chimney of house, 1 mile, 249° 41′; chimney of small house, 1 mile, 264° 59′; flagstaff on Bozman Hall, ½ mile, 286° 09′; lone cherry tree in Bridges's graveyard, 200 yards, 353° 57′.

Grace (Talbot County, C. C. Yates, 1909).—On the northwestern shore of Harris Creek, about ⅜ mile east of entrance to Cummings Creek and 1 mile northeast of Little Neck Point, on a marsh point, about 1 foot above high water, and 5 yards north of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of Bridges's house, ⅜ mile, 17° 45′; east gable of McQuay's oyster house, 1 mile, 58° 03′; nail in blaze in 12-inch locust tree, 4.64 meters (15.22 feet), 167° 20′; north chimney of Miller's house, 1 mile, 227° 52′; chimney of small house, ¾ mile, 247° 50′; south chimney of house, ½ mile, 258° 24′; north chimney of house, ¾ mile, 265° 27′; east chimney of house, ½ mile, 302° 22′; west chimney of house, ¾ mile, 331° 43′.

Bozman (Talbot County, C. C. Yates, 1909).—On the eastern shore of Harris Creek, about ¼ mile northwest of town of Bozman and ¾ mile east of entrance to Cummings Creek, in a cleared space, about 8 feet above high water, 25 feet southeast of a vertical bank 8 feet high, and 16 yards north of pine

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woods. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, with top projecting 7 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of Bridges's house, 1 mile, 59° 11′; south chimney of house, 1 mile, 146° 01′; south chimney of house, 1⅜ miles, 148° 49′; north chimney of Harrison's house, ½ mile, 164° 58′; cupola on tin-roof barn, 2 miles, 178° 20′; chimney of house, ¼ mile, 217° 10′; south chimney of house, ¼ mile, 247° 56′; nail in blaze in 4-inch locust tree, 24.93 meters (81.8 feet), 297° 20′; nail in blaze in 12-inch pine tree 22.47 meters (73.72 feet), 310° 19′.

Mink (Talbot County, C. C. Yates, 1909).—On the western shore of Harris Creek, about ½ mile northeast of entrance to Cummings Creek, and ½ mile northwest of town of Bozman, on a marsh point, about 1 foot above high water, 2 yards northwest of shore, and 40 yards northeast of wire and board fence. Station mark is center of 2-inch tile pipe projecting 3 inches above surface of ground; subsurface mark is center of 2-inch tile pipe buried with top 2 inches below base of surface pipe. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground; it is 8.73 meters (28.64 feet) from the station, in azimuth 126° 07′. Distances and azimuths to various points of reference are as follows: Chimney of small house, ¾ mile, 19° 25′; north chimney of Bridges's house, 1 mile, 27° 36′; nail in blaze in 5-inch locust tree, 12.21 meters (40.1 feet), 77° 54′; nail in blaze in 12-inch mulberry tree, 9.41 meters (30.87 feet), 135° 56′; south chimney of Harrison's house, 2 miles, 207° 00′; south chimney of Miller's house, ⅞ mile, 229° 32′; north chimney of house, ½ mile, 242° 01′; chimney of house, ½ mile, 283° 32′; flagpole on Bozman Hall, ½ mile, 332° 39′; east chimney of house, ¾ mile, 352° 04′.

Pink (Talbot County, C. C. Yates, 1909).—On the eastern shore of the upper part of Harris Creek, about ⅝ mile north of the town of Bozman, on a marsh point, about 1 foot above high water, 6 yards southwest of shore, 12 yards southeast of extreme end of point, and 200 yards southwest of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 7 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of Bridges's house, 1 mile, 42° 07′; east gable of barn, ¾ mile, 121° 59′; south chimney of house, 1 mile, 131° 16′; cupola on tin-roof barn, 1¾ miles, 170° 33′; south gable of house, 2½ miles, 186° 48′; south chimney of Harrison house, 1¼ miles, 193° 20′; north chimney of Miller's house, ⅜ mile, 212° 41′; nail in blaze in 18-inch twin oak tree, 9.63 meters (31.59 feet), 265° 39′.

Harrison (Talbot County, C. C. Yates, 1909).—On the western shore of the upper part of Harris Creek, about ¾ mile north-northwest of the town of Bozman, in the edge of marsh, in northeast corner of old apple orchard, about 2 feet above high water, 11 yards northwest of shore, 23 yards west of extreme end of point, and 80 yards south-southeast of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 8-inch apple tree, 9.24 meters (30.3 feet), 26° 20′; center of old gristmill burr partly embedded in ground and about 4 feet in diameter, 4.87 meters (15.98 feet), 123° 05′; northeast corner of Harrison house, 80 yards, 154° 24′; north chimney of Miller's house, ½ mile, 242° 47′; south chimney of house, ¾ mile, 263° 48′; north chimney of house, ⅜ mile, 271° 03′; chimney of house, ⅜ mile, 320° 30′; chimney of small house, ⅞ mile, 333° 28′; north gable of barn, ¾ mile, 349° 52′.

Clump (Talbot County, C. C. Yates, 1909).—On the western shore of the upper part of Harris Creek, about ¾ mile north of town of Bozman, on marsh point, about 2 feet above high water, 6 yards west of shore, and 15 yards east of fringe of locust trees and vines. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: South chimney of Harrison's lower house, ¼ mile, 40° 52′; nail in blaze in 6-inch hackberry tree, 17.75 meters (58.2 feet) 100° 03′; south chimney of Harrison's house, 1¼ miles, 207° 47′; south gable of Harrison's barn, 1¼ miles, 210° 44′; south chimney of small house, ¼ mile, 276°

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12′; south chimney of house, 1⅛ miles, 287° 45′; north chimney of house, ⅜ mile, 329° 12′; north chimney of house, ½ mile, 351° 10′.

Miller (Talbot County, C. C. Yates, 1909).—On the eastern shore of the upper part of Harris Creek, about 1 mile north of the town of Bozman, in a cultivated field, about 15 feet above high water, 65 yards east of shore, and halfway between a barn and a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: West chimney of house, 1 mile, 4° 48′; east gable of barn, 1¼ miles, 81° 17′; left corner of Seth's bathhouse, ⅜ mile, 123° 41′; south chimney of house, 1½ miles, 137° 45′; southwest corner of Miller's barn, 25.28 meters (82.9 feet), 182° 28′; west gable of barn, ¾ mile, 276° 48′; south chimney of Harrison's house, ¼ mile, 301° 42′; northwest corner of Miller's house, 29.23 meters (95.9 feet), 358° 43′.

Otto (Talbot County, C. C. Yates, 1909).—On the eastern shore of the upper part of Harris Creek, about ½ mile south of the junction of Northeast Branch and Northwest Branch, in a cultivated field, about 8 feet above high water, 18 yards east of top of vertical bank 6 feet high washed by high water, and 100 yards north of old fence covered with vines. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 4-inch locust tree, 28.03 meters (92.0 feet), 6° 21′; north chimney of Bridges's house, 2½ miles, 31° 30′; east chimney of Harrison's house, 1 mile, 44° 56′; nail in blaze in one of twin locust trees (15 inches diameter), 12.67 meters (41.6 feet), 58° 43′; left tangent of Seth's bathhouse, ¼ mile, 80° 46′; south gable of Warner barn, 1 mile, 133° 34′; east chimney of house, 1¾ miles, 146° 55′; cupola of tin-roofed barn, 1 mile, 154° 19′; south chimney of Marion Harrison's house, ¾ mile, 192° 03′; north chimney of house, ¾ mile, 252° 40′; north gable of barn, ¼ mile, 345° 57′.

Lawn (Talbot County, C. C. Yates, 1909).—On the western shore of the upper part of Harris Creek, about ½ mile south of the junction of Northeast Branch and Northwest Branch, in the northeast corner of a lawn, about 5 feet above high water, 10 feet southwest of top of vertical bank washed by high water, and 16 yards northwest of bathhouse and wharf. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to points of reference are as follows: Nail in blaze in 18-inch walnut tree, 2.55 meters (8.37 feet), 2° 22′; nail in blaze in 24-inch cherry tree, 5.96 meters (19.55 feet), 67° 27′; nail in locust stump, 0.84 meter (2.76 feet), 187° 06′; cupola on barn, 2½ miles, 202° 37′; south chimney of Harrison's house, ⅝ mile, 217° 30′; north chimney of house, ¾ mile, 258° 42′; north chimney of house, 1¼ miles, 302° 29′; north chimney of Miller's house, ⅜ mile, 306° 23′.

Rod (Talbot County, C. C. Yates, 1909).—On the eastern shore of the upper part of Harris Creek, on the southeastern side of entrance to Northeast Branch, in a cultivated field, about 10 feet above high water, 5 yards southeast of shore, and 2 yards southeast of top of bank with uniform slope to shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of house, 1¼ miles, 6° 11′; east chimney of house at Bozman, 2¼ miles, 14° 41′; east gable of small barn, ¾ mile, 92° 52′; north chimney of Warner house, ¾ mile, 109° 22′; cupola on tin-roofed barn, ¾ mile, 140° 32′; right tangent of barn, 1½ miles, 187° 06′; south chimney of Harrison house, 250 yards, 218° 46′; west gable of barn, ¾ mile, 301° 17′; lone 12-inch persimmon tree, 250 yards, 355° 41′.

End (Talbot County, C. C. Yates, 1909).—On the western shore of Harris Creek, on the southwestern side of entrance to Northwest Branch, in a cultivated field, about 5 feet above high water, and 4 yards west of shore. Station mark is center of 2-inch tile pipe projecting 5 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 14.76 meters (48.4 feet) from station in azimuth 83° 57′. Other distances and azimuths are as follows: South gable of barn, 200 yards, 129° 00′; south chimney of Kirby's house, 200 yards, 138° 57′; south

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chimney of house, ½ mile, 179° 29′; west gable of tin-roofed barn, ⅜ mile, 182° 09′; south chimney of Harrison's house, ¾ mile, 265° 29′; west gable of barn, ⅞ mile, 291° 49′; north chimney of Miller house, 1¼ miles, 325° 46′.

Southern M. E. Church, Tilghman Island (Talbot County, C. C. Yates, 1909).—On the eastern shore of Chesapeake Bay, on Tilghman Island, about 1¾ miles north of Blackwalnut Point and 2 miles south of Knapps Narrows, about ¼ mile inshore from Chesapeake Bay, on west side of main road. Station is center of bell cupola on building known as St. Johns Chapel (Southern M. E. Church).

M. E. Church, Tilghman (Talbot County, C. C. Yates, 1909).—On the eastern shore of Chesapeake Bay, on Tilghman Island, about halfway between the shores of the bay and Harris Creek, about 2¾ miles north of Blackwalnut Point and ¾ mile south of Knapps Narrows, on main road, and about ¼ mile east of Tilghman Island Wharf. Station is center of small white cupola on building known as Tilghman M. E. Church.

Schoolhouse cupola, Tilghman Island (Talbot County, C. C. Yates, 1909).—On the eastern shore of Chesapeake Bay, on Tilghman Island, about midway between the shores of the bay and Harris Creek, about 3 miles north of Blackwalnut Point, ½ mile south of Knapps Narrows, on the main road, and about ⅜ mile northwest of Tilghman Island Wharf. Station is center of bell cupola on schoolhouse.

People's Chapel, Tilghman (Talbot County, C. C. Yates, 1909).—On the eastern shore of Chesapeake Bay, on Tilghman Island, about 3¼ miles north of Blackwalnut Point and ¼ mile south of Knapps Narrows, in the town of Tilghman, about ½ mile north of Tilghman Island Wharf. Station is center of small square cupola on building known as People's Chapel.

Bozman, M. E. Church spire (Talbot County, C. C. Yates, 1909).—On the southeastern shore of Harris Creek, in the town of Bozman, on the northwest side of county road leading to Neavitt. Station is center of spire on building known as Bozman M. E. Church.

BROAD CREEK

Bridge (Talbot County, F. F. Weld, 1900).—On eastern shore of Broad Creek, on first point south of mouth of Bridge Creek, 27 paces north of old water fence, 3 paces outside of worm fence, 31.8 feet south of nail in first large cedar tree in row. Station marked by nail in cedar stub projecting 1 foot above ground.

Lead (Talbot County, F. F. Weld, 1900).—On the west side of Broad Creek, directly opposite Deep Neck Point, on marsh point southeast of large barn belonging to Mr. Dan Bridges. Station marked by nail in cedar stub projecting 6 inches above ground.

Deep (Talbot County, F. F. Weld, 1900).—On eastern side of Broad Creek, on Deep Neck Point, on grassy flat outside of bluff and wood line, and about 150 meters south of end of point, being the first grass plot south of end of point. Station marked by nail in cedar stub projecting 6 inches above surface of ground. Stake blazed with triangle.

Mulberry (Talbot County, F. F. Weld, 1900).—On west side of Broad Creek, on Mulberry Point. The station is marked by a nail in a cedar stub projecting about 2 inches above ground. The center of a 2-inch tile pipe, which marks station *Bald*, is 22.46 meters (73.7 feet) from the station in azimuth 52° 58′.

Ham (Talbot County, F. F. Weld, 1900; 1902).—Near the southwest point of Hambleton Island, 4 feet back from edge of bluff, in a cultivated field, in line with a row of old apple trees and 98.2 feet from the end tree. Station marked by a cedar stub.

Peary (Talbot County, C. C. Yates, 1909).—On the eastern shore of Broad Creek, about 1 mile north of its entrance, 1⅜ miles north of Royston Island, and 1¾ miles east-northeast of Nelson Point, on wooded shore, about 6 feet above high water, 3 yards east of vertical bank which is washed by high water, and 100 yards south of north end of pine woods. Station mark is center of 2-inch tile pipe projecting 3 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 20.93 meters (68.7 feet) from station, in azimuth 223° 30′. Other distances and azimuths are as follows: Right tangent of Nelson Point, 1¾ miles, 78° 34′; east chimney of house, 2 miles, 99° 28′; east gable of Parlett

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house, 2¾ miles, 114° 17′; south gable of barn, 1⅞ miles, 151° 24′; nail in blaze in 15-inch pine tree, 17.49 meters (57.4 feet), 215° 51′; nail in blaze in 15-inch pine tree, 15.45 meters (50.7 feet), 290° 00′.

Annette (Talbot County, C. C. Yates, 1909).—On the western shore of Broad Creek, about ¾ mile north of Nelson Point, on south side of entrance to Balls Creek, on marshland, about 1 foot above high water and 4 yards west of shore. Station mark is center of 2-inch tile pipe projecting 4 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 9.39 meters (30.8 feet) from station in azimuth 103° 59′. Other distances and azimuths are as follows: Nail in blaze in 10-inch cedar tree, 11.37 meters (37.3 feet), 22° 55′; nail in blaze in 10-inch cedar tree, 16.81 meters (55.2 feet), 70° 35′; south chimney of house, 3⅝ miles, 214° 08′; south chimney of house, 3¾ miles, 225° 22′; south gable of barn, 3½ miles, 230° 30′; chimney of house, 3½ miles, 232° 04′; south gable of barn, 2 miles, 268° 23′; west chimney of house, 3⅜ miles, 297° 48′.

Cook (Talbot County, C. C. Yates, 1909).—On the eastern shore of Broad Creek, about 1¾ miles north of Choptank River, and ½ mile south of entrance to Bridge Creek, on point of marsh, about 1 foot above high water, and 2 yards east of shore. Station mark is center of 2-inch tile pipe projecting 4 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe buried with top 2 inches below base of surface pipe. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground; it is 11.63 meters (38.2 feet) from station in azimuth 241° 29′. Other distances and azimuths are as follows: Left tangent of Nelson Island, 2 miles, 52° 24′; north gable of barn, 2¼ miles, 117° 15′; south gable of Bridges's barn, 1½ miles, 145° 53′; south chimney of house, 2⅛ miles, 167° 10′; south chimney of house, 3½ miles, 178° 53′; east chimney of house, 1¼ miles, 196° 02′; nail in blaze in 6-inch cedar tree, 13.79 meters (45.2 feet), 238° 08′; nail in blaze in 8-inch persimmon tree, 9.79 meters (32.12 feet), 257° 43′.

Myrtle (Talbot County, C. C. Yates, 1909).—On the western shore of Broad Creek, about 1¼ miles north of Nelson Point, and ¼ mile north of Balls Creek, on marsh point, about 1 foot above high water and 4 yards northwest of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: East gable of house, ⅝ mile, 34° 02′; nail in blaze in 4-inch pine tree, 11.51 meters (37.8 feet), 115° 18′; nail in blaze in 4-inch locust tree, 5.09 meters (16.70 feet), 185° 26′; south chimney of house, 3¼ miles, 230° 33′; chimney of house, 2 miles, 256° 55′; west gable of barn, 2⅛ miles, 271° 09′; north chimney of house, 2½ miles, 284° 14′; largest tree on Royston Island, 2⅞ miles, 316° 10′.

Coal (Talbot County, C. C. Yates, 1909).—On the western shore of Broad Creek, about 2 miles north of Nelson Point and 1 mile west of Deep Neck Point, in a cultivated field, about 4 feet above high water, 12 yards northwest of shore, 4 yards north of small lone cedar tree, and 200 yards north of pine woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. *Distances and azimuths to various points of reference are as follows:* Left tangent of Nelson Island, 2⅜ miles, 16° 04′; south gable of Bridges's barn, ¼ mile, 180° 45′; south chimney of Bridges's house, ¼ mile, 196° 26′; north chimney of house, 1½ miles, 211° 41′; south chimney of house, 2¼ miles, 214° 54′; chimney of small house, 2⅜ miles, 248° 11′; chimney of small house, 2⅜ miles, 254° 15′; chimney of small house, 1½ miles, 317° 10′; largest tree *on Royston Island, 3 miles, 332° 45′.*

Ross (Talbot County, C. C. Yates, 1909).—On the eastern shore of Broad Creek, on Deep Neck Point, about 1 mile south-southeast of Mulberry Point and ½ mile west-southwest of Cedar Point, on wooded shore, about 10 feet above high water, and 6 yards southeast of vertical bank, which is washing rapidly. Station mark is center of 2-inch tile pipe projecting 4 inches above *surface of ground; subsurface mark* is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 14.94 meters (49.0 feet) from station in azimuth 298° 17′. Other distances and azimuths are as follows: Left tangent of Nelson Point, 2⅝ miles, 41° 41′; south gable of Bridges's barn, 1 mile, 97° 20′;

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south gable of house, 1½ miles, 111° 35′; south chimney of house, 1¾ miles, 128° 32′; south chimney of house, 1 mile, 148° 35′; cupola on barn, 2½ miles, 173° 39′; east chimney of house, 1⅞ miles, 205° 47′; nail in blaze in 18-inch pine tree, 16.32 meters (53.5 feet), 267° 25′; nail in blaze in 15-inch pine tree, 11.81 meters (38.8 feet), 326° 16′.

Skinner (Talbot County, C. C. Yates, 1909).—On the western shore of Broad Creek, at eastern side of entrance to Grace Creek, about ⅝ mile west of Mulberry Point, on marsh point, about 1 foot above high water, 3 yards northeast of shore, 42 yards east of extreme end of point, and 40 yards southwest of small clump of trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: West chimney of Bridge's house, ¾ mile, 00° 14′; north gable of Bridge's barn, ¾ mile, 6° 00′; east chimney of house, ⅝ mile, 63° 01′; north chimney of house, ½ mile, 118° 23′; south chimney of house, ¾ mile, 166° 34′; chimney of cabin, ½ mile, 183° 04′; south gable of barn, ¼ mile, 226° 54′; west chimney of house, 2 miles, 272° 35′; south chimney of house, 2¼ miles, 320° 16′; north gable of house, 2¼ miles, 335° 38′.

Bald (Talbot County, C. C. Yates, 1909).—On the western shore of Broad Creek, on Mulberry Point, at northern side of entrance to Leadenham Creek, on marsh point, about 1 foot above high water, 2 yards north of shore, 50 yards west of extreme east end of point, and 40 yards southeast of a rail fence. Station mark is center of 2-inch tile pipe projecting 7 inches above surface of ground. Subsurface mark is center of 2-inch tile, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 16.84 meters (55.2 feet) from station in azimuth 175° 34′. Triangulation station *Mulberry* of 1900 (see index), marked by a nail in a 2-inch cedar stub projecting 2 inches above surface of ground, is 22.46 meters (73.7 feet) from station in azimuth 232° 58′. Other distances and azimuths are as follows: North gable of Bridges's barn, 1 mile, 41° 55′; east gable of house, 1¼ miles, 76° 28′; east chimney of house, ¼ mile, 104° 14′; south chimney of Willey's house, 1⅛ miles, 215° 52′; cupola on Beverley's house, 1¼ miles, 223° 37′; right tangent of north end of Willey Island, ¾ mile, 272° 47′.

Willey (Talbot County, C. C. Yates, 1909).—On the eastern shore of Broad Creek, on southern end of Hambleton Island, about ⅝ mile north of Cedar Point, in a cultivated field, about 15 feet above high water, and 50 yards north of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left tangent of Nelson Island, 3⅞ miles, 32° 18′; east chimney of house, 1⅞ miles, 80° 50′; north chimney of house, 1 mile, 127° 30′; chimney of house, 2 miles, 145° 10′; south chimney of house, 1⅛ miles, 163° 20′; chimney of Beverly's tenant house, ⅞ mile, 205° 22′; cupola on outhouse, ¾ mile, 277° 09′; chimney of house, 1½ miles, 282° 25′; west chimney of house, 1½ miles, 296° 20′; north gable of barn, 2½ miles, 318° 07′.

Cedar (Talbot County, F. F. Weld, 1900; 1909).—On the southeastern shore of Broad Creek, on Cedar Point, about ⅝ mile south of south end of Hambleton Island, and ½ mile east-northeast of Deep Neck Point, on a hard oyster-shell bank, about 3 feet above high water, 3 yards south of shore, in front of a thicket of cedar and oak trees. Station mark is nail in center of 2-inch stub projecting 2 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 11.16 meters (36.6 feet) from station in azimuth 332° 04′. Other distances and azimuths are as follows: Nail in blaze in 12-inch elm tree, 4.13 meters (13.55 feet), 28° 46′; north chimney of house, 1⅜ miles, 86° 35′; east gable of house, 1½ miles, 100° 19′; east chimney of house, 1¼ miles, 123° 47′; east chimney of house, 1⅞ miles, 146° 14′; south chimney of house, 2 miles, 167° 27′; west chimney of house, 1⅛ miles, 202° 05′; cupola on house, 1 mile, 227° 46′; east chimney of house, 1¼ miles, 229° 39′; north chimney of house, 1½ miles, 255° 05′; nail in blaze in 12-inch twin oak tree, 6.14 meters (20.14 feet), 343° 56′.

Spencer (Talbot County, F. F. Weld, 1900; 1909).—On the northern shore of Edge Creek, at western side of entrance to Solitude Creek, and about 1 mile east of Broad Creek, on a marsh point, about 1 foot above high water, 4 yards northeast of shore, and 21 yards northwest of extreme end of point, with long bar of oyster shells extending 65 yards into creek. Station mark is nail in 3-inch

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cedar stub projecting 4 inches above surface of marsh. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. It is 11.22 meters (36.8 feet) from station in azimuth 188° 43′. Other distances and azimuths are as follows: Chimney of small house, 1½ miles, 19° 57′; east chimney of house, 2¼ miles, 83° 27′; east gable of house, 2¾ miles, 93° 35′; south chimney of house, 2 miles, 122° 07′; south gable of barn, ¼ mile, 172° 39′; chimney of house, ⅜ mile, 232° 56′; west chimney of house ⅜ mile, 247° 29′; south chimney of house, 1½ miles, 317° 23′; west chimney of house, 1¼ miles, 338° 25′.

Hopkins (Talbot County, C. C. Yates, 1909).—On the northern shore of Edge Creek, on eastern side of entrance to Back Creek (San Domingo Creek) and about ¾ mile north-northeast of Cedar Point, in a cultivated field, about 8 feet above high water, 15 yards north of shore, and 20 yards from three small cedar trees near shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right tangent of pine woods on Deep Neck Point, 1¼ miles, 41° 15′; left edge of barn roof, 2 miles, 64° 10′; chimney of house, 1½ miles, 94° 01′; south chimney of house, 1¼ miles, 151° 53′; west chimney of Beverly's house, ⅞ mile, 161° 59′; west chimney of house, ⅜ mile, 190° 51′; chimney of house, 1 mile, 292° 42′; south chimney of house, ⅜ mile, 300° 06′; north gable of barn, 2½ miles, 342° 08′.

Rose (Talbot County, C. C. Yates, 1909).—On the western shore of the upper part of Broad Creek, on a very prominent point, about ⅜ mile north-northeast of Mulberry Point and ⅝ mile west-northwest of the south end of Hambleton Island, on a marsh point, about 2 feet above high water, 4 yards west of end of point, and 20 yards east of point of pine woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: West gable of Bridges's barn, 1⅜ miles, 39° 35′; south chimney of house, ⅜ mile, 47° 00′; north chimney of house, ⅝ mile, 73° 37′; cupola on barn, 1¼ miles, 173° 52′; south chimney of house, 1¼ miles, 179° 03′; south chimney of Willis's house, ¾ mile, 217° 24′; cupola on Beverly's house, 1 mile, 227° 34′; west chimney of Beverly's tenant house, 1½ miles, 241° 30′; west gable of house, 1⅜ miles, 285° 39′; north chimney of house, 2½ miles, 311° 03′; right tangent of woods on Deep Neck Point, 1⅛ miles, 354° 03′.

Ray (Talbot County, C. C. Yates, 1909).—On the eastern shore of Broad Creek, on the western side of Hambleton Island, about ½ mile north of the south end of the island, and ⅞ mile northeast of Mulberry Point, on marsh, about 1 foot above high water, 4 yards east of shore, and 13 yards west of fringe of small trees at top of bank near edge of cultivated field. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of marsh. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of references are as follows: Right tangent to woods at Deep Neck Point, 1⅝ miles, 16° 12′; west gable of Bridges's barn, 2 miles, 48° 19′; east chimney of house, 1 mile, 66° 15′; north chimney of house, ¾ mile, 102° 18′; north chimney of house, 1¾ miles, 119° 10′; south chimney of house, 1¼ miles, 152° 43′; nail in blaze in 6-inch cedar tree, 11.08 meters (36.4 feet), 238° 44′; nail in blaze in 7-inch wild-cherry tree, 20.52 meters (67.3 feet), 296° 03′.

Gram (Talbot County, C. C. Yates, 1909).—On the western shore of the upper part of Broad Creek, about ¾ mile north of Mulberry Point and about ½ mile west of the upper end of Hambleton Island, on a marsh point, about 2 feet above high water, 10 yards west of extreme end of point, and about ¼ mile northeast of house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of house, ¼ mile, 59° 51′; south gable of Miller's barn, 2 miles, 142° 17′; south chimney of Harrison's house, 1⅞ miles, 145° 43′; cupola on barn, ¾ mile, 173° 35′; south chimney of house, ¾ mile, 182° 15′; north chimney of house, ⅝ mile, 201° 20′; north chimney of Price's house, ¾ mile, 230° 25′; south chimney of Willey's house, ½ mile, 251° 57′; cupola on

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Beverly's house, ¾ mile, 255° 34′; west chimney of house, 1⅛ miles, 285° 00′; right tangent of woods on Deep Neck Point, 1⅝ miles, 354° 11′.

Grave (Talbot County, C. C. Yates, 1909).—On the eastern shore of the upper part of Broad Creek, about ⅛ mile west of north end of Hambleton Island, on point of mainland between Broad Creek and Back Creek, on marsh point, about 2 feet above high water, 11 yards northeast of shore, and about ¼ mile southwest of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right tangent of woods on Deep Neck Point, 1¾ miles, 4° 45′; north chimney of house, ⅝ mile, 56° 56′; south gable of barn, 1¼ miles, 97° 00′; north chimney of Jump's house, 1⅜ miles, 106° 01′; south chimney of house, ⅜ mile, 146° 00′; south chimney of Price's house, ¼ mile, 223° 28′; cupola on Beverly's house, ¾ mile, 273° 38′; north chimney of Willey's house, ¼ mile, 282° 54′.

Royal (Talbot County, C. C. Yates, 1909).—On the eastern shore of the upper part of Broad Creek, about ½ mile northwest of the north end of Hambleton Island, on a marsh point, about 1 foot above high water, 5 yards northeast of shore, and 45 yards south of a lone leaning cedar tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of house, ⅝ mile, 24° 37′; north chimney of Sutton's house, 1 mile, 89° 18′; west chimney of Jump's house, 1 mile, 99° 02′; north chimney of house, 1¼ miles, 112° 41′; nail in blaze in 36-inch red-oak tree, 76.08 meters (249.6 feet), 203° 15′; west chimney of house, ¼ mile, 224° 43′; south chimney of Beverly's house, 1 mile, 288° 56′; right tangent of woods on Deep Neck Point, 2 miles, 358° 37′.

Bengal (Talbot County, C. C. Yates, 1909).—On the western shore of the upper part of Broad Creek, about ¾ mile west of the north end of Hambleton Island, on a narrow marsh point, about 1 foot above high water, 4 yards south of shore, 55 yards west of extreme end of point and north of a fringe of pine and cedar trees along bank. Station mark is center of 2-inch tile pipe projecting 3 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 8.81 meters (28.90 feet) from station in azimuth 52° 34′. Other distances and azimuths are as follows: Nail in blaze in 18-inch pine tree, 11.68 meters (38.3 feet), 44° 42′; nail in blaze in 10-inch cedar stump 1 foot high, 9.43 meters (30.94 feet), 57° 09′; east chimney of Jump's house, ½ mile, 117° 08′; belfry on Harrison's outhouse, 1½ miles, 150° 03′; south chimney of Harper's house, ¾ mile, 165° 02′; cupola on barn, ½ mile, 200° 02′; south chimney of house, ¾ mile, 214° 26′; north chimney of house, ⅝ mile, 241° 23′; north chimney of house, 1½ miles, 291° 23′.

Mars (Talbot County, C. C. Yates, 1909).—On the eastern shore of the upper part of Broad Creek, about 1 mile northwest of the north end of Hambleton Island, on marsh, about 2 feet above high water, and 7 yards east of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North gable of corncrib, ½ mile, 36° 35′; west chimney of Sutton's house, ½ mile, 66° 43′; right corner of Eastman's bungalow, ⅝ mile, 77° 53′; south chimney of house, ¾ mile, 114° 07′; chimney of Harrison's tenant house, 1 mile, 141° 16′; south chimney of house, ⅜ mile, 162° 48′; north chimney of house, ½ mile, 264° 18′; north chimney of house, 1 mile, 294° 34′.

Eastman (Talbot County, C. C. Yates, 1909).—On the western shore of the upper part of Broad Creek, about 1¼ miles west-northwest of north end of Hambleton Island, on a marsh point, about 2 feet above high water, 12 yards south of extreme end of point, 3 yards northeast of clump of myrtle bushes, and 200 yards east of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of Sutton's house, 200 yards, 93° 28′; east chimney of Jump's house, ½ mile, 123° 38′; belfry on Harrison's outhouse, 1 mile, 160° 21′; south gable of barn, 2 miles, 168° 51′; south chimney of

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Willis's house, 1¼ miles, 174° 45′; chimney of Burke's house, ¾ mile, 179° 14′; north chimney of Harper's house, ½ mile, 194° 44′; north chimney of house, 1 mile, 238° 58′; north chimney of house, 1⅛ miles, 280° 24′.

Woodill (Talbot County, C. C. Yates, 1909).—On the western shore of the upper part of Broad Creek, about ¾ mile east of Bozman, and 1½ miles northwest of Hambleton Island, on wooded shore, about 6 feet above high water, 8 yards southwest of shore, and 5 yards north of a pile of oyster shells. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 12-inch pine tree, 23.70 meters (77.8 feet), 27° 13′; nail in blaze in 12-inch pine tree, 16.21 meters (53.2 feet), 89° 28′; belfry on Harrison's outhouse, ⅞ mile, 161° 51′; south chimney of house, 2 miles, 174° 51′; south chimney of Willis's house, ¾ mile, 181° 48′; chimney of Burke's house, ½ mile, 195° 04′; north chimney of Harper's house, ⅜ mile, 228° 56′; cupola of barn, ¾ mile, 250° 45′; north chimney of house, 1 mile, 272° 57′; south chimney of house, 2⅛ miles, 291° 35′.

Venus (Talbot County, C. C. Yates, 1909).—On the eastern shore of the upper part of Broad Creek, about ½ mile north of entrance to Edgar Cove, on a wooded point, about 6 feet above high water, and 3 yards northeast of edge of a vertical bank 6 feet high. Station mark is center of 2-inch tile pipe projecting 4 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 13.28 meters (43.6 feet) from station in azimuth 280° 32′. Other distances and azimuths are as follows: West gable of Sutton's barn, ¾ mile, 25° 30′; south chimney of house, ½ mile, 72° 55′; south chimney of Miller's house, 1 mile, 135° 09′; belfry on Harrison's outhouse, ¾ mile, 141° 53′; south gable of barn, 1¼ miles, 152° 17′; chimney of Burke's house, ⅛ mile, 173° 30′; nail in blaze in twin oak tree, 14.17 meters (46.5 feet), 232° 25′; nail in blaze in 5-inch oak tree, 3.48 meters (11.42 feet), 291° 56′.

Delta (Talbot County, C. C. Yates, 1909).—On the western shore of the upper part of Broad Creek, about ¾ mile northeast of Bozman, and 1¾ miles northwest of Hambleton Island, on marsh, about 1 foot above high water, 10 yards west of shore, and about 100 yards east of an orchard. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 7 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of Jump's house, ¼ mile, 43° 03′; south gable of barn, 1 mile, 175° 08′; north chimney of Harper's house, ½ mile, 285° 55′; cupola on Beverly's house, 2⅛ miles, 296° 55′; north chimney of house, 2¼ miles, 303° 28′.

Neptune (Talbot County, C. C. Yates, 1909).—On the eastern shore of the upper part of Broad Creek, about 2 miles north of Mulberry Point, and 2 miles west of St. Michaels, in a cultivated garden, about 7 feet above high water, 10 yards north of shore, 20 yards east of extreme end of point, 2 yards north of top of bank with uniform slope to shore, and 40 yards west of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of house, ½ mile, 55° 39′; nail in blaze in 5-inch locust tree, 8.67 meters (28.44 feet), 84° 53′; chimney of Harrison's tenant house, ⅜ mile, 123° 59′; belfry on Harrison's outhouse, ⅝ mile, 136° 52; south gable of house, 1¼ miles, 154° 21′; west chimney of Willis's house, ⅜ mile, 169° 55′; north chimney of house, 2 miles, 205° 42′; chimney of Burke's house, 40 yards, 270° 36′.

Marion (Talbot County, C. C. Yates, 1909).—On the western shore of the upper part of Broad Creek, about 2 miles northwest of Hambleton Island, on the east side of a tenant house, in a cultivated field about 8 feet above high water, 12 yards south of shore, and 12 yards northwest of an open well. Station mark is center of hole drilled in east face of center one of three posts supporting east front of a tenant house.

Willis (Talbot County, C. C. Yates, 1909).—On the eastern shore of the upper part of Broad Creek, on a point at northern side of entrance to a small creek about 1½ miles west of St. Michaels. Station is on a marsh point, at west

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edge of yard of a house, about 1 foot above high water, 8 yards east of shore, 5 yards west of top of slope, about 4 feet higher than the station, and 65 yards southwest of southwest corner of a house. Station mark is center of 2-inch tile pipe projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of house, ½ mile, 22° 16′; north gable of house, ½ mile, 25° 43′; chimney on Harrison's tenant house, ¼ mile, 55° 20′; south chimney of Harrison's house, ¼ mile, 98° 01′; south chimney of Miller's house, ⅝ mile, 109° 26′; south chimney of Harrison's house, 1¼ miles, 149° 32′; nail in blaze in 15-inch cedar tree, 16.59 meters (54.4 feet), 159° 00′; south chimney of house, ½ mile, 166° 43′; southwest corner of Willis's house, 63 yards, 231° 08′; nail in blaze in 5-inch cedar tree, 11.81 meters (38.7 feet), 287° 21′; chimney of house, ⅜ mile, 341° 00′.

Tobe (Talbot County, C. C. Yates, 1909).—On the western shore of Broad Creek, on point at southern side of entrance to Leadenham Creek, in edge of cultivated field, about 2 feet above high water, 19 yards south of shore, and back of a fringe of myrtle bushes. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: East chimney of house, ½ mile, 110° 57′; south chimney of old deserted house, ¾ mile, 196° 23′; cupola on Beverly's house, 2½ miles, 228° 57′; north chimney of house, 3 miles, 274° 13′; north edge of house, 1¼ miles, 298° 14′; south chimney of Bridges's house, ¼ mile, 335° 29′; north gable of Bridges's barn, ⅜ mile, 343° 47′.

Pine (Talbot County, C. C. Yates, 1909).—On the northern shore of Leadenham Creek, on point between entrances to Leadenham Creek and Grace Creek, on wooded shore, about 5 feet above high water, 5 yards west of shore, 60 yards north of extreme end of point, and at intersection of two lanes cut through the woods. Station mark is center of 2-inch tile pipe projecting 3 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 9.52 meters (31.23 feet) from station in azimuth 102° 35′. Other distances and azimuths are as follows: East chimney of house, ¾ mile, 26° 13′; west chimney of house, ⅝ mile, 257° 11′; north chimney of house 2⅜ miles, 269° 50′; south gable of house, 2⅛ miles, 324° 20′; south chimney of Bridges's house, ¾ mile, 334° 24′; north gable of Bridges's barn, ¾ mile, 340° 34′.

Wire (Talbot County, C. C. Yates, 1909).—On the southern shore of Leadenham Creek, about 1 mile southwest of Mulberry Point, and ¼ mile west of Broad Creek, in a cultivated field about 5 feet above high water, 4 yards southeast of shore at top of vertical bank 5 feet high, and 125 yards west of board fence and row of cedar trees. Station mark is center of 2-inch tile pipe projecting 4 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. It is 18.90 meters (62.0 feet) from station in azimuth 336° 24′. Other distances and azimuths are as follows: North gable of barn, ½ mile, 45° 07′; chimney of house, ¾ mile, 122° 45′; north chimney of Fairbank's house, ⅜ mile, 133° 35′; south chimney of house, 1 mile, 140° 30′; south chimney of house, 1 mile, 205° 16′; chimney of small cabin, ⅞ mile, 227° 48′; south chimney of Bridges's house, ⅜ mile, 299° 57′.

Fairbanks (Talbot County, C. C. Yates, 1909).—On the northern shore of Leadenham Creek, about ½ mile west of where it enters Broad Creek, and on first point southwest of entrance to Grace Creek, on a marsh point about 75 yards south of a house and 13 yards north of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: West chimney of house, ½ mile, 8° 27′; south gable of corncrib, 100 yards, 127° 04′; east chimney of house, 75 yards, 170° 34′; south gable of barn, 300 yards, 187° 19′; south corner of small house, 3 miles, 263° 48′; west gable of Bridges's barn, ¾ mile, 310° 22′.

Blanco (Talbot County, C. C. Yates, 1909).—On the southern shore of Leadenham Creek, about ⅝ mile west of where it enters Broad Creek and ¾ mile southwest of entrance to Grace Creek, in a cultivated field, about 9 feet

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above high water, and 13 yards south of edge of vertical bank at shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: South chimney of house, ½ mile, 159° 49′; east chimney of house, ¾ mile, 173° 05′; chimney of house, ¾ mile, 179° 17′; west chimney of house, ⅜ mile, 207° 24′; west chimney of house, 1¼ miles, 238° 58′; north gable of barn, ¼ mile, 347° 47′.

Caulk (Talbot County, C. C. Yates, 1909).—On the northern shore of Leadenham Creek, about ¾ mile west of where it enters Broad Creek and ¼ mile east-southeast of entrance to Caulk Cove, on marsh, on wooded shore, about 1 foot above high water, and 3 yards north of shore. Station mark is center of triangle on standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: West chimney of house, 1⅜ miles, 29° 58′; east chimney of house, ⅝ mile, 77° 20′; nail in blaze in 5-inch pine tree, 9.74 meters (31.96 feet), 120° 45′; nail in blaze in 6-inch pine tree, 24.77 meters (81.3 feet), 244° 13′; west chimney of house, ⅜ mile, 260° 31′; north gable of Bridges's barn, 1 mile, 292° 56′.

Ned (Talbot County, C. C. Yates, 1909).—On the southern shore of Leadenham Creek, about 1⅛ miles west of where it enters Broad Creek and opposite the entrance to Caulk Cove, on marsh point, about 1 foot above high water, 5 yards east of shore, 19 yards south of the extreme end of marsh point, and north of heavy pine woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 12-inch pine tree, 7.52 meters (24.67 feet), 51° 47′; east chimney of house, ⅜ mile 100° 31′; chimney of small house, ½ mile, 135° 58′; east chimney of house, ¾ mile, 160° 08′; west chimney of house, ⅝ mile, 249° 11′; nail in blaze in 12-inch pine tree, 10.47 meters (34.4 feet), 356° 54′.

Luna (Talbot County, C. C. Yates, 1909).—On the western shore of Grace Creek, on a prominent point about ½ mile northwest of where Grace Creek enters Broad Creek. Station is about 5 feet above high water, 5 yards north of shore, 11 yards west of extreme end of point, and 3 yards east of a dense growth of pine trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 5-inch pine tree, 3.29 meters (10.79 feet), 89° 39′; nail in blaze in 5-inch pine tree, 2.61 meters (8.56 feet), 156° 51′; west chimney of house, ¼ mile, 188° 48′; north chimney of house, ¾ mile, 279° 58′; south gable of barn, ⅜ mile, 298° 21′; north gable of Bridge's barn, 1 mile, 353° 01′.

Cabin (Talbot County, C. C. Yates, 1909).—On the eastern shore of Grace Creek, about ½ mile north of where it enters Broad Creek. Station is on the west gable of a deserted cabin, about 10 feet above high water, and 17 yards east of shore. Marked by a 20d. nail driven 2 feet below the west gable of cabin. A staff was erected over the nail.

Marsh (Talbot County, F. F. Weld, 1900; 1909).—On the southern shore of Edge Creek, at the eastern side of entrance to Elbert Cove, and about 1½ miles east of Broad Creek, on a marsh point about 1 foot above high water, 18 yards west of shore, 27 yards south of extreme north end of point, and 35 yards north of an old fence line with a row of cedars. Station mark is nail in 3-inch cedar stub projecting 5 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 13.58 meters (44.6 feet) from station in azimuth 14° 47′. Other distances and azimuths are as follows: South chimney of house, 1 mile, 81° 34′; east gable of barn, 2¾ miles, 120° 43′; south chimney of house, 2½ miles, 146° 48′; east chimney of house, ¾ mile, 182° 58′; chimney of house, 1 mile, 258° 18′; west gable of barn, 1⅛ miles, 266° 07′; south chimney of house, 1½ miles, 283° 55′.

Marshall (Talbot County, C. C. Yates, 1909).—On the northern shore of Edge Creek, opposite Elberts Cove, about 1¼ miles east of Cedar Point, the point on the south of where Edge Creek enters Broad Creek. Station is in cultivated field, about 6 feet above high water, 16 yards northeast of shore, 3 yards northeast of an old row of fence posts, 13 yards northwest of wire

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fence and line of cedar trees, and 125 yards west of an old deserted house. *Station mark is center of standard cement monument of Maryland Shell Fish* Survey, note 16, with top projecting 7 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. *Distances and azimuths to* various points of reference are as follows: West chimney of house, ¾ mile, 7° 35′; north gable of house, 1 mile, 49° 33′; east chimney of house, 2¼ miles, 107° 10′; *chimney of house, 1½ miles, 149° 20′; east* chimney of house, ⅜ mile, 162° 39′; 18-inch lone dead tree, 125 yards, 193° 23′; west chimney of old deserted house, 125 yards, 274° 52′; *nail in blaze in 5-inch cedar tree,* 12.55 meters (41.2 feet), 201° 18′; west chimney of house, 1⅛ miles, 327° 31′.

Holly (Talbot County, C. C. Yates, 1909).—On the southern shore of Edge Creek, *about 2 miles east of* Broad Creek and nearly opposite entrance to Spencer Creek, on a marsh point about on level with high water, 13 yards north of fringe of cedar trees and 100 yards *west of a cove. Station mark is center of* 2-*inch tile pipe* projecting 4 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement *monument of Maryland* Shell Fish Survey, note 16; it is 11.68 meters (38.3 feet) from station in azimuth 14° 24′. Other distances and azimuths are as follows: *Nail in blaze in 8-inch holly tree,* 12.88 *meters* (42.3 feet), 13° 52′; nail in blaze in 6-inch tree, 14.35 meters (47.1 feet), 50° 44′; east chimney of house, ⅛ mile, 60° 33′; east gable of barn, 2¾ miles, 120° 16′; south chimney *of house, 1¼ miles,* 145° 38′; chimney of small house, ¾ mile, 161° 53′; chimney of deserted house, ½ mile, 171° 40′; chimney of large house, ¾ mile, 242° 02′; *south chimney of house, 1¼ miles,* 279° 31′.

Clark (Talbot County, C. C. Yates, 1909).—On the northern shore of Edge Creek, on western side of entrance to Spencer Creek, about 1⅝ *miles east of* Cedar *Point, the point* on the south of where Edge Creek enters Broad Creek. Station is in a cultivated field behind a fringe of locust and cedar trees, about 6 feet above high water, 17 *yards north of shore,* and 35 yards northwest of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface *mark is center of* 2-*inch* tile, *note* 17. *Distances and* azimuths to various points of reference are as follows: East chimney of house, ¾ mile, 38° 51′; nail in blaze in 7-inch locust tree, 7.58 meters (24.87 feet), 98° 23′; *east* chimney of deserted house, ¼ mile, 123° 46′; south chimney of house, ½ mile, 168° 35′; west gable of Hammond Wharf house, ⅜ mile, 206° 52′; north chimney of *house, ¾ mile,* 242° 35′; *south gable of house,* ⅝ mile, 282° 04′; north chimney of house, 1 mile, 303° 00′; west chimney of house, ¾ mile, 321° 17′; west chimney of house, ¾ *mile,* 341° 04′; *nail in blaze in 6-inch cedar tree,* 3.67 meters (12.04 feet), 349° 16′.

Judge (Talbot County, C. C. Yates, 1909).—On the western shore of Back Creek (San Domingo Creek) on a prominent *point on eastern* side of Hambleton *Island,* about ½ mile north of Edge Creek, on a marsh point, about 2 feet above high water, 7 yards west of extreme end of point, *and 8 yards east* of cut *inshore. Station mark* is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is *center of 2-inch tile pipe,* note 17. Distances and azimuths to various points of reference are as follows: Lone cedar tree, 95 yards, 65° 56′; south chimney of Willey house, ½ mile, 150° 54′; *north* chimney of *house, ¾ mile, 157° 09′;* west chimney of Beverly house, ½ mile, 179° 24′; east chimney of Beverly tenant house, ⅜ mile, 219° 42′; chimney of house, ½ mile, 252° 47′; east chimney of *house, ⅝ mile,* 279° 57′; north chimney of house, ¾ mile, 314° 41′; right edge of small house, 3 miles, 343° 05′.

Taft (Talbot County, C. C. Yates, 1909).—On *the eastern shore* of Back Creek *(San Domingo* Creek), about 2 miles south of St. Michaels, ½ mile north of Edge Creek, and nearly opposite the extreme eastern point of Hambleton Island, in a cultivated field, *about 7 feet above* high water, 12 yards east of shore, 15 yards north of edge of bank, 6 feet above marsh, and 5 yards east of edge of bank. Station mark is center of standard *cement monument* of *Maryland Shell Fish Survey, note 16,* with top projecting 6 inches above surface of marsh. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various *points of reference* are as follows: Nail in blaze in 10-inch cedar tree, 13.43 meters (44.1 feet), 25° 26′; south chimney of Willey house, ⅝ mile, 135° 19′; north chimney *of house,* ⅞ mile, 144° 14′; north chimney of Beverly house, ½ mile, 155° 54′; east chimney of Beverly tenant house, ⅜ mile, 181° 23′; chimney of house, ¼ mile, 230° 16′; west

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chimney of Hopkins house, 300 yards, 274° 21′; nail in blaze in 15-inch cedar tree, 21.59 meters (70.8 feet), 347° 21′.

Harper (Talbot County, C. C. Yates, 1909).—On the eastern shore of Back Creek (San Domingo Creek), on a prominent point opposite the north end of Hambleton Island, and about 1½ miles south of St. Michaels, in the northwest corner of yard of a house, about 4 feet above high water, 13 yards south of edge of stone sea wall, and 55 yards northwest of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of Willey house, ¼ mile, 78° 49′; east chimney of house, 2½ miles, 112° 35′; south chimney of house, ¼ mile, 125° 20′; south gable of barn, 1¼ miles, 177° 35′; nail in 24-inch pecan tree, 20.29 meters (66.6 feet), 234° 38′; northwest corner of Beverly kitchen, 54 yards, 312° 42′; nail in leaning locust tree, 18.72 meters (61.4 feet), 345° 29′.

Thelma (Talbot County, C. C. Yates, 1909).—On the western shore of Back Creek (San Domingo Creek), on the northern part of Hambleton Island, about 1 mile north of Edge Creek, in front yard of a house, about 6 feet above high water, 3 yards west of shore, 20 yards southeast of house, and nearly in line with south side of house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of house, 1¼ miles, 69° 15′; nail in 12-inch cherry tree, 14.47 meters (47.5 feet), 79° 10′; northeast corner of Willey house, 17.78 meters (58.3 feet), 139° 48′; north chimney of house, ¼ mile, 167° 19′; chimney on oyster house, 1⅛ miles, 220° 29′; cupola on Beverly house, ¼ mile, 262° 51′; west chimney of house, ¾ mile, 309° 06′.

Elmore (Talbot County, C. C. Yates, 1909).—On the western shore of Back Creek (San Domingo Creek), about ¼ mile north of north end of Hambleton Island, and 1¼ miles south of St. Michaels, near edge of cultivated field, about 6 feet above high water, 5 yards south of edge of vertical bank at shore, and 20 yards west of extreme end of point of marsh. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 5-inch locust tree, 5.39 meters (17.68 feet), 5° 30′; south chimney of Willey house, ⅜ mile, 25° 08′; north chimney of house, ¼ mile, 61°; chimney of house, 1 mile, 221° 19′; chimney of oyster house, ¾ mile, 230° 18′; chimney of house, ½ mile, 237° 39′; nail in blaze in 12-inch cedar tree, 5.40 meters (17.72 feet), 328° 09′; cupola on Beverly house, ¼ mile, 346° 30′.

Ansley (Talbot County, C. C. Yates, 1909).—On the eastern shore of Back Creek (San Domingo Creek), about 1 mile south of St. Michaels, ½ mile northeast of north end of Hambleton Island, and ⅛ mile south of entrance to a small creek, on a marsh point, about 1 foot above high water, 3 yards south of shore, and in center of triangle formed by three pine stubs driven into marsh to support theodolite. Station mark is center of 2-inch tile pipe projecting 4 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 21.25 meters (69.7 feet) from station in azimuth 251° 13′. Other distances and azimuths are as follows: Cupola on Beverly house, ¼ mile, 19° 44′; north chimney of Willey house, ½ mile, 46° 02′; north chimney of house, ⅜ mile, 93° 29′; south gable of barn, ⅝ mile, 164° 05′; nail in blaze in 12-inch pine tree, 18.74 meters (61.5 feet), 235° 44′; nail in blaze in 18-inch pine tree, 12.72 meters (41.7 feet), 266° 22′.

Beverly (Talbot County, C. C. Yates, 1909).—On the eastern shore of Back Creek (San Domingo Creek), about ¾ mile south of St. Michaels, and ⅝ mile north of north end of Hambleton Island, on a sandy marsh point, about 1 foot above high water, 8 yards northeast of shore and south of a heavy growth of small pine trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: North chimney of Beverly house, ½ mile, 6° 44′; north chimney of Willey house, ⅝ mile, 27° 34′; north gable of barn, ⅝ mile, 42° 19′; east gable of house, 1 mile, 100° 53′; chimney of small deserted house, ¾ mile, 105° 48′; nail in root of cedar stump, 1.56 meters (5.12 feet), 145° 41′; nail in blaze in

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10-inch cedar tree, 5.65 meters (18.54 feet), 234° 12′; chimney of house, ¼ mile, 268° 22′; north chimney of house, ⅜ mile, 284° 03′; northeast peak of small outhouse, ½ mile, 303° 53′.

Samuel (Talbot County, C. C. Yates, 1909).—On the eastern side of Back Creek (San Domingo Creek), on northern side of a small creek, about 1 mile south of St. Michaels, and ¾ mile northeast of north end of Hambleton Island, on a point near edge of cultivated field, about 6 feet above high water, 15 yards north of shell-covered shore, and 30 yards northwest of extreme end of marsh point, and near a number of small cedar and locust trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: West chimney of Beverly kitchen ⅝ mile, 20° 58′; north chimney of Willey house, ¾ mile, 36° 22′; north chimney of house, ½ mile, 52° 07′; nail in blaze in 5-inch locust tree, 6.47 meters (21.23 feet), 119° 58′; nail in blaze in 12-inch cedar tree, 13.64 meters (44.8 feet), 208° 32′; chimney of small house, ⅜ mile, 235° 32′; chimney of oyster house, 250 yards, 272° 22′; north chimney of house, ¼ mile, 296° 10′; chimney of old deserted house, ¾ mile, 337° 31′.

BROAD CREEK TRIBUTARIES

Irish (Talbot County, C. C. Yates, 1910).—On the northeastern shore of Choptank River, on the west side of the entrance to Irish Creek, about ⅜ mile northeast of Royston Island, on cultivated land, about 5 feet above high water, 13 yards east-northeast of edge of bank, 5 yards north of foot of bank, 4 yards north of a cedar tree, 10 yards west of a small cedar tree at west end of line of locust trees, and 23 yards east-southeast of rounded point of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 2-inch cedar tree, 6.24 meters (20.47 feet), 39° 39′; near peak of house, 3¾ miles, 124° 17′; near peak of barn, 300 yards, 181° 59′; near peak of building, 1¼ miles, 218° 54′; nail in blaze in 2-inch locust tree, 16.33 meters (53.6 feet), 261° 58′; left peak of house, ⅝ mile, 291° 20′; left peak of barn, 1 mile, 316° 18′; nail in blaze in 7-inch cedar tree, 4.29 meters (14.07 feet), 345° 57′.

Creek (Talbot County, C. C. Yates, 1910).—On the northeastern shore of Choptank River, on east side of entrance to Irish Creek, about ⅝ mile east-northeast of Royston Island, on a marsh point about 1 foot above high water, 11 yards southeast of shore, 11 yards east of shore, 17 yards north-northeast of shore and 14 yards south of cut in shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right corner of house, ⅝ mile, 136° 19′; right corner of house, 1¼ miles, 163° 46′; left peak of house, 1⅛ miles, 201° 43′; left corner of large chimney, ⅝ mile, 247° 36′.

Pont (Talbot County, C. C. Yates, 1910).—On the western shore of Irish Creek, on point about ½ mile north of where creek enters Choptank River, in pasture land, about 5 feet above high water, 3 yards west of edge of bank, 30 yards south-southwest of point of bank, 35 yards north by west of point of bank, and ⅛ mile northeast of 2½-story frame house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of 2½-story house, ⅛ mile, 37° 31′; nail in blaze in 5-inch locust tree, 24.71 meters (81.1 feet), 191° 36′; right peak of barn, ⅝ mile, 209° 33′; left peak of house, 1 mile, 246° 09′; near peak of barn, ⅝ mile, 309° 05′.

Ila (Talbot County, C. C. Yates, 1910).—On the eastern shore of Irish Creek, about ½ mile from where creek enters Choptank River, on point at north side of entrance to cove, in cultivated land about 5 feet above high water, 3 yards south-southwest of edge of bank, 20 yards northeast of edge of bank at trees, 17 yards southeast of point of bank, and 23 yards east by north of point of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 3-inch locust tree, 16.07 meters (52.7 feet), 30° 49′; nail in blaze in 4-inch locust tree, 19.32 meters (63.4 feet), 44° 58′; nail in blaze in

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3-inch locust tree, 21.36 meters (70.1 feet), 69° 58′; left corner of barn, ½ mile, 76° 09′; near peak of barn, ¾ mile, 147° 28′; left corner of left chimney of house, ⅝ mile, 172° 10′; left peak of house, ⅝ mile, 208° 28′; left peak of house, ½ mile, 238° 53′; left corner of left chimney of large house, ⅜ mile, 282° 01′; right peak of house, ⅝ mile, 351° 48′.

Vue (Talbot County, C. C. Yates, 1910).—On the northern shore of Irish Creek, about ¾ mile from where creek enters Choptank River, on a marsh point about 1 foot above high water, 4 yards west-northwest of shore, 5 yards northeast of shore, and 8 yards north of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top projecting 6 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right peak of barn, ⅝ mile, 52° 13′; right peak of house, ⅝ mile, 55° 15′; nail in blaze in 4-inch cedar tree, 24.91 meters (81.7 feet), 163° 37′; nail in blaze in 12-inch cedar tree, 45.03 meters (147.7 feet), 188° 59′; left corner of house, 400 yards, 268° 16′; left peak of house, ⅜ mile, 274° 15′; near peak of house, ½ mile, 314° 06′; right corner of house, ⅝ mile, 355° 19′.

Sticky (Talbot County, C. C. Yates, 1910).—On the western shore of Irish Creek, about ¾ mile from where creek enters Choptank River, on a small marsh point about 1 foot above high water, 8 yards east of shore, 8 yards west of shore, 4 yards south of a 3-foot terrace covered with small cedar and pine trees, and 23 yards north-northeast of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of house, ⅜ mile, 2° 41′; nail in blaze in 6-inch pine tree, 8.72 meters (28.61 feet), 141° 09′; nail in blaze in 4-inch pine tree, 9.85 meters (32.32 feet), 154° 32′; nail in blaze in 4-inch pine tree, 8.63 meters (28.31 feet), 179° 04′; near peak of barn, ½ mile, 227° 38′; left peak of large house, 1 mile, 271° 47′; right corner of house, ⅞ mile, 317° 02′.

TRED AVON RIVER

Oxford (Talbot County, F. F. Weld, 1900; 1902).—On eastern side of Tred Avon River, in town of Oxford, on wharf of Oxford Ice Co., 2.9 meters (9.5 feet) north of ice house. Marked by nail in cedar post with top flush with surface.

Avon (Talbot County, F. F. Weld, 1900; 1902).—On northern shore of Tred Avon River, on end of Pecks Point, 53.7 feet and 34.5 feet from two pine trees, each of which is marked with a triangular blaze. Station marked with nail in stub.

Turn (Talbot County, F. F. Weld, 1900; 1902).—On northern shore of Tred Avon River, on extreme end of prominent point opposite mouth of Goldsborough Creek. Marked by nail in locust stub with top flush with surface of ground.

Bach (Talbot County, C. C. Yates, 1910).—On the eastern shore of entrance to Tred Avon River, on Bachelor Point, about 1⅜ miles north-northeast of Choptank River Light, in a cultivated field about 6 feet above high water, 30 yards east of edge of bank, 70 yards north-northeast of edge of bank on range with Choptank River Light, and 100 yards south by west of edge of bank of trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Tangent of Benoni Point, 1¼ miles, 72° 28′; left peak of roof of house, 1⅝ miles, 164° 24′; left corner of burnt house, 1⅛ miles, 183° 04′; right corner of house, ¼ mile, 228° 34′; left corner on left chimney on very large house, ⅝ mile, 257° 45′.

Mutton (Talbot County, C. C. Yates, 1910).—On the western shore of Tred Avon River, opposite the town of Oxford, and about 1¼ miles northeast of Benoni Point, in cultivated land about 5 feet above high water, 13 yards west of edge of tree-fringed bank at edge of strip of marsh, 20 yards southwest of edge of bank, and 25 yards northeast of edge of bank at bend. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right corner of barn, ¼ mile, 64° 10′; near corner of barn, 600 yards, 102° 00′; center of chimney

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outside of house, ¼ mile, 155° 09′; near corner of house, ½ mile, 207° 48′; nail in blaze in 12-inch persimmon tree, 18.44 meters (60.5 feet), 217° 13′; nail in blaze in 8-inch cedar tree, 13.48 meters (44.2 feet), 235° 48′; nail in blaze in 10-inch cedar tree, 11.80 meters (38.7 feet), 272° 21′; nail in blaze in 6-inch locust tree, 17.18 meters (56.4 feet), 347° 34′.

First (Talbot County, C. C. Yates, 1910).—On the eastern shore of Tred Avon River, in town of Oxford, about ⅛ mile north of railroad wharves. Station is about 8 feet above high water, 2 yards east-southeast of edge of bank, 4 yards east by north of point of bank, 4 yards northeast of edge of bank of small gully, 2 yards south of corner fence post, and 35 yards west of house. Station mark is center of standard cement monument of *Maryland Shell Fish* Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Windmill, ¼ mile, 4° 21′; right peak of small house, 1⅝ miles, 69° 37′; right peak of modern house, 1⅝ miles, 84° 48′; left peak of small house, 1⅛ miles, 146° 15′; nail in blaze in fence post, 4.98 meters (16.34 feet), 225° 30′; nail in blaze in 20-inch apple tree, 11.94 meters (39.2 feet), 255° 21′; nail in blaze in 12-inch apple tree, 14.56 meters (47.8 feet), 284° 03′.

River View (Talbot County, C. C. Yates, 1910).—On the eastern shore of Tred Avon River, about ⅛ mile west by south of Oxford (steamboat) Wharf, about 3 feet above high water, 3 yards east of shore, 23 yards south-southwest of a fisherman's shanty, and 50 yards north by west of end of "Lovers Lane." Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left peak of building, ¾ mile, 65° 15′; spindle on barn cupola, ⅞ mile, 153° 38′; left corner of fisherman's shanty, 25.82 meters (84.7 feet), 188° 43′; right corner of fisherman's shanty, 21.61 meters (70.9 feet), 206° 33′; left peak of large house, 1¼ miles, 222° 18′; right corner of steamboat wharf house, ⅛ mile, 245° 27′; stack of ice plant, ⅜ mile, 255° 21′; nail in blaze in 18-inch oak tree, 44.25 meters (145.2 feet), 325° 06′.

Tred (Talbot County, F. F. Weld, 1900; 1910).—On the western shore of Tred Avon River, about ½ mile west of Oxford, about on level with high water, 2 yards west of shore of marsh strip, 6 yards east of foot of bank 6 feet high, 30 yards south by east of small house among trees, 13 yards south by east of end of fence, and 20 yards north of small point of marsh strip. Station mark is nail in center of cypress stub projecting 5 inches above a 4-inch tile pipe with top flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 4.98 meters (16.34 feet) from station in azimuth 111° 37′. Other distances and azimuths are as follows: Near peak of small house, 29 yards, 171° 21′; windmill on wooden tower, 1⅜ miles, 212° 24′; left peak between two chimneys of large house, 1⅝ miles, 237° 46′; left peak of Oxford Wharf house, ⅝ mile, 277° 00′; windmill, 1 mile, 324° 29′.

Bellevue (Talbot County, C. C. Yates, 1910).—On the western shore of Tred Avon River, at Bellevue (steamboat) Landing, about ¾ mile northwest of Oxford (steamboat) Landing. Station is on south side of roadway pier to Bellevue Wharf, about 16 yards south by west of a crab house and 25 yards west of wharf house. Station is center of a 3-inch square staff 12 feet high. Distances and directions to points of reference are as follows: Center one of four nails in plank, 3.42 meters (11.22 feet), north by east; right corner of storehouse, 16.00 meters (52.5 feet), northeast; left corner of wharf house, 24.25 meters (79.56 feet), east by north; right corner of wharf house, 24.18 meters (79.3 feet), east by south; center one of four nails in plank, 0.73 meter (2.40 feet), east by south; center one of four nails in plank, 0.82 meter (2.69 feet), west by north.

Town (Talbot County, C. C. Yates, 1910).—On the southeastern shore of Tred Avon River, about ¼ mile northeast of east side of entrance to Town Creek and ¾ mile northeast of Oxford (steamboat) Wharf. Station is in northwest corner of a cultivated field about 6 feet above high water, 10 yards south of edge of bank, 12 yards east-southeast of point of bank, 25 yards west-southwest of edge of bank, 3 yards northeast of a fence, and 4 yards northeast of a gully. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch

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tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right of steamboat wharf house, ¾ mile, 56° 08′; nail in blaze in 6-inch cedar tree, 5.02 meters (16.47 feet), 67° 51′; weather vane on barn cupola, 1⅛ miles, 100° 39′; near peak of 2½-story house, 1 mile, 149° 02′; left peak of large house, ½ mile, 197° 33′; near peak of house, 2¾ miles, 241° 26′; top of roof of tower, 1⅜ miles, 256° 07′; spindle on left cupola of long barn, 1½ miles, 304° 32′; right peak of large house, ½ mile, 340° 02′.

Tar (Talbot County, C. C. Yates, 1910).—On the western shore of Tred Avon River, on point between Tar Creek and Plaindealing Creek, and about 1⅛ miles north of Oxford (steamboat) Wharf. Station is on a long point about 4 feet above high water, 10 yards east-northeast of Tar Creek, 9 yards north by west of point of bank, 10 yards northwest by west of edge of bank, 6 yards west-southwest of edge of bank, and 60 yards west by north of extreme end of point of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Weather vane on barn cupola, ¾ mile, 50° 27′; left peak of 2½-story frame house, ½ mile, 72° 50′; right corner of frame house, 127 yards, 147° 46′; front peak of frame house, ½ mile, 190° 54′; left peak of cupola, ⅜ mile, 281° 54′; spindle on left cupola of long barn, 1½ miles, 315° 21′; stack of ice plant at Oxford, 1⅛ miles, 358° 06′.

Peck (Talbot County, C. C. Yates, 1910).—On the northeastern shore of Tred Avon River, on Peck Point, about 1 mile northeast of Oxford (steamboat) Wharf, in woods, about 8 feet above high water, 4 yards north of edge of bank, 4 yards northwest of edge of bank, and 8 yards east of edge of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17, buried with top 2 inches below base of monument. Distances and azimuths to various points of reference are as follows: Nail in blaze in 6-inch locust tree, 2.80 meters (9.19 feet), 1° 27′; left corner of large 2½-story house, 1¼ miles, 68° 08′; spindle on barn cupola, 1¼ miles, 78° 03′; nail in blaze in 4-inch cherry tree, 5.65 meters (18.54 feet), 118° 27′; nail in blaze in 3-inch persimmon tree, 3.93 meters (12.89 feet), 231° 50′; spindle on left cupola on long barn, 1¾ miles, 319° 23′; right peak of building with cupola, ⅞ mile, 359° 33′.

Mud (Talbot County, C. C. Yates, 1910).—On the southeastern shore of Tred Avon River, at the western side of the entrance to Mud Creek, among trees on northeast point of a pasture, about 4 feet above high water, 13 yards southwest of shore of pond on point, 20 yards north of end of pond, 25 yards northwest of shore of pond, and 45 yards south-southeast of a lone tree at shore of river. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Spindle on barn cupola, 1⅜ miles, 99° 15′; near peak of 2½-story house, 1⅛ miles, 136° 29′; right corner of 2½-story house, ½ mile, 165° 43′; nail in blaze in 24-inch hackberry tree, 5.51 meters (18.08 feet), 181° 09′; center of roof of tower, 1⅛ miles, 251° 46′; nail in blaze in twin elm tree, 8.98 meters (29.46 feet), 311° 00′; spindle on cupola of long barn, ⅞ mile, 314° 41′; nail in blaze in 7-inch elm tree, 13.44 meters (44.1 feet), 343° 43′.

Tall (Talbot County, C. C. Yates, 1910).—On the northwestern shore of Tred Avon River, on a prominent point about 1⅜ miles northeast of Oxford (steamboat) Wharf, among cedar and wild pear trees, about 2 feet above high water, 7 yards northwest of shore, 40 yards east by north of shore, and 50 yards north-northeast of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 5-inch cedar tree, 4.65 meters (15.26 feet), 8° 13′; right peak of Oxford Wharf house, 1⅜ miles, 56° 33′; nail in blaze in 5-inch cedar tree, 6.90 meters (22.64 feet), 64° 10′; spindle on top of water tank, 1½ miles, 86° 00′; nail in blaze in 8-inch cedar tree, 3.08 meters (10.10 feet), 154° 12′; right peak of house, 1⅝ miles, 243° 00′; top of roof of tower, ⅞ mile, 270° 42′; nail in blaze in 6-inch cedar tree, 2.62 meters (8.60 feet), 284° 27′; spindle on barn cupola, 1¼ miles, 310° 40′; spindle on left cupola of large barn, 1 mile, 340° 29′.

Golds (Talbot County, C. C. Yates, 1910).—On the southeastern shore of Tred Avon River, on point of land between Goldsboro Creek and Mud Creek,

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on hard marsh, about 1 foot above high water, 30 yards south of shore, 60 yards west-southwest of shore, and 60 yards south-southeast of point of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of large house, ½ mile, 00° 23′; church spire, 1⅝ miles, 61° 09′; stack of ice plant at Oxford, 1⅜ miles, 79° 08′; right peak between two chimneys of large house, 1 mile, 129° 45′; near peak of large house, 1⅞ miles, 177° 40′; near peak of large barn, 1⅝ miles, 193° 38′; right corner of old house, ½ mile, 268° 41′; left corner of large house, ½ mile, 313° 37′.

Borough (Talbot County, C. C. Yates, 1910).—On the southeastern shore of Tred Avon River, about ¼ mile north-northeast of entrance to Goldsboro Creek, and ½ mile south-southwest of entrance to Trippe Creek, in cultivated land, about 3 feet above high water, 17 yards east-southeast of shore, 25 yards south of shore, 30 yards southwest of shore, ⅛ mile northwest of house in trees, and ⅛ mile west-southwest of large lone tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Spindle on left cupola on long barn, ⅝ mile, 18° 59′; spindle on barn cupola, 2⅛ miles, 91° 04′; near peak of large house, 1 mile, 108° 14′; left corner of very large house, 1½ miles, 168° 29′; near peak of wharf house at Double Mills, 1⅞ miles, 176° 27′; right corner of large building, 1½ miles, 210° 56′; large lone tree, ⅛ mile, 240° 41′; right corner of house among trees, 300 yards, 321° 24′.

Plain (Talbot County, C. C. Yates, 1910).—On the western shore of Tred Avon River, about ½ mile west of north side of entrance to Trippe Creek, and 1⅜ miles south-southwest of Double Mills Wharf, in cultivated land, about 3 feet above high water, 5 yards southwest of shore, 10 yards west of shore at first water bush, and 150 yards northwest of point of shore. Station mark is nail in center of 2-inch stub in center of 2-inch tile pipe with top of stub projecting 12 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe buried with top 2 inches below base of surface pipe. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. It is 17.90 meters (58.7 feet) from station in azimuth 304° 43′. Other distances and azimuths are as follows: Windmill, 1⅛ miles, 24° 22′; near peak of large house, ⅝ mile, 65° 28′; near peak of house, ⅝ mile, 137° 00′; near peak of very large house, ⅞ mile, 186° 32′; center of cupola on wharf house at Double Mills, 1⅜ miles, 197° 42′; spindle on barn cupola, 1½ miles, 212° 44′; spindle on left cupola of long barn, 1⅝ miles, 353° 27′.

Twin (Talbot County, C. C. Yates, 1910).—On the eastern shore of Tred Avon River, on point of land on north side of entrance to Trippe Creek, in cultivated land, about 4 feet above high water, 45 yards east-southeast of shore of Tred Avon River, and 110 yards northwest of shore of Trippe Creek. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Spindle on left cupola on large barn, 1¼ miles, 11° 06′; right corner of large house, ⅞ mile, 78° 46′; left peak of house, ½ mile, 186° 35′; near peak of house in trees, 1 mile, 235° 11′; near peak of house, 1⅜ miles, 254° 26′; top of roof of tower, ½ mile, 336° 49′.

Weave (Talbot County, C. C. Yates, 1910).—On the eastern shore of Tred Avon River, about ½ mile north of the entrance to Trippe Creek, and 1 mile south of Double Mills Wharf, on marsh land, about 1 foot above high water, 20 yards east of shore, 16 yards south of shore at small inlet, 6 yards west of small point on inlet, and 20 yards northeast of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Spindle on left cupola on long barn, 1½ miles, 7° 42′; stack of ice plant at Oxford, 2 miles, 43° 43′; near peak between two chimneys of large house, 1¼ miles, 54° 13′; left corner of chimney outside left end of house, ⅞ mile, 85° 06′; left corner of large house, ½ mile, 150° 36′; peak of near gable of large house, 1 mile, 173° 54′; weather vane on wharf house at Double Mills, ⅞ mile, 182° 20′; left corner of large house, ⅞ mile, 198° 04′; left peak of house, 300 yards, 230° 36′.

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Spin (Talbot County, C. C. Yates, 1910).—On the western shore of Tred Avon River, on point of land between two small creeks, about ¾ mile northwest of entrance to Trippe Creek, and ⅞ mile south-southwest of Double Mills Wharf. Station is in pasture land near four large trees, about 10 feet above high water, 20 yards north by west of edge of bank, 30 yards west by north of point of bank, and 90 yards northeast of slight cut in bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 17-inch holly tree, 6.90 meters (22.64 feet), 32° 29′; nail in blaze in 30-inch mulberry tree, 7.01 meters (23.00 feet), 65° 55′; windmill, ⅝ mile, 83° 54′; right corner of house, ⅜ mile, 130° 14′; right corner of very long frame house, ⅜ mile, 202° 47′; cupola on Double Mills Wharf house, ⅞ mile, 210° 19′; left corner of large frame house, 1 mile, 224° 38′; nail in blaze in 34-inch pine tree, 9.74 meters (31.96 feet), 235° 59′; near corner of brick house, ½ mile, 257° 27′; nail in blaze in 14-inch cedar tree, 10.45 meters (34.3 feet), 222° 49′.

Martin (Talbot County, C. C. Yates, 1910).—On the western shore of Tred Avon River, about 1 mile north-northwest of entrance to Trippe Creek, and ½ mile southwest of Double Mills Wharf, on a long narrow point, about 2 feet above high water, 8 yards southwest of shore, 11 yards north of piling protecting shore, 30 yards northwest of extreme end of point, and 14 yards east of middle one of three apple trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in apple tree, 21.72 meters (71.3 feet), 69° 09′; nail in blaze in 8-inch apple tree, 16.72 meters (54.9 feet), 78° 45′; left corner large house, 146 yards, 91° 49′; nail in blaze in 6-inch apple tree, 12.89 meters (42.3 feet), 95° 26′; left corner of house, ¼ mile, 157° 42′; left peak of roof of house, ⅜ mile, 192° 20′; spindle on cupola of Double Mills Wharf house, ⅜ mile, 208° 51′; left peak of large 2½-story house, ½ mile, 234° 06′; right corner of brick house, ⅜ mile, 301° 30′.

Hunter (Talbot County, C. C. Yates, 1910).—On the eastern shore of Tred Avon River, at south side of entrance to cove about ½ mile south-southeast of Double Mills Wharf, and 1 mile north of entrance to Trippe Creek, on a marsh point about 1 foot above high water, 3 yards southwest of shore, 5 yards east-northeast of shore, 6 yards southeast of point of marsh, and 10 yards west of a clump of wild cherry, hackberry, and cedar trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of brick house, ¼ mile, 20° 20′; near peak between two chimneys of large house, 1⅝ miles, 46° 14′; near peak of cupola on building, 1¼ miles, 63° 11′; right peak of large house, ½ mile, 96° 42′; peak of dormer window of large house, ½ mile, 144° 09′; weather vane of wharf house at Double Mills, ½ mile, 156° 32′; left corner of large house, ⅜ mile, 185° 15′; nail in blaze in 5-inch wild-cherry tree, 10.70 meters (35.1 feet), 236° 10′; nail in blaze in 6-inch hackberry tree, 11.18 meters (36.7 feet), 259° 49′; nail in blaze in leaning 8-inch cedar tree, 9.02 meters (29.59 feet), 291° 26′; nail in blaze in 20-inch cedar tree, 13.34 meters (43.8 feet), 300° 16′.

Neva (Talbot County, C. C. Yates, 1910).—On the western shore of Tred Avon River, at Double Mills Wharf, about 1⅜ miles north of entrance to Trippe Creek. Station is in southeast corner of a pasture, about 3 feet above high water, 100 yards west-southwest of Double Mills Wharf, 5 yards west-southwest of wire and lath fence at road, 14 yards north of bank 1 foot high at river, and 14 yards northwest of corner post of fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Spindle on left of cupola on long barn, 2⅜ miles, 5° 00′; right corner of house, 250 yards, 99° 38′; nail in blaze in 10-inch linden tree, 20.30 meters (66.6 feet), 147° 56′; spindle on cupola on Double Mills Wharf house, 100 yards, 254° 58′; nail in blaze in 8-inch horse chestnut tree, 5.86 meters (19.23 feet), 281° 02′; right corner of right chimney outside of house, ¼ mile, 284° 01′; right corner of brick house, ⅝ mile, 344° 06′.

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Aye (Talbot County, C. C. Yates, 1910).—On the southeastern shore of Tred Avon River, about ½ mile east of Double Mills Wharf. Station is spindle on cupola of largest barn.

Stretch (Talbot County, C. C. Yates, 1910).—On the northwestern shore of the upper part of Tred Avon River, on Long Point at south side of entrance to Maxmore Creek, about ½ mile northeast of Double Mills Wharf. Station is on rounded marsh point, about 1 foot above high water, 16 yards west-northwest of shore, and 22 yards west-southwest of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right corner of large house, ⅜ mile, 11° 46′; weather vane on Double Mills Wharf house, ½ mile, 46° 15′; chimney among trees, ¾ mile, 167° 21′; near peak of barn cupola, ⅝ mile, 285° 53′; right corner of quarter house, ⅜ mile, 352° 10′.

Robertson (Talbot County, C. C. Yates, 1910).—On the northwestern shore of Tred Avon River, about ⅜ mile north of Double Mills Wharf, and ⅜ mile west of the end of Long Point, on grassy land about 2 feet above high water, 7 yards north of shore, 2 yards south of fence, 3 yards east of a few very small cedar trees, and 40 yards west of cedar trees on high land beyond gully. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Weather vane on Double Mills Wharf house, ⅜ mile, 4° 32′; right peak of large house, ⅜ mile, 27° 36′; nail in blaze in fence post, 4.47 meters (14.67 feet), 86° 08′; nail in blaze in fence post, 2.27 meters (7.45 feet), 125° 18′; nail in blaze in fence post, 1.80 meters (5.91 feet), 217° 08′; windmill on wooden tower, 1 mile, 280° 50′; right corner of building, ⅝ mile, 311° 25′; right corner of house, ½ mile, 331° 25′.

Wall (Talbot County, C. C. Yates, 1910).—On the southeastern shore of Tred Avon River, on point of land at west side of entrance to a small creek about 1 mile east-northeast of Double Mills Wharf, in pasture land, about 5 feet above high water, 20 yards south of extreme edge of bank, 4 yards west of terrace, 20 yards west of shore, 18 yards south-southeast of edge of bank, and 20 yards east of gully. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 30-inch oak tree, 20.96 meters (68.8 feet), 41° 35′; right corner of house, ⅝ mile, 69° 00′; weather vane on Double Mills Wharf house, 1 mile, 75° 50′; nail in blaze in 30-inch locust tree, 17.37 meters (57.0 feet), 98° 38′; nail in blaze in 14-inch hackberry tree, 5.0[illegible] meters (16.50 feet) 215° 56′; windmill on wooden tower, ⅜ mile, 292° 10′; nail in blaze in 28-inch cedar tree, 32.13 meters (105.4 feet), 316° 33′.

May (Talbot County, C. C. Yates, 1910).—On the northwestern shore of the upper part of Tred Avon River, about ⅜ mile east of entrance to Maxmore Creek and ⅞ mile northeast of Double Mills Wharf, at point of woods, on marsh, about 1 foot above high water, 10 yards west-northwest of shore, 11 yards north of shore, and 20 yards east of shore. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Weather vane on Double Mills Wharf house, ⅞ mile, 58° 29′; nail in blaze in 8-inch pine tree, 6.81 meters (22.34 feet), 138° 04′; nail in blaze in 4-inch pine tree, 9.39 meters (30.8 feet), 158° 24′; nail in blaze in 6-inch cedar tree, 6.44 meters (21.13 feet), 184° 29′; left corner of house, ¾ mile, 238° 57′; left corner of large house, 1 mile, 284° 57′; spindle on barn cupola, ½ mile, 304° 13′.

Peebee (Talbot County, C. C. Yates, 1910).—On the western shore of the upper part of Tred Avon River, about 1¼ miles northeast of Double Mills Wharf, ⅜ mile northwest of entrance to Peachblossom Creek, in cultivated land, about 4 feet above high water, 6 yards southwest of edge of bank, 14 yards west-northwest of edge of bank, 16 yards northwest of extreme point of bank, 50 yards northeast of clump of cedar trees, and 400 yards east of dense woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows:

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Left corner of frame building showing through cedar trees, 1 mile, 42° 44′; nail in blaze in 7-inch cedar tree, 16.90 meters (55.4 feet), 154° 52′; nail in blaze in 12-inch cedar tree, 9.83 meters (32.25 feet), 177° 41′; peak of building, 2 miles, 207° 12′; spindle on barn cupola, ½ mile, 241° 37′; nail in blaze in 16-inch cedar tree, 9.08 meters (29.79 feet), 277° 48′; left corner of house among trees, ¾ mile, 323° 38′.

Blossom (Talbot County, C. C. Yates, 1910).—On the eastern shore of Tred Avon River, at north side of entrance to Peachblossom Creek, on a marsh point, about 1 foot above high water, 14 yards east by south of shore of river, 12 yards west-northwest of shore of small elliptical cove, and 40 yards north by west of entrance to cove. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Weather vane on Double Mills Wharf house, 1⅜ miles, 67° 11′; near peak of barn, 1¼ miles, 172° 58′; near peak between two large chimneys on large house, ½ mile, 207° 56′; left corner of steps on large house among trees, ⅝ mile, 309° 48′; left corner of left post on large house among trees, ⅜ mile, 348° 31′; windmill on wooden tower, ⅜ mile, 355° 46′.

Camden (Talbot County, C. C. Yates, 1910).—On the eastern shore of the upper part of Tred Avon River, on Camden Point, at north side of entrance to a small cove, and about ⅜ mile north of entrance to Peachblossom Creek, on sandy grass land, about 2 feet above high water, 8 yards north-northeast of sandy shore, 22 yards south-southeast of shore of Tred Avon River, 30 yards east of extreme end of point, 10 yards southeast of a mudhole, and 30 yards southwest of a clump of cedar and hackberry trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left peak of long building, 1¼ miles, 48° 36′; near peak of barn, ⅞ mile, 172° 50′; nail in blaze in 7-inch cedar tree, 27.27 meters (89.5 feet), 206° 08′; nail in blaze in 5-inch hackberry tree, 26.84 meters (88.1 feet), 217° 32′; nail in blaze in 14-inch cedar tree, 27.81 meters (91.2 feet), 233° 10′; left corner of roof of house, ¾ mile, 322° 43′; windmill on wooden tower, ¾ mile, 354° 58′.

Neck (Talbot County, C. C. Yates, 1910).—On the western shore of the upper part of Tred Avon River, on Neck Point, opposite Camden Point, and about ½ mile north-northwest of entrance to Peachblossom Creek. Station is about 1 foot above high water, 5 yards west-southwest of shore, 12 yards north of shore, and 8 yards northwest of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of house, 1½ miles, 54° 42′; near peak of barn, ⅞ mile, 182° 45′; near peak of large house, ¾ mile, 234° 18′; right peak of large house, ½ mile, 268° 25′; left corner of large house among trees, ¾ mile, 338° 36′; windmill on wooden tower, ¾ mile, 343° 44′.

Gash (Talbot County, C. C. Yates, 1910).—On the eastern shore of the upper part of Tred Avon River, on point of land between Camden Point and Watermelon Point, about ¾ mile north of entrance to Peachblossom Creek, about 5 feet above high water, 16 yards north of shore, 25 yards east-northeast of point of shore, 18 yards east-southeast of bank, 10 yards west of field, and near several large pine trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Spindle on barn cupola, ⅝ mile, 3° 27′; left corner of near chimney of house, ¾ mile, 96° 01′; nail in blaze in 24-inch pine tree, 8.30 meters (27.23 feet), 135° 27′; nail in blaze in 5-inch locust tree, 11.93 meters (39.1 feet), 215° 27′; nail in blaze in 12-inch oak tree, 7.24 meters (23.75 feet), 310° 18′; weather vane on barn cupola, ⅜ mile, 330° 21′.

Stab (Talbot County, C. C. Yates, 1910).—On the western shore of the upper part of Tred Avon River, on first point north of Neck Point, about ⅞ mile north-northwest of entrance to Peachblossom Creek, in cultivated land, about 8 feet above high water, 3 yards northwest of edge of bank, 25 yards northeast of an oak tree at a ravine, and 6 yards west of point of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Dis-

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tances and azimuths to various points of reference are as follows: Nail in blaze in 30-inch oak tree, 22.06 meters (72.4 feet), 40° 34′; right peak of large barn, ⅜ mile, 90° 36′; nail in blaze in 12-inch cedar tree, 23.61 meters (77.5 feet), 192° 32′; left peak of barn, 1⅛ miles, 216° 21′; peak of dormer window of house, ¾ mile, 230° 53′; spindle on barn cupola, ⅝ mile, 301° 02′; left corner of large house among trees, 1⅛ miles, 341° 51′; windmill on wooden tower, 1⅛ miles, 345° 09′.

Water (Talbot County, C. C. Yates, 1910).—On the western shore of the upper part of Tred Avon River, opposite Watermelon Point, about ¾ mile north of Neck Point, and 1⅛ miles north of entrance to Peachblossom Creek, in a cultivated field west of a broad marsh, about 6 feet above high water, 2 yards west of edge of bank, 35 yards north-northwest of point of bank, 200 yards south of point of bank, and 45 yards east-northeast of inside curve of cut. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Center of cedar tree, 120 yards, 102° 16′; left corner of house, ⅝ mile, 155° 10′; right corner of house, ⅛ mile, 196° 39′; left large chimney of house, ¾ mile, 322° 52′; spindle on barn cupola, ⅞ mile, 328° 47′.

Melon (Talbot County, C. C. Yates, 1910).—On the eastern shore of the upper part of Tred Avon River, on Watermelon Point, about ½ mile south of entrance to Dixon Creek, ¾ mile north of Camden Point, and 1⅛ miles north of entrance to Peachblossom Creek, about 9 feet above high water, 30 yards south-southeast of edge of bank, 60 yards east by south of point of bank at large cedar tree, 35 yards east of edge of bank, 150 yards northwest of a cove, and 100 yards west by south of small cedar tree at cut in bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Peak of porch of house, ½ mile, 126° 13′; weather vane on barn, ⅝ mile, 159° 14′; near peak of large barn, ⅞ mile, 174° 47′; peak of left dormer window of large house, ¾ mile, 204° 06′; right side of right porch pillar on house, ¼ mile, 240° 06′; left corner of large chimney of house, ⅝ mile, 352° 36′.

Radcliffe (Talbot County, C. C. Yates, 1910).—On the northwestern shore of Tred Avon River, on point of land between Dixon Creek and Tred Avon River, on a small piece of fast land at end of marsh point, about 2 feet above high water, 11 yards northeast by north of shore, 15 yards north of shore, 40 yards southeast of shore, and among several pine and oak trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left end of boathouse roof, ¼ mile, 32° 57′; near peak of barn, ¼ mile, 52° 33′; left chimney of house, ⅝ mile, 102° 59′; nail in blaze in 20-inch pine tree, 12.59 meters (41.3 feet), 122° 35′; near peak of house, ¼ mile, 135° 40′; nail in blaze in 12-inch oak tree, 5.01 meters (16.44 feet), 219° 44′; near peak of barn, ½ mile, 267° 21′; nail in blaze in 20-inch pine tree, 9.77 meters (32.05 feet), 268° 45′; end of stable, ⅜ mile, 313° 33′.

Bateman (Talbot County, C. C. Yates, 1910).—On the southeastern shore of the upper part of Tred Avon River, about ⅜ mile east of entrance to Dixon Creek, and 1⅛ miles southwest of Easton Point wharf. Station is on marsh, about 1 foot above high water, 5 yards southeast of shore, 12 yards southwest of shore, and 20 yards northeast of high land. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left end of boathouse roof, ½ mile, 66° 28′; peak of barn, ½ mile, 78° 16′; near peak of corn house, ½ mile, 79° 47′; left chimney of large house, ⅞ mile, 104° 55′; weather vane on large house, ¼ mile, 118° 38′; middle dormer window of large house, ⅜ mile, 180° 35′; peak of barn, ⅜ mile, 203° 15′; windmill, ¼ mile, 304° 44′.

Weather Bureau staff, Oxford (Talbot County, C. C. Yates, 1910).—On the eastern side of Tred Avon River, in the town of Oxford, in park south of high and primary schools, 55 yards east of shore of Tred Avon River, 55 yards west of Morris Street, and in center of circle of trees. Station is center of galvanized-iron staff on square galvanized angle-iron tower.

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TRIPPE CREEK

Layor (Talbot County, C. C. Yates, 1910).—On the southern shore of Trippe Creek, about ¼ mile east of Tred Avon River, in edge of cultivated land, about 5 feet above high water, 50 yards south of shore, 17 yards east of bank, 2 yards south-southwest of water bushes, and 200 yards west of large lone tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Top of roof of tower, ⅜ mile, 27° 26′; near peak of large house, 1½ miles, 50° 18′; near peak of large frame house, 1⅜ miles, 83° 32′; near peak of ell of house, ⅞ mile, 205° 27′; right peak of house, ½ mile, 339° 35′.

Toe (Talbot County, C. C. Yates, 1910).—On the northern shore of Trippe Creek, on point of land about ½ mile northeast of point at north side of entrance to Trippe Creek, on a marsh point, about 1 foot above high water, 10 yards northwest of shore, 14 yards southwest of shore, 12 yards north of round point of shore, 12 yards west of round point of shore, and 30 yards southeast of cedar and persimmon trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of barn, 1 mile, 11° 08′; top of tower of house, ⅝ mile, 22° 11′; nail in blaze in 7-inch persimmon tree, 25.74 meters (84.4 feet), 111° 40′; nail in blaze in 6-inch cedar tree, 21.68 meters (71.1 feet), 135° 01′; right corner of house, ½ mile, 211° 26′; near peak of house, 1¼ miles, 260° 22′; near peak of house, 1⅜ miles, 277° 25′.

Mistle (Talbot County, C. C. Yates, 1910).—On the southern shore of Trippe Creek, on a very long point, about ½ mile east-northeast of Tred Avon River, on a marsh point, about 1 foot above high water, 10 yards south-southeast of shore, 14 yards west by north of shore, 24 yards southwest of extreme end of point, 4 yards south of a cedar tree, and 12 yards north of a cedar tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 6-inch cedar tree, 13.42 meters (44.0 feet), 22° 05′; near peak of house, ¼ mile, 186° 23′; nail in blaze in 6-inch cedar tree, 3.45 meters (11.32 feet), 214° 01′; near peak of large house, ⅝ mile, 234° 14′; right corner of house, 1 mile, 273° 23′; left corner of large chimney, ⅝ mile, 304° 44′; nail in blaze in 12-inch cedar tree, 11.11 meters (36.5 feet), 352° 49′.

Trippe (Talbot County, C. C. Yates, 1910).—On the northern shore of Trippe Creek, about ⅝ mile east of Tred Avon River, and ⅛ mile east of entrance to a small creek, on a marsh point, about 1 foot above high water, 23 yards northwest of shore at entrance to slough, 30 yards east-northeast of shore, and 50 yards north by east of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left peak of house, 1 mile, 20° 15′; stack of ice plant, 2¾ miles, 55° 59′; near peak of barn, ⅛ mile, 201° 12′; near peak of large house, ½ mile, 250° 20′; right corner of house, ⅝ mile, 262° 49′; near peak of dormer window on large house, 1½ miles, 290° 22′; left corner of large chimney, ¾ mile, 318° 11′.

Venture (Talbot County, C. C. Yates, 1910).—On the northern shore of Trippe Creek, on a point at west side of cove about 1 mile east of Tred Avon River, about 1 foot above high water, on the inner edge of a strip of marsh at bottom of bank 4 feet high, 4 yards north of shore of marsh, 8 yards north-northwest of point of marsh, 3 yards south by west of top of bank, 7 yards west of point of bank, and 6 yards west of lone cedar tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left peak of barn, ¼ mile, 154° 05′; spindle on right cupola of barn, ⅜ mile, 221° 58′; nail in blaze in 18-inch cedar tree, 5.74 meters (18.83 feet), 274° 00′; peak of dormer window of large house, 1 mile, 291° 26′; right peak of right barn, ¾ mile, 318° 58′; left corner of left chimney of house, ½ mile, 339° 56′.

Crack (Talbot County, C. C. Yates, 1910).—On the southern shore of Trippe Creek, on point at east side of entrance to small creek, about 1¼ miles from

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where Trippe Creek enters Tred Avon River. Station is about 3 feet above high water, 13 yards south of edge of bank, 15 yards northeast of shore, 40 yards east of extreme end of point, and among scattering locust trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 3-inch cedar tree, 13.98 meters (45.9 feet), 46° 43′; nail in blaze in 3-inch locust tree, 9.98 meters (32.74 feet), 80° 38′; nail in blaze in 2-inch locust tree, 7.78 meters (25.52 feet), 138° 17′; near peak of shed, ¾ mile, 173° 11′; spindle on right one of four cupolas, ⅞ mile, 204° 07′; near peak between two chimneys on large house, 1½ miles, 226° 34′; left corner of house, ¼ mile, 257° 29′; right peak of barn, ¾ mile, 283° 40′; near peak of barn, ¾ mile, 330° 25′.

Deux (Talbot County, C. C. Yates, 1910).—On the southern shore of Trippe Creek, about 1¼ miles from Tred Avon River, in an orchard, about 8 feet above high water, 50 yards north-northeast of a rambling house, 20 yards southeast of top of bank, 14 yards southwest of top of bank, 13 yards south of point of bank at ditch, and 3 yards east of drainage ditch. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to points of reference are as follows: Near corner of house, 51 yards, 25° 47′; left peak of barn, 1 mile, 125° 47′; nail in blaze in 10-inch pear tree, 7.43 meters (24.38 feet), 128° 18′; near peak of barn, ¾ mile, 154° 41′; left peak of large barn, ⅝ mile, 187° 00′; nail in blaze in twin locust tree, 11.66 meters (38.2 feet), 192° 43′; nail in blaze in 6-inch pear tree, 6.29 meters (20.64 feet), 266° 49′; right corner of house, ⅛ mile, 329° 12′.

Plow (Talbot County, C. C. Yates, 1910).—On the northern shore of Trippe Creek, on point of land between two coves, about 1¼ miles from Tred Avon River, on a marsh point, about 1 foot above high water, 15 yards west-northwest of shore, 25 yards north of shore, 20 yards east of extreme end of point, and 5 yards south of foot of bank 7 feet high. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of barn, ½ mile, 2° 45′; left corner of large chimney, ½ mile, 16° 25′; nail in blaze in 3-inch persimmon tree, 12.76 meters (41.9 feet), 157° 02′; nail in blaze in 5-inch oak tree, 14.53 meters (47.7 feet), 167° 02′; nail in blaze in 3-inch persimmon tree, 15.85 meters (52.0 feet), 184° 12′; near peak of barn, ⅝ mile, 244° 22′; right corner of porch underpinning, ⅜ mile, 291° 29′; left peak of barn, 1 mile, 314° 07′.

Cam (Talbot County, C. C. Yates, 1910).—On the southern shore of Trippe Creek, on a prominent point about 1½ miles from where Trippe Creek enters Tred Avon River, on a marsh point, about 10 yards southeast of shore, 20 yards south-southwest of point of shore, and 15 yards northeast by east of point of bank at marsh. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 5-inch oak tree, 15.77 meters (51.7 feet), 10° 11′; nail in blaze in 5-inch oak tree, 16.93 meters (55.5 feet), 27° 15′; left corner of large chimney, ¼ mile, 52° 50′; left peak of barn showing through trees, ⅞ mile, 115° 04′; right peak of barn with cupola, ½ mile, 169° 07′; left corner of underpinning of Goldsborough's house, ⅜ mile, 252° 37′; right corner of large chimney, ⅝ mile, 280° 20′; left peak of house, ⅝ mile, 299° 53′; nail in blaze in 4-inch persimmon tree, 23.51 meters (77.1 feet), 343° 40′.

Higher (Talbot County, C. C. Yates, 1910).—On the northern shore of Trippe Creek, at east side of entrance to a cove, about 1¾ miles from where Trippe Creek enters Tred Avon River, in cultivated land, about 8 feet above high water, 30 yards northeast of edge of bank, 35 yards southeast by east of row of trees, 50 yards east-southeast of point of bank and trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of large barn, ⅝ mile, 24° 48′; left corner of large chimney, ⅝ mile, 35° 15′; nail in blaze in 3-inch sassafras tree, 31.63 meters (103.8 feet), 118° 03′; nail in blaze in 5-inch locust

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tree, 31.96 meters (104.9 feet), 122° 05′; spindle on left one of four barn cupolas, ⅝ mile, 135° 03′; nail in blaze in 5-inch locust tree, 30.93 meters (101.5 feet), 153° 16′; spindle on cupola, 1 mile, 268° 09′; near peak of house, ¾ mile, 349° 29′.

All (Talbot County, C. C. Yates, 1910).—On the northern shore of Trippe Creek, about 1¾ miles from where Trippe Creek enters Tred Avon River, 300 yards west by north of colonial house, about 1 foot above high water, 35 yards southeast of shore, 35 yards east of round point of shore, 80 yards northwest of cut in shore, and 40 yards south by east of left one of nine large pine trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right peak of long barn, ½ mile, 5° 55′; left peak of house, ½ mile, 44° 34′; left peak of barn, 1¼ miles, 109° 22′; spindle on left one of four cupolas, ½ mile, 145° 44′; left corner of underpinning of Goldsborough's house, 300 yards, 255° 14′; right corner of large chimney, ⅛ mile, 297° 00′.

ISLAND CREEK

Landeye (Talbot County, C. C. Yates, 1910).—On the northeastern shore of Choptank River, on point at south side of entrance to Island Creek, about 1½ miles east of Choptank River Light, in cultivated land, about 5 feet above high water, 15 yards east-southeast of edge of bank, 50 yards southwest of fringe of trees and bushes, 50 yards south-southwest of point of field and end of fringe of trees and bushes. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of house near Bachelors Point, 1¼ miles, 132° 12′; left corner of barn, ¾ mile, 206° 00′; left corner of barn, ¾ mile, 313° 57′.

Straw (Talbot County, C. C. Yates, 1910).—On the northern shore of Island Creek, ⅝ mile east-northeast of where creek enters Choptank River, about 6 feet above high water, 3 yards northeast of edge of bank, 18 yards east of bank, 4 yards west of wire fence, 8 yards northwest by west of point where bank meets fence, and 5 yards south of southeast corner of small house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left peak of barn, ⅞ mile, 17° 04′; nail in blaze in 8-inch locust tree, 14.86 meters (48.8 feet), 107° 51′; left corner of small house, 5.94 meters (19.49 feet), 126° 36′; near corner of small house, 4.04 meters (13.25 feet), 173° 26′; spindle on barn cupola, ½ mile, 235° 32′; nail in blaze in 4-inch locust tree, 4.33 meters (14.21 feet), 261° 53′; nail in blaze in 14-inch locust tree, 7.89 meters (25.89 feet), 318° 18′.

Berry (Talbot County, C. C. Yates, 1910).—On the southern shore of Island Creek, on a prominent point about ½ mile east of where creek enters Choptank River, in cultivated land, about 6 feet above high water, 17 yards south-southwest of edge of bank, 17 yards west-southwest of edge of bank, 21 yards southeast of edge of bank, 20 yards southeast of small house, and 3 yards west of a line of four trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right corner of house, ⅝ mile, 1° 15′; right corner of house, ½ mile, 102° 11′; right corner of house, ⅜ mile, 131° 23′; nail in blaze in 8-inch apple tree, 14.62 meters (48.0 feet), 179° 38′; nail in blaze in 12-inch apple tree, 5.92 meters (19.42 feet), 198° 19′; spindle on barn cupola, ½ mile, 218° 09′; left peak of long barn, 1 mile, 249° 51′; near corner of house, 18.33 meters (60.1 feet), 312° 50′; nail in blaze in 14-inch apple tree, 6.94 meters (22.77 feet), 331° 31′.

Jay (Talbot County, C. C. Yates, 1910).—On the southern shore of Island Creek, about 1 mile east of where creek enters Choptank River, in northeast corner of cultivated field, about 5 feet above high water, 3 yards southwest of point of bank, 3 yards south-southeast of edge of bank, 3 yards west-southwest of edge of bank, and 30 yards northeast of scattering trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Spindle on barn cupola,

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⅜ mile, 6° 42′; near peak of house, ¾ mile, 25° 07′; left corner of chimney outside left end of house, ⅝ mile, 74° 53′; left peak of barn, ⅝ mile, 107° 26′; near peak of large barn, ½ mile, 205° 36′; near peak of barn, ⅞ mile, 321° 51′.

Delahay (Talbot County, C. C. Yates, 1910).—On northern shore of Island Creek, about 1 mile east-northeast of where the creek enters the Choptank River, in cultivated land about 5 feet above high water, 2 yards northwest of edge of bank, 100 yards east of edge of bank of inlet, 27 yards northeast of point of bank, and 75 yards southwest of farm buildings. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of large modern house, 1 mile, 17° 59′; near peak of large barn, 1¼ miles, 33° 34′; nail in blaze in 10-inch apple tree, 21.08 meters (69.2 feet), 61° 28′; nail in blaze in 10-inch apple tree, 21.36 meters (70.1 feet), 79° 50′; nail in blaze in 7-inch apple tree, 10.12 meters (33.2 feet), 165° 49′; spindle on barn cupola, 250 yards, 209° 05′; left corner of house, ⅞ mile, 271° 13′; near peak of barn, ¾ mile, 281° 14′.

Kent (Talbot County, C. C. Yates, 1910).—On the northern shore of Island Creek, on a point about 1¼ miles northeast of where creek enters Choptank River, in a cultivated field, about 5 feet above high water, 50 yards northwest of top of bank, 80 yards east of bank, 75 yards north-northeast of point, and 110 yards east-southeast of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile, note 17. Distances and azimuths to various points of reference are as follows: Peak of L of large house, 1¼ miles, 43° 30′; near peak of building, ⅝ mile, 74° 21′; spindle on barn cupola, ¼ mile, 97° 08′; near peak of large house, ½ mile, 165° 39′; left corner of chimney outside left end of house, ½ mile, 261° 08′; near peak of barn, ⅝ mile, 297° 17′.

Mean (Talbot County, C. C. Yates, 1910).—On the southern shore of Island Creek, on point at north side of entrance to a south fork of creek, about 1¼ miles east-northeast of where creek enters Choptank River, in cultivated land, about 5 feet above high water, 13 yards east of edge of bank, 10 yards north of line of trees at edge of bank, and 12 yards northeast of point of trees. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 3-inch locust tree, 8.12 meters (26.6 feet), 3° 24′; nail in blaze in 3-inch locust tree, 12.35 meters (40.52 feet), 51° 46′; spindle on barn cupola, ½ mile, 116° 41′; near peak of house, ½ mile, 157° 24′; near peak of barn, ⅜ mile, 283° 48′; nail in blaze in 3-inch cherry tree, 13.48 meters (44.2 feet), 319° 01′.

Maslin (Talbot County, C. C. Yates, 1910).—On the southeastern side of Island Creek, about 1½ miles northeast of where creek enters Choptank River, about 8 feet above high water, 95 yards southeast of shore, near rail fence, 30 yards north by west of quarter buildings, 9 yards west of fence corner, 6 yards northwest by west of wire fence, 7 yards southwest by west of wire fence, and 25 yards northwest by north of a graveyard. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to points of reference are as follows: Near corner of brick outhouse, 21.38 meters (70.1 feet), 15° 57′; spindle on barn cupola, ⅝ mile, 85° 44′; left peak of barn, ½ mile, 197° 37′; left corner of house, 68 yards, 332° 18′; nail in blaze in 36-inch walnut tree, 12.82 meters (42.1 feet), 345° 36′.

Harry (Talbot County, C. C. Yates, 1910).—On the northern shore of Island Creek, about 1½ miles from Choptank River, about 6 feet above high water, 9 yards northwest of edge of bank at cedar trees, 20 yards northeast of cut in bank, and 50 yards south-southwest of bank at cut in shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right corner of building, ⅝ mile, 6° 42′; spindle on barn cupola, ½ mile, 62° 13′; near peak of building, ⅝ mile, 139° 21′; nail in blaze in 4-inch locust tree, 17.38 meters (57.0 feet), 247° 33′; nail in blaze in 4-inch locust tree, 8.81 meters (28.9 feet), 274° 59′; nail in blaze in 4-inch cedar tree, 8.04 meters (26.38 feet), 313° 40′; left chimney outside left end of house, ⅜ mile, 327° 52′.

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Healey (Talbot County, C. C. Yates, 1910).—On the southern shore of Island Creek, at west side of entrance to a cove, about 1⅞ miles from Choptank River, in a cultivated field, about 10 feet above high water, 11 yards west-southwest of bank fringed with trees, and 150 yards south of a point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of barn, ½ mile, 11° 27′; right side of right chimney of house, ⅜ mile, 49° 53′; left peak of large barn, ¾ mile, 123° 19′; nail in blaze in 3-inch oak tree, 15.68 meters (51.4 feet), 180° 27′; peak of house at chimney, ½ mile, 213° 24′; nail in blaze in 5-inch wild cherry tree, 9.89 meters (32.45 feet), 228° 14′; nail in blaze in 5-inch wild cherry tree, 19.37 meters (63.5 feet), 285° 03′.

Charles (Talbot County, C. C. Yates, 1910).—On the northern shore of Island Creek, about 2 miles from Choptank River, in southwest corner of a truck garden, about 6 feet above high water, 6 yards north of edge of bank, 25 yards west of top of bank near locust tree, and 3 yards east of edge of a 12-foot hole 6 feet deep. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 12-inch cherry tree, 4.17 meters (13.68 feet), 10° 21′; right corner of chimney on quarter house, ½ mile, 23° 28′; near peak of large barn, ⅝ mile, 111° 03′; nail in blaze in 5-inch locust tree, 4.82 meters (15.81 feet), 114° 28′; left corner of barn, 100 yards, 163° 15′; nail in blaze in 4-inch locust tree, 12.97 meters (42.6 feet), 281° 24′; nail in blaze in 4-inch locust tree, 9.19 meters (30.15 feet), 290° 30′; near peak of small building, ¾ mile, 311° 19′.

Potato (Talbot County, C. C. Yates, 1910).—On the northern shore of Island Creek, about 2¼ miles northeast of where creek enters Choptank River, in cultivated land, about 8 feet above high water, 50 yards northwest of edge of bank, 70 yards west of shore at lowest point of bank, 70 yards north of edge of bank, and 400 yards south of woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of large barn, ⅝ mile, 27° 21′; near peak of house, 1⅝ miles, 54° 58′; right corner of chimney of house, ¼ mile, 87° 23′; left peak of outhouse, ¼ mile, 213° 38′; right corner of Ritter house, ⅛ mile, 257° 25′; right peak of large barn, ¾ mile, 308° 41′.

Poco (Talbot County, C. C. Yates, 1910).—On the southern shore of the upper part of Island Creek, on point about 2¼ miles from where creek enters Choptank River, in a cultivated field about 9 feet above high water, 70 yards east-southeast of shore at low bank, 80 yards south by east of edge of bank, 100 yards west of a point of bank, and 130 yards south by west of a point of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Peak of L of house, ⅝ mile, 32° 34′; left peak of barn, ½ mile, 46° 14′; left peak of building, ⅝ mile, 61° 06′; windmill on wooden tower, ⅞ mile, 110° 02′; left corner of chimney at left end of house, ½ mile, 320° 41′.

Ritter (Talbot County, C. C. Yates, 1910).—On the northern side of Island Creek, about 2½ miles from where it enters Choptank River, in cultivated land, about 8 feet above high water, 120 yards north-northwest of nearest point of shore, 160 yards southwest by west of shore of small creek at lowest part of bank, 50 yards east of a wire fence, and 120 yards south of a fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left side of tall chimney, 1 mile, 50° 24′; near peak of large barn, 350 yards, 107° 29′; left peak of long barn, ¾ mile, 188° 24′; near peak of barn, ½ mile, 248° 32′; left corner of large chimney of house, ½ mile, 253° 25′; right corner of vine-covered chimney, ⅝ mile, 297° 06′.

Moke (Talbot County, C. C. Yates, 1910).—On the northern shore of Island Creek, on a prominent point extending into a bend in the creek, about 2½ miles from where creek enters Choptank River, in a pasture, about 8 feet above high water, 23 yards north-northwest of edge of bank, 100 yards northeast of edge of bank at a point, and 100 yards southeast of edge of bank at

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a cedar tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right corner of large chimney, ¾ mile, 102° 23′; left corner of Ritter house, ¼ mile, 126° 18′; left peak of large house, ¾ mile, 181° 56′; nail in blaze in 6-inch locust tree, 29.58 meters (97.0 feet), 273° 59′; left peak of large barn, ½ mile, 283° 46′; nail in blaze in 4-inch locust tree, 34.39 meters (112.8 feet), 284° 42′; nail in blaze in 5-inch locust tree, 22.86 meters (75.0 feet), 345° 52′.

Kit (Talbot County, C. C. Yates, 1910).—On the southeastern shore of Island Creek, on a prominent point extending into a bend of the creek, and about 2¾ miles from where creek enters Choptank River, in cultivated land, about 8 feet above high water, 13 yards east of top of bank at trees, 20 yards southeast of point of bank, and 30 yards south of top of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 5-inch oak tree, 14.97 meters (49.1 feet), 15° 03′; nail in blaze in 8-inch oak tree, 11.27 meters (37.0 feet), 78° 48′; nail in blaze in 10-inch oak tree, 11.73 meters (38.5 feet), 94° 53′; right peak of large house, ½ mile, 162° 11′; right peak of barn, ⅜ mile, 230° 31′; right corner of vine-covered house, ⅜ mile, 308° 45′.

Show (Talbot County, C. C. Yates, 1910).—On the northern shore of the upper part of Island Creek, on a point of land between two coves, about 2¾ miles east of where Island Creek enters Choptank River. Station is about 9 feet above high water, 6 yards northwest of top of bank, and 35 yards east by north of a large cherry tree in a clump of large trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 5-inch locust tree, 16.48 meters (54.1 feet), 33° 12′; left peak of large house, ¼ mile, 171° 23′; left corner of house, ⅜ mile, 266° 58′; nail in blaze in 4-inch locust tree, 10.13 meters (33.2 feet), 278° 03′; right corner of vine-covered house, ½ mile, 314° 31′; nail in blaze in 5-inch locust tree, 7.98 meters (26.18 feet), 345° 32′.

LA TRAPPE CREEK

Grubin (Talbot County, C. C. Yates, 1909).—On the northern shore of Choptank River, on east side of entrance to La Trappe Creek, on grassy marsh back of gravel beach, about 1 foot above high water, 13 yards east of shore, 13 yards south of shore, 20 yards southeast of extreme end of point, and 100 yards northwest of a pond. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: South peak of Travers Wharf house, 3 miles, 46° 23′; center of smaller wooden tower, 3 miles, 88° 17′; red beacon, ¼ mile, 92° 08′; south peak of shed, ⅝ mile, 154° 28′; near peak of barn, ⅝ mile, 183° 19′; nail in blaze in 7-inch stump, 12.17 meters (39.9 feet), 196° 08′; chimney of house, ⅜ mile, 201° 12′; nail in blaze in a 5-inch cedar tree, 12.04 meters (39.5 feet), 226° 55′.

Lan (Talbot County, C. C. Yates, 1910).—On the northwestern shore of La Trappe Creek, about ¾ mile north of Choptank River, on tree-fringed high land, about 10 feet above high water, 8 yards southeast of shore, 85 yards north of shore, and 105 yards northeast of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 4-inch locust tree, 12.46 meters (40.9 feet), 65° 16′; chimney on small house, ¼ mile, 116° 01′; nail in blaze in 6-inch locust tree, 26.39 meters (86.6 feet), 172° 48′; near peak of barn, ¼ mile, 216° 23′; near peak of barn, ¾ mile, 256° 22′; chimney of abandoned house, ⅜ mile, 281° 49′; chimney of 1½-story house, ⅝ mile, 287° 53′; peak of metal-roofed house, ½ mile, 303° 07′; chimney of house in trees, ½ mile, 309° 15′.

Gis (Talbot County, C. C. Yates, 1910).—On the southeastern shore of La Trappe Creek, about ¼ mile south of a wharf and ½ mile northeast of

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Choptank River, on a sand-marsh point, about 1 foot above high water, 11 yards southeast of shore, 13 yards north of shore, 20 yards northeast of shore, and 30 yards north of high cultivated land. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Red beacon, ⅝ mile, 40° 58′; chimney of house, ½ mile, 113° 58′; left chimney of house, ⅜ mile, 170° 18′; chimney between two small houses, ¼ mile, 182° 40′; near peak of 1½-story house, ⅜ mile, 201° 25′.

Rice (Talbot County, C. C. Yates, 1910).—On the northwestern shore of La Trappe Creek, about ⅛ mile northeast of a wharf and ¾ mile north-northeast of Choptank River, on tree-fringed cultivated land, about 3 feet above high water, 28 yards south of shore, 15 yards south of edge of marsh and cultivated land, and 50 yards west of a small creek. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 5-inch locust tree, 21.00 meters (68.9 feet), 27° 01′; chimney between two 1-story houses, 125 yards, 72° 00′; near peak of barn, ¼ mile, 105° 39′; chimney of small house, 150 yards, 219° 39′; near peak of barn, ⅜ mile, 269° 12′; nail in blaze in 5-inch locust tree, 19.23 meters (63.1 feet), 270° 33′; nail in blaze in 3-inch locust tree, 11.99 meters (39.3 feet), 328° 40′.

Inez (Talbot County, C. C. Yates, 1910).—On the southeastern shore of La Trappe Creek, on southwestern shore of a small cove about ¾ mile northeast of Choptank River, on high land in pasture field, about 10 feet above high water, 3 yards south of tree-fringed bank and 125 yards northeast of small house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right chimney of house in trees, ¼ mile, 2° 46′; chimney of 1½-story house, 125 yards, 63° 49′; near peak of abandoned house, 125 yards, 80° 03′; nail in blaze in 3-inch hackberry tree, 11.11 meters (36.4 feet), 101° 58′; point of dairy roof, ¼ mile, 142° 47′; chimney of 1½-story house, ¼ mile, 147° 55′; peak of roof of small house, ¼ mile, 183° 26′; peak of barn, ⅞ mile, 190° 27′; nail in blaze in 4-inch locust tree, 3.44 meters (11.29 feet), 211° 47′; peak of barn, ⅛ mile, 343° 01′.

LITTLE CHOPTANK RIVER

Ragged Point 3 (Dorchester County, J. W. Donn, 1901; 1910).—On the northern shore of Little Choptank River, on Ragged Island, about 3 miles east of the northeast end of James Island, on a small marsh point, about 1 foot above high water, 3 yards east of shore, 5 yards northwest of shore, 9 yards north of extreme end of point, and 100 yards east of a small marsh island. Station marked by nail in cedar stub with top flush with ground. Reference mark of 1908 is a 4-inch tile pipe set in and filled with cement and projecting 2 inches above surface of ground; it is 21.75 meters (71.4 feet) from station in azimuth 210° 42′. Reference mark set in 1910 is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 27.27 meters (89.5 feet) from station in azimuth 211° 48′. Distances and azimuths to other points of reference are as follows: Near peak of barn, 2½ miles, 5° 39′; near peak of barn, 2⅛ miles, 12° 30′; left chimney of house on Hooper Point, 2⅛ miles, 13° 34′; near peak of barn, 2½ miles, 25° 50′; near peak of barn on Hills Point, 2⅞ miles, 143° 47′; near peak of barn, 2 miles, 322° 19′; near peak of barn, 2 miles, 326° 55′; near chimney of house, 2 miles, 328° 00′; right chimney of house, 2¼ miles, 331° 31′.

Can (Dorchester County, O. W. Ferguson, 1908; 1910).—On the southern shore of Little Choptank River, on a point about 2 miles east of the southeastern end of James Island and 1 mile west of entrance to Slaughter Creek. Station is on a marsh point, about 1 foot above high water, 9 yards southwest of shore, 17 yards southeast of end of point, 20 yards east of shore, and 180 yards north-northwest of a house among trees. Station mark is center of 4-inch tile pipe set in cement and projecting 2 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 9.25 meters (30.35 feet) from station in azimuth

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353° 02′. Distances and azimuths from the station of other points of reference are as follows: Near peak of large barn, 1¼ miles, 58° 38′; left chimney of large house on north end of Taylor Island, 1⅜ miles, 76° 33′; tangent to north end of Taylor Island, 1⅜ miles, 86° 57′; chimney on near end of old house, 2 miles, 98° 17′; chimney on end of small addition to house, 2¼ miles, 129° 00′; left chimney of house, 180 yards, 301° 25′.

Hill (Dorchester County, O. W. Ferguson, 1908).—On eastern side of Chesapeake Bay, on the westernmost part of Hills Point, at northern side of entrance to Little Choptank River, on ground about 9 feet above high water and about 400 meters in azimuth 151° 53′ from the extreme prominent southern point. The station is in a field and is 13 meters east and 10 meters north from bank which is caving considerably. Station is marked by a 4-inch tile pipe about 20 inches long set in and filled with cement, and top projecting a few inches above surface of ground. Reference mark is a triangle blazed about 10 inches above the ground in a 10-inch cedar tree, the most southerly tree in a row; it is 52.105 meters (170.95 feet) from the station in azimuth 201° 20′.

Hoop (Dorchester County, O. W. Ferguson, 1908).—On Hooper Point, southern side of Little Choptank River, on bank 10 feet above high water and about 175 meters east by south from the most northerly point of land west of the wide mouth of Slaughter Creek. Station marked by a 2 by 4 inch stake. Reference mark is center of 4-inch tile pipe 20 inches long, set in and filled with cement and projecting a few inches above the ground; it is 15.60 meters (51.2 feet) from station in azimuth 10° 20′.

James (Dorchester County, C. C. Yates, 1908).—On the eastern side of Chesapeake Bay, on northeast end of James Island, at south side of entrance to Little Choptank River, on marsh about 1 foot above high water, 8 yards west of shore, 11 yards northwest of shore, 85 yards south of shore, and 75 yards east of pine woods. Station marked by center of 2-inch tile pipe projecting 2 inches above surface of ground. Subsurface mark is 2-inch tile pipe buried with top 2 inches below base of surface tile. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 19.48 meters (63.9 feet) from station in azimuth 84° 17′. Distances and azimuths from the station of other points of reference are as follows: Near peak of house, 3½ miles, 215° 51′; chimney on near end of house, 3¼ miles, 251° 56′; near chimney of house on Hooper Point, 3 miles, 303° 50′; left peak of long barn, 3½ miles, 310° 19′; near peak of barn, 2½ miles, 349° 23′.

Jim (Dorchester County, O. W. Ferguson, 1908).—On a small island distant 275 meters in azimuth 151° 53′ from the very prominent and sharp point at the northwest corner of James Island. Marked by a 4-inch tile pipe 20 inches long, set in and filled with cement and projecting several inches above the surface of the ground.

Pat (Dorchester County, O. W. Ferguson, 1908).—On eastern side of Chesapeake Bay and western side of James Island, 1,200 meters from the north end of the island and 22 meters east of a rapidly washing bank. Station marked by 4-inch tile pipe filled with and set in cement and projecting several inches above surface of ground. Reference mark is a tile set in a fence corner, 136.02 meters (446.3 feet) from station in azimuth 258° 09′.

Rede (Dorchester County, O. W. Ferguson, 1908; 1910).—On the southwestern shore of Little Choptank River, on James Island, about 3 miles west-northwest of Hooper Strait. Station is eastern chimney on a two-story house on east side of island and on south side of Oyster Creek at its mouth.

Tobacco Stick (Dorchester County, J. W. Donn, 1901; 1910).—On the southern shore of Little Choptank River, on northern end of point between Woolford Creek and Tobacco Stick Bay, about in center of a shell pile near end of point, about 1 foot above high water, 13 yards southeast of shore, 14 yards south of shore, and 30 yards southwest of shore. Station marked by a 6-inch cedar stub with top even with surface of ground. Reference mark 1908 is a 4-inch tile pipe 20 inches long, filled with and set in cement and projecting several inches above surface of ground; it is 2.84 meters (9.31 feet), from station in azimuth 256° 30′. Reference mark 1910 is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 21.35 meters (70.0 feet) from station, in azimuth 330° 25′. Distances and azimuths from the station of other points of reference are as follows: Chimney on left end of house, 1⅜ miles, 136° 03′; chimney on left end of house, 3 miles, 159° 47′; near peak of barn, 1⅝ miles, 181° 23′; tangent of McKells Point, 1 mile, 210° 53′; near

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peak of old barn, 2 miles, 314° 58′; right end of roof of cannery, 1 mile, 338° 56.

Cedar Point (Dorchester County, J. W. Donn, 1901; 1903).—On north side of Little Choptank River, on Cedar Point, opposite mouth of Fishing Creek, on a small beach of sand and shells. Marked by an oak stub, with two reference marks composed of whitewashed planks, 10 meters from station, and northeast and south-southeast from it, respectively.

Phillips (Dorchester County, J. W. Donn, 1901; 1903).—On north side of Little Choptank River, on point at west side of entrance to Phillips Creek. Marked by a locust stub. Station is 44.89 meters (147.3 feet) west from a locust tree marked with a blazed triangle and 54.91 meters (180.2 feet) south-southwest from large elm on edge of marsh.

Skid (Dorchester County, F. W. Perkins, 1898; 1910).—On the eastern side of Chesapeake Bay, on southern extremity of James Island, about 5 feet above high water, 33 yards west of shore, 22 yards northeast of shore, and 60 yards northwest of extreme end of point. Station marked by two 4-inch tile pipes placed one above the other, the top of the upper tile being about 6 inches below surface of ground. A pine stub with nail in center was driven inside the tiles, its top even with ground. One reference mark is nail in top of a draintile filled with and set in cement and projecting 3 inches above the ground. It is 148.83 meters (488.3 feet) from station, in azimuth 170° 24′. Another reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top 4 inches above surface of ground. It is 58.70 meters (192.6 feet) from station, in azimuth 170° 01′. Distances and azimuths to other points of reference are as follows: Tangent of north end of Taylor Island, ¼ mile, 18° 19′; tangent of end of woods, ⅜ mile, 134° 58′; left chimney of large house, ¼ mile, 170° 24′; chimney on near end of house on Hooper Point, 2¾ miles, 266° 07′; near peak of barn with metal roof, ¾ mile, 295° 00′; left chimney of house, ¾ mile, 298° 57′; left chimney of house, 1 mile, 310° 06′; near peak of house, 1½ miles, 338° 02′; right chimney of house, ¾ mile, 355° 54′.

Brannock (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Chesapeake Bay, between Choptank River and Little Choptank River, on the southern shore of Brannock Bay, on high land, about 8 feet above high water, 11 yards south of shore, 7 yards south of edge of bluff, 8 yards north of rail fence on far side of county road, 50 yards east of bend where road leaves shore and runs toward farmhouse and 150 yards northeast of farmhouse. Station is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of barn, ¾ mile, 50° 37′; tangent of Mills Point, ¾ mile, 109° 09′; tangent of left end of Sharps Island Hotel, 5½ miles, 117° 38′; near peak of house on Cooks Point, 3½ miles, 163° 44′; right chimney of house in trees, 2 miles, 208° 41′; between two chimneys on large part of house, 1 mile, 229° 57′; outside chimney on near end of house, 1 mile, 233° 32′; center one of three chimneys on house, 1 mile, 267° 29′; tangent of right end of barn roof, 1 mile, 276° 15′; center one of three chimneys on house, ¾ mile, 288° 42′; right peak of house, 2 miles, 329° 00′; left chimney of 1½-story house across creek, 2 miles, 336° 13′.

Robins (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Chesapeake Bay, on Hills Point, at northeast side of entrance to Little Choptank River, in a cultivated field about 8 feet above high water, 40 yards northeast by north of edge of bluff, 45 yards east by north of point of bluff, 65 yards south by east of edge of bluff in range with Sharps Island Light, and 140 yards north by west of wire fence at bluff. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of house on James Point, 3⅛ miles, 32° 59′; nail in blaze in 8-inch cedar tree, 28.22 meters (92.6 feet), 122° 21′; nail in blaze in 8-inch cedar tree, 30.90 meters (101.4 feet), 139° 08′; tangent of right side of hotel on Sharps Island, 4½ miles, 142° 28′; nail in blaze in 8-inch cedar tree, 37.11 meters (121.7 feet), 151° 32′; left chimney of house, ⅛ mile, 222° 14′; near peak of barn, ⅛ mile, 233° 03′; tallest chimney of house, ¾ mile, 237° 11′.

Veith (Dorchester County, C. C. Yates, 1910).—On the southern shore of Little Choptank River, on Hooper Point at western side of entrance to

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Slaughter Creek, on marsh about 1 foot above high water, 25 yards west of shore, 30 yards south of shore, 50 yards northwest of shore, 6 yards east of edge of the larger pond in marsh, 25 yards north of edge of smaller pond in marsh, and 125 yards east of orchard. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left chimney of house, ½ mile, 0° 51′; near chimney of house, ½ mile, 35° 45′; center of old windmill, ½ mile, 49° 10′; near chimney of house on Hooper Point, ⅛ mile, 99° 35′; near peak of barn, 3⅞ mile, 180° 28′; left chimney of house, 3⅛ miles, 210° 54′; right chimney of house, 1½ miles, 262° 34′; near peak of barn, ½ mile, 359° 50′.

Wool (Dorchester County, O. W. Ferguson, 1908; 1910).—On the southeastern shore of Little Choptank River, on Susquehanna Point, ¼ mile west of entrance to Woolford Creek, on sand and marshland about 1 foot above high water, 10 yards south of shore, 17 yards southwest of shore, and 22 yards east of shore, and about 6 meters west of a small drain running into the creek from Swampland. The center is marked by a nail in a 4-inch vitrified tile (bell end up) filled with and set in cement mortar, its top flush with surface of ground. One reference mark is a nail in a 4-inch tile filled with and set (bell end down) in cement mortar, its top projecting 3 inches above surface of ground; it is 27.12 meters (89.0 feet) from station in azimuth 58° 30′. Another reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, 24.03 meters (78.8 feet) from the station in azimuth 341° 48′. Other distances and azimuths are as follows: Near peak of large house on Hooper Point, 2½ miles, 59° 14′; right chimney of house, 2 miles, 125° 57′; left chimney of 1½-story house, 1¼ miles, 161° 59′; near peak of barn, 2⅛ miles, 192° 07′; left chimney of house, 2 miles, 203° 36′; right chimney of house, ½ mile, 341° 16′.

Hudson (Dorchester County, J. W. Donn, 1901; 1910).—On the northern shore of Little Choptank River, on Casons Point, about 1 mile north of Susquehanna Point, and 1½ miles east-northeast of Ragged Point, on a sand beach about level with high water, 2 yards south of rail fence extending along shore, and 130 yards west-northwest of end of woods at shore. It is 460 meters, northwest by west, from point at Hudson Creek, and 630 meters east-southeast from point on east side of Brook Creek. Station mark is center of 4-inch tile pipe set in cement and projecting 3 inches above surface of cement and 6 inches above surface of ground. One reference mark is a 4-inch tile set in cement and projecting 4 inches above the ground; it is 3.99 meters (13.09 feet) from the station in azimuth 172° 45′. Another reference mark is the center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 29.65 meters (97.3 feet) from station in azimuth 171° 31′. Other distances and azimuths are as follows: Near peak of barn, 3½ miles, 31° 49′; left chimney of house on Hooper Point, 3⅛ miles, 41° 20′; right chimney of house, ¼ mile, 146° 09′; near peak of barn, ½ mile, 168° 40′; near peak of house, ¾ mile, 171° 10′; left chimney of 1½-story house, 1¼ miles, 191° 43′; near peak of barn, 1⅛ miles, 209° 04′.

Mac (Dorchester County, C. C. Yates, 1910).—On the southeastern shore of Little Choptank River, on the northeast side of Tobacco Stick Bay, on the west side of McKeils Point, about 3 feet above high water, 16 yards east of edge of bank, 20 yards southeast of edge of bank, 25 yards northeast of edge of bank, and 150 yards south-southwest of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Tangent of Casons Point, 1⅛ miles, 85° 05′; center chimney of house, 2¾ miles, 99° 21′; near peak of house, 1½ miles, 108° 26′; chimney on center of house, 1⅝ miles, 112° 34′; near peak of large barn, 1⅛ miles, 136° 03′; near peak of barn, 1⅜ miles, 142° 47′; near peak of barn, 1 mile, 147° 18′; left chimney of house, 1 mile, 151° 08′; center of near side of roof of bungalow on Cherry Island, 1¾ miles, 198° 58′; right chimney of house, ⅞ mile, 238° 20′; near corner of house, ⅝ mile, 297° 47′; spire of M. P. Church at Madison, 1⅞ miles, 356° 51′.

Greenwell (Dorchester County, J. W. Donn, 1901; 1910).—On northwestern shore of Little Choptank River, on point of land at north side of entrance to

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cove between Butter Pot Point and Cedar Point, on a marsh point about 1 foot above high water, 5 yards north of shore, 13 yards southwest of shore, and 25 yards northwest of extreme end of point. Station mark is nail in pine stub projecting 12 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, 27.78 meters (91.1 feet) from the station in azimuth 144° 50′. Other distances and azimuths are as follows: Left peak of large house, 2 miles, 8° 45′; center of chimney of house, 1 mile, 71° 20′; near peak of barn, ⅝ mile, 135° 31′; near peak of barn, ¼ mile, 191° 42′; left chimney of house, ¼ mile, 197° 06′; center chimney of house, ¾ mile, 227° 15′; near peak of barn, 1⅜ miles, 274° 56′.

Ross (Dorchester County, C. C. Yates, 1910).—On the northwestern shore of Little Choptank River, on Cedar Point, about ¾ mile north of entrance to Fishing Creek, on a marsh point about 1 foot above high water, 25 yards southwest of shore, 30 yards west of shore, 60 yards north by west of extreme end of point, and 150 yards east by south of four pine trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left one of four pine trees standing together, 150 yards, 104° 44′; right chimney of 1½-story house, ⅛ mile, 144° 11′; left chimney of house, 1¼ miles, 163° 36′; center of roof of bungalow on Cherry Island, 1 mile, 212° 53′; chimney on near peak of house, 2¾ miles, 253° 08′; near peak of barn, 2¾ miles, 254° 34′; chimney on near end of house, ⅞ mile, 274° 52′; near peak of barn, 1⅛ miles, 302° 57′; chimney on left end of house, 2 miles, 331° 38′; a cupola, 2 miles, 332° 34′.

Town (Dorchester County, C. C. Yates, 1910).—On the southeast shore of Little Choptank River, on the northeast side of entrance to Fishing Creek, on a small marsh point on the north side of Town Point, about 1 foot above high water, 9 yards east of shore, 14 yards southwest of shore, 14 yards south-southeast of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Tangent of Casons Point, 1¾ miles, 65° 22′; near peak of barn, 2 miles, 96° 58′; near peak of large barn, 1 mile, 99° 00′; center chimney of house, 1 mile, 103° 02′; left chimney of house, ⅝ mile, 129° 21′; right chimney of house, 1⅛ miles, 147° 26′; center chimney of house, 1⅝ miles 170° 48′; center of near side of roof of bungalow on Cherry Island, 1 mile, 185° 12′; peak of barn showing through trees, ⅝ mile, 300° 35′.

Lee (Dorchester County, J. W. Donn, 1901; 1910).—On the north shore of upper Little Choptank River, on marsh point between the river and Beckwiths Creek, about 1 foot above high water, 5 yards northeast of shore, 25 yards south of shore, 60 yards east-southeast of extreme end of point, and 175 yards west-northwest of pine woods at shore. Station mark is nail in 3-inch pine stub with top flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 11.51 meters (37.8 feet) from station in azimuth 184° 54′. Other distances and azimuths are as follows: Tangent of McKeils Point, 1¼ miles, 25° 52′; near peak of barn, ⅝ mile, 75° 10′; left chimney of house, 1¾ miles, 147° 38′; center of roof of bungalow on Cherry Island, ⅜ mile, 178° 36′; right chimney of house, ⅞ mile, 207° 54′; near peak of barn, 2¼ miles, 260° 40′; near peak of barn, 1⅛ miles, 279° 39′.

David (Dorchester County, J. W. Donn, 1901; 1910).—On the southern shore of upper Little Choptank River, about ⅝ mile northeast of Town Point and ⅜ mile southeast of Lee Point, on a marsh point about level with high water, 3 yards west of shore, 3 yards east of shore, 3 yards south of extreme end of point, and 100 yards north of pine woods. Station mark is nail in 3-inch pine stub with top flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 15.24 meters (50.0 feet) from station in azimuth 357° 01′. Other distances and azimuths are as follows: Tangent of Butter Pot Point, 1¾ miles, 59° 42′; near peak of barn, 1½ miles, 80° 01′; center chimney of house, 1⅜ miles, 82° 10′; near peak of barn, 1 mile, 97° 21′; chimney on near end of house, 2 miles, 131° 19′; left end of barn roof, ⅝ mile, 195° 22′; near peak of barn, 2 miles, 251° 06′.

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Phil (*Dorchester County, C. C. Yates, 1910*).—*On the northwestern shore* of entrance to Beckwiths and Phillips Creeks, on point at southwest side of entrance to Phillips Creek, about ¼ mile northwest of Cherry Island, on sand and marshland about 1 foot above high water, 12 yards southwest of shore, 33 yards north of shore, 25 yards west-northwest of extreme end of point, and 40 yards from trees along edge of cultivated field. Station is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Tangent of McKeils Point, 1¾ miles, 9° 34′; near peak of barn, ¾ mile, 29° 28′; chimney on near end of house, 1¼ miles, 149° 32′; chimney on left end of house, ½ mile, 172° 13′; near peak of house, ¾ mile, 247° 12′; tangent of Town Point, 1⅛ miles, 351° 55′.

Dupont (Dorchester County, C. C. Yates, 1910).—On the western shore of Beckwiths Creek, about ⅛ mile northwest of northeast end of Cherry Island, about 1 foot above high water, in a grove of small pine trees, 17 yards west of shore, 25 yards northwest of shore, and 35 yards north of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, projecting 4 inches above surface of ground. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Center of roof of bungalow on Cherry Island, ⅜ mile, 18° 38′; chimney on near end of house, 1⅛ miles, 37° 34′; nail in blaze in 4-inch holly tree, 6.55 meters (21.49 feet), 46° 34′; near end of 1½-story house, ⅞ mile, 59° 08′; nail in blaze in 6-inch cedar tree, 12.84 meters (42.1 feet), 119° 00′; near peak of barn, 1 mile, 218° 02′; near peak of house, ¼ mile, 255° 19′; between two chimneys on house, ½ mile, 307° 38′; nail in blaze in 6-inch pine tree, 6.60 meters (21.65 feet), 309° 52′.

Beckwith (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Beckwiths Creek, about ¼ mile northeast of the northeast end of Cherry Island, near edge of cultivated field, about 2 feet above high water, 30 yards northeast of shore, 35 yards east of shore, 35 yards southeast of shore, and about ⅛ mile south by east of small 1½-story house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney of small house on Cherry Island, ½ mile, 58° 18′; near peak of barn, 1¼ miles, 75° 31′; nail in blaze in 4-inch locust tree, 20.32 meters (66.7 feet), 146° 50′; near peak of barn, ½ mile, 151° 27′; nail in blaze in 3-inch locust tree, 19.46 meters (63.8 feet), 156° 30′; near peak of barn, ½ mile, 219° 35′; left chimney of house, ¼ mile, 354° 14′.

Solomon (Dorchester County, J. W. Donn, 1901; 1910).—On the northern shore of Little Choptank River, about 1⅜ miles northeast of Town Point, on a marsh point at west side of entrance to Solomons Cove, about on level with high water, 1 yard east of shore, 3 yards west of shore, and 5 yards north of extreme end of point. Station mark is nail in cedar stub with top flush with surface of ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 14.34 meters (47.0 feet) from station in azimuth 177° 21′. Other distances and azimuths are as follows: Near peak of barn, ½ mile, 16° 18′; chimney on near end of house, 1½ miles, 70° 35′; near chimney of house, ⅜ mile, 106° 17′; chimney of house, ¼ mile, 197° 16′; right peak of barn, 1½ miles, 274° 20′; near peak of barn, ½ mile, 326° 49′.

Layton (Dorchester County, J. W. Donn, 1901; 1910).—On the southeast shore of Little Choptank River, about ½ mile south of Solomons Cove, and 1¼ miles east-northeast of Town Point, about 1 foot above high water, 2 yards east of edge of a bank 1 foot high, 23 yards west of shore, 24 yards south-southwest of shore, 30 yards northwest of shore, 18 yards north of a graveyard, and 150 yards northeast of a house. Station mark is nail in locust stub with top flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 17.13 meters (56.2 feet) from station in azimuth 314° 58′. Other distances and azimuths are as follows: Near chimney of house, 150 yards, 47° 28′; near peak of barn, 1½ miles, 86° 55′; right chimney of house, 1⅝ miles, 104° 11′; chimney on center of house, ⅞ mile, 182° 53′; nail in blaze in 8-inch cedar tree,

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3.85 meters (12.63 feet), 209° 30′; chimney on near end of small house, 1¼ miles, 245° 26′; nail in blaze in 6-inch cedar tree, 6.49 meters (21.29 feet), 268° 27′; near chimney of house, ¼ mile, 273° 25′.

Adam (Dorchester County, J. W. Donn, 1901; 1910).—On the southeastern shore of the upper part of Little Choptank River, about ⅛ mile west of entrance to Smiths Cove, on marsh point about level with high water, 3 yards south of shore, 3 yards southwest of shore, and 6 yards east of shore. Station mark is nail in cedar stub projecting 5 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 27.50 meters (90.2 feet) from station in azimuth 326° 29′. Other distances and azimuths are as follows: Near peak of barn, ¼ mile, 45° 40′; near chimney of house, ¼ mile, 52° 20′; near peak of barn, 2 miles, 85° 09′; chimney on 1½-story house, 1⅛ miles, 202° 14′; chimney on right end of house, 1½ miles, 212° 54′; near peak of large house, 1 mile, 220° 54′; chimney on near end of small house, 1 mile, 243° 40′; near peak of barn, 1 mile, 248° 11′; near peak of barn, 1 mile, 251° 02′.

Seth (Dorchester County, J. W. Donn, 1901; 1910).—On the northern shore of the upper part of Little Choptank River, opposite the entrance to Smiths Cove and about ½ mile east of Solomons Cove, on a marsh point about level with high water, 3 yards northwest of shore, 5 yards northeast of shore, and 100 yards west-southwest of extreme end of point. Station mark is nail in cedar stub flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 24.90 meters (81.7 feet) from station in azimuth 153° 54′. Other distances and azimuths are as follows: Near peak of barn, ½ mile, 33° 15′; middle chimney of house, ½ mile, 35° 56′; chimney on center of house, ¾ mile, 53° 11′; chimney on near end of house, 2½ miles, 76° 02′; chimney on left end of house, ¾ mile, 202° 41′; chimney on right end of house, 1¼ miles, 215° 17′; near peak of large house, ¾ mile, 229° 21′; chimney on near end of small house, ½ mile, 257° 54′; right chimney of house, ⅝ mile, 285° 01′; right peak of barn, 1 mile, 342° 44′.

Cain (Dorchester County, J. W. Donn, 1901; 1908).—On the south side of Little Choptank River, on point just to east of Smiths Cove, 12 meters (39 feet) from a triangle on a cedar tree bearing N. N. E. Station mark is center of cedar stub.

Abel (Dorchester County, J. W. Donn, 1901; 1908).—On the southeast side of upper part of Little Choptank River, on point at east side of entrance to first creek east of Smiths Cove; 16 meters northwest of a marked cedar, and 9 meters north of white stake. Station mark is nail in cedar stub.

Noah (Dorchester County, J. W. Donn, 1901; 1903).—On the west side of the upper part of Little Choptank River, on Marshy point at north side of second cove above Solomons Cove, 12 meters south of one white stake and 12 meters east of another. Station mark is nail in cedar stub.

Van Duyne (Dorchester County, J. W. Donn, 1901; 1903).—On the east side of the upper part of Little Choptank River, opposite Van Duyne's house, on marshy point of lawn. Station stands 10 meters (33 feet) north of a white stake, and 29.1 meters (95.5 feet) west-southwest of a large cedar tree. Center mark is a cedar stub.

Isaac (Dorchester County, J. W. Donn, 1901; 1903).—On the east side of the upper part of Little Choptank River, on point opposite entrance to Carey Creek, 4.25 meters (13.94 feet) east-southeast from marked corner of fence and 18.6 meters (61.0 feet) southwest from tall marked fence post. Center marked by a locust stub.

Lot (Dorchester County, J. W. Donn, 1901; 1903).—On the west side of the upper part of Little Choptank River (Gaines Creek), on the marshy point east of entrance to Carey Creek, 12.13 meters (39.8 feet) east of marked cedar tree and 16.27 meters (53.4 feet) south of another marked cedar tree. Center marked by a locust stub.

Yellow (Dorchester County, J. W. Donn, 1901; 1903).—On the north side of the upper part of Little Choptank River (Gaines Creek or Lees Creek), on east side of cove, near yellow house, 9.4 meters (31 feet) north of fence corner and 4.95 meters (16.2 feet) northwest of third fence post. Center marked by a locust stub.

Radcliffe (Dorchester County, J. W. Donn, 1901; 1903).—On the south side of the upper part of Little Choptank River (Lees Creek or Gaines Creek), about

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½ mile east of mouth of Carey Creek, on point at east side of a small cove. Station is on a stony beach, 6.86 meters (22.51 feet) northwest of large hardwood tree and 7.65 meters (25.1 feet) north of wild cherry tree. Center marked by a locust stub.

Madison spire (Dorchester County, J. W. Donn, 1901; 1910).—On the southern shore of Little Choptank River, in the town of Madison, at the head of Tobacco Stick Bay, on structure known as Southern M. E. Church. Station is center of spire, which is (in 1910) the tallest of three spires in the town.

HUDSON CREEK

Louise (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Hudson Creek, about ½ mile north of Casons Point, on sand and marsh point at south side of entrance to Back Creek, about 1 foot above high water, 18 yards north-northeast of shore, 22 yards southeast of shore, 30 yards northwest of shore, and 30 yards east-northeast of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Tangent of Casons Point, ½ mile, 9° 09′; center chimney of house, ½ mile, 64° 20′; left end of house, ½ mile, 90° 16′; chimney in center of house, ½ mile, 107° 18′; near peak of barn, ⅝ mile, 127° 25′; near peak of barn, ½ mile, 215° 23′; right chimney of house, ⅝ mile, 237° 11′; right chimney of house, 2 miles, 273° 34′; chimney of house, 1½ miles, 295° 42′.

Jenifer (Dorchester County, C. C. Yates, 1910).—On the western shore of Hudson Creek, about ⅜ mile northwest of entrance to Back Creek and ¾ mile north of Casons Point, on edge of cultivated field, about 2 feet above high water, 8 yards northeast of shore, 9 yards southwest of shore, 55 yards north by west of extreme end of marsh point, and 65 yards southeast of corner of wire fence about in line with barn. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney on near end of house, ½ mile, 8° 22′; near peak of house, ¼ mile, 44° 26′; lightning rod on house, 225 yards, 95° 51′; near peak of barn, ⅛ mile, 122° 54′; tangent of left end of Ross's wharf, 1 mile, 187° 49′; near peak of barn, 1 mile, 199° 18′; chimney on left end of house, ½ mile, 211° 24′; near peak of barn, ⅝ mile, 243° 27′; chimney on near end of house, 1 mile, 264° 42′; chimney on near end of house, 2 miles, 298° 53′; tangent of Casons Point, ¾ mile, 338° 52′.

Carrie (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Hudson Creek, on north side of entrance to Back Creek, and about ¾ mile north of Casons Point, near edge of cultivated field, about 4 feet above high water, 15 yards east of shore, 3 yards east of edge of bank, and 160 yards north of point at north side of entrance to Back Creek. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left chimney of house, ⅜ mile, 45° 23′; chimney in center of house, ⅜ mile, 73° 00′; lightning rod on right end of house, ⅜ mile, 97° 35′; left dormer window of house, ½ mile, 145° 35′; left chimney of house, 1¼ miles, 162° 31′; nail in blaze in 10-inch cedar tree, 9.35 meters (30.68 feet), 167° 55′; near peak of barn, ½ mile, 201° 02′; near end of house, 1¼ miles, 256° 13′; near peak of barn, 2 miles, 277° 21′.

Bayly (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Hudson Creek, about ⅜ mile north of entrance to Back Creek, and 1 mile north of Casons Point, on marsh land about level with high water, 11 yards east of shore, 20 yards south of shore, 22 yards northeast of shore, 8 yards west of a bank 3 feet high, and 15 yards southwest of a large dead cherry tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe buried with top 2 inches below base of monument. Distances and azimuths to various points of reference are as follows: Near peak of house, ⅜ mile, 65° 04′; left peak of barn, ⅝ mile, 79° 43′; right chimney of house, ⅜ mile, 129° 02′; left chimney of house, 1⅛ miles, 158° 59′; left chimney of house, 172° 47′; left chimney of house, ¼ mile, 185° 12′; nail in blaze in 4-inch cherry tree, 8.19 meters (26.87 feet), 228° 01′; near peak of small house, ⅜ mile, 249° 02′.

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Henry (Dorchester County, C. C. Yates, 1910).—On the western shore of Hudson Creek, at south side of entrance to cove about 1 mile north of Casons Point, about 2 feet above high water, 5 yards south of shore, 5 yards northwest of shore, 10 yards west of extreme end of point, and 34 yards north of wire fence at shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney on right end of house, ⅛ mile, 32° 28′; chimney on left end of house, ¼ mile, 163° 35′; tangent to left end of Ross's wharf, ⅞ mile, 188° 36′; chimney in center of small house, ⅞ mile, 200° 31′; chimney on left end of house, ⅜ mile, 224° 12′; near peak of barn, ⅞ mile, 239° 37′; chimney on near end of house, ⅝ mile, 279° 52′.

Mitchell (Dorchester County, C. C. Yates, 1910).—On the western shore of Hudson Creek, about ⅝ mile north-northwest of entrance to Back Creek, and 1¼ miles north of Casons Point, in a small grove of oak trees, about 2 feet above high water, 11 yards southwest of shore, 12 yards north of shore, and 20 yards west of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of house, ⅜ mile, 13° 00′; near peak of barn, ⅜ mile, 24° 14′; nail in blaze in 18-inch oak tree 8.72 meters (28.61 feet), 69° 18′; nail in blaze in 16-inch oak tree 14.95 meters (49.0 feet), 85° 42′; chimney on left end of house, ¾ mile, 167° 08′; nail in blaze in 12-inch oak tree, 10.93 meters (35.9 feet), 172° 03′; near peak of barn, ⅝ mile, 211° 54′; chimney on near end of house, ¼ mile, 274° 00′; chimney of small house, ⅝ mile, 286° 00′; chimney on right end of house, ⅜ mile, 292° 27′; chimney on right end of house, ⅜ mile, 304° 23′.

Back (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Hudson Creek, about ⅝ mile north of entrance to Back Creek and 1⅜ miles north of Casons Point, on solid ground at edge of woods, about 2 feet above high water, 14 yards east of shore, 16 yards northeast of shore, 45 yards south-southeast of shore, and 175 yards north-northwest of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near chimney of house, ¾ mile, 28° 04′; near peak of house, ⅝ mile, 31° 40′; near peak of barn, ½ mile, 41° 13′; chimney on near end of house, ⅜ mile, 70° 25′; left chimney of house, ¾ mile, 150° 04′; nail in blaze in 12-inch pine tree, 8.05 meters (26.41 feet), 173° 22′; nail in blaze in 12-inch pine tree, 11.19 meters (36.7 feet), 224° 35′; nail in blaze in 12-inch pine tree, 16.04 meters (52.6 feet), 303° 33′; right chimney of house, 175 yards, 339° 13′.

FISHING CREEK

Thornapple (Dorchester County, J. W. Donn, 1901; 1903).—On southeast side of Little Choptank River, on Town Point, at north side of entrance to Fishing Creek, 5 meters from bank, amid salt water bushes. Marked by a locust stub, around which are piled fragments of bricks. Two reference marks composed of whitewashed planks were placed as follows: 15 meters west of and 12 meters south of the signal.

West Fishing Creek (Dorchester County, J. W. Donn, 1901; 1903).—On the west side of Fishing Creek, on first prominent point inside its mouth, on marsh near end of point. Marked by a locust stub, and two witness marks composed of planks set back in the marsh and 9.67 meters (31.73 feet) northeast and 10.1 meters (33 feet) southeast of the signal, respectively.

Brooks (Dorchester County, J. W. Donn, 1901; 1903.—On west side of Fishing Creek, near center of first large bend inside of entrance, on a small marshy point near high-water line. Marked by a cedar stub. A blazed cedar stands 25 meters (82 feet) west of the station.

Laney (Dorchester County, C. C. Yates, 1910).—On the south shore of Little Choptank River, on southwestern side of entrance to Fishing Creek, on northeast end of McKiels Point, on a marsh point 35 yards southeast of shore, 50 yards northwest of shore, and 35 yards south-southwest of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Dis-

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tances and azimuths to various points of reference are as follows: Chimney of house, 2 miles, 111° 58′; near peak of barn, 1 mile, 131° 31′; left chimney of house, 1⅛ miles, 160° 56′; center of roof of bungalow on Cherry Island, 1⅝ miles, 189° 31′; near peak of barn, ⅝ mile 229° 45′; right chimney of house, 1¾ miles, 308° 11′; cupola on barn, 1⅛ miles, 324° 58′; near chimney of house, ¼ mile, 350° 21′.

Swep (Dorchester County, C. C. Yates, 1910).—On the northeastern shore of Fishing Creek, about ¾ mile east-northeast of McKeils Point and ¾ mile east-southeast of Town Point, on firm land about 1 foot above high water, 9 yards northeast of shore, 10 yards northwest of shore, 7 yards north of extreme end of point, and 30 yards southwest by south of near corner of dairy. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Chimney on right end of house, ⅞ mile, 33° 28′; tangent to McKeils Point, ¾ mile, 66° 41′; center chimney of house, 1¼ miles, 107° 51′; tangent of Town Point, ¼ mile, 108° 00′; near corner of dairy, 30 yards, 205° 58′; nail in 10-inch apple tree, 13.14 meters (43.1 feet), 213° 34′; near peak of house, ¼ mile, 293° 35′; near chimney of house, 1⅛ miles, 354° 03′.

Hugh (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Fishing Creek, about ¾ mile southeast of Town Point, and ¾ mile northwest of Windmill Point, on high marsh about 2 feet above high water, 12 yards northeast of shore, 13 yards southeast of shore, and 17 yards east of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile, note 17. Distances and azimuths to various points of reference are as follows: Near peak of barn, ⅝ mile, 72° 19′; near chimney of house, ½ mile, 74° 25′; tangent of McKeils Point, ½ mile, 104° 37′; near peak of barn, 2½ miles, 111° 08′; near peak of barn, 1⅝ miles, 121° 43′; left chimney of house, 1⅝ miles, 124° 16′; middle chimney of house, 1½ miles, 141° 37′; left chimney of house, ½ mile, 171° 56′; nail in blaze in twin dead cedar tree, 13.64 meters (44.8 feet), 187° 53′.

Eleanor (Dorchester County, C. C. Yates, 1910).—On the southwestern shore of Fishing Creek, about ⅝ mile south-southeast of McKeils Point, and 1 mile south of Town Point, on sandy land at edge of woods, about 10 yards southwest by south of shore, 15 yards west-northwest of shore, 28 yards west-southwest of extreme end of small marsh point, and 70 yards west-northwest of shore end of fence extending into water at a marsh point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 10-inch cedar tree, 17.95 meters (58.9 feet), 7° 09′; nail in blaze in 10-inch cedar tree, 6.70 meters (21.98 feet), 93° 50′; nail in blaze in 6-inch cedar tree, 8.40 meters (27.56 feet), 120° 30′; near peak of house, ¼ mile, 160° 58′; middle dormer window of house, 1 mile, 200° 03′; near peak of barn, 1 mile, 203° 19′; left chimney of house, 1 mile, 214° 24′; right chimney of house, ⅞ mile, 251° 03′; right end of barn roof, 1 mile, 259° 44′.

Doctor (Dorchester County, C. C. Yates, 1910).—On the western shore of Fishing Creek, on a prominent point about 1 mile southeast of Little Choptank River, on sand and marshland about 1 foot above high water, 30 yards southwest of shore, 30 yards northwest of shore, and 25 yards west of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile, note 17. Distances and azimuths to various points of reference are as follows: Cupola on Brooks workshop, ⅜ mile, 2° 37′; tangent of McKeils Point, ⅞ mile, 131° 47′; middle dormer window of house, 2 miles, 133° 20′; near peak of barn, 2 miles, 149° 48′; left chimney of house, ⅜ mile, 210° 36′; right chimney of house, ½ mile, 230° 17′; near peak of barn, 1 mile, 292° 47′; left chimney of house, 1 mile, 308° 12′; right chimney of house, ⅜ mile, 351° 09′; weather vane on barn cupola, ⅜ mile, 356° 18′.

Etta (Dorchester County, C. C. Yates, 1910).—On the northeastern shore of Fishing Creek, at east side of entrance to small creek about ¼ mile north of Windmill Point, on marsh, about 1 foot above high water, 8 yards east of shore, 9 yards northeast of shore, 11 yards southeast of shore, and 100 yards west of barn. Station mark is center of standard cement monument of the

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Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Cupola on Brooks barn, ¾ mile, 27° 01′; center of cupola on Brooks workshop, ¾ mile, 30° 07′; right chimney of house, ⅝ mile, 45° 35′; left peak of house, 1 mile, 95° 21′; chimney on near end of house, ⅛ mile, 132° 26′; near peak of house, ⅛ mile, 142° 33′; near peak of large part of house, ⅛ mile, 215° 56′; peak of barn, 100 yards, 257° 09′.

Mary (Dorchester County, C. C. Yates, 1910).—On the northeastern shore of Fishing Creek, on Windmill Point, about 1½ miles southeast of where Fishing Creek enters the Little Choptank River, on a marsh point about 1 foot above high water, 11 yards northwest of shore, 17 yards southeast of shore, and 18 yards east of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Right chimney of house, ½ mile, 14° 28′; left chimney of Brooks's house, ⅝ mile, 39° 47′; cupola on Brooks's workshop, ⅝ mile, 46° 49′; right chimney of house, ½ mile, 70° 34′; cedar stub marking triangulation station *Windmill Point* (*1901–10*), 12.60 meters (41.3 feet), 82° 22′; near peak of barn, 2¼ miles, 126° 00′; near peak of house, ⅝ mile, 297° 32′; right chimney of house, 1⅛ miles, 304° 10′; right chimney of house, ⅝ mile, 321° 17′.

Tom (Dorchester County, C. C. Yates, 1910).—On the southwestern shore of Fishing Creek, on point of land between two coves, about ¼ mile south of Windmill Point, and 1½ miles southeast of Little Choptank River, on a marsh point about 1 foot above high water, 9 yards southwest of end of point, and 10 yards southeast of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile, note 17. Distances and azimuths to various points of reference are as follows: Center of cupola on barn, ⅛ mile, 17° 54′; left chimney of house, 125 yards, 29° 33′; cupola on Brooks's barn, ¼ mile, 82° 41′; center of cupola on Brooks's workshop, ¼ mile, 84° 18′; left chimney of house, ⅜ mile, 109° 03′; near peak of barn, 2¾ miles, 147° 46′; chimney on middle of house, ⅝ mile, 234° 05′; chimney on left end of large house, ¾ mile, 243° 15′; chimney on near end of house, 1⅛ miles, 251° 20′; center lightning rod on large house, ⅝ mile, 270° 06′; near chimney of house, ½ mile, 294° 58′.

Brooks (Dorchester County, C. C. Yates, 1910).—On the southwestern shore of Fishing Creek, near Brooks's shipyard and about ½ mile southwest of Windmill Point, on marsh, about 8 yards south of shore, 11 yards southeast of shore, 15 yards northeast of shore, and 50 yards north by west of northeast end of large workshop. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Cupola on workshop, 45 yards, 4° 39′; chimney on near end of house, ⅛ mile, 150° 28′; near peak of barn, ¾ mile, 209° 02′; cupola on center of large barn, 1 mile, 248° 57′; left chimney of large house, 1 mile, 251° 03′; near peak of house, 2 miles, 260° 06′; lightning rod on near end of house, 1 mile, 269° 38′; chimney on near end of house, 100 yards, 285° 59′; weather vane on barn cupola, 75 yards, 309° 48′.

Austin (Dorchester County, C. C. Yates, 1910).—On the southern shore of Fishing Creek, on a point about ⅝ mile east-southeast of Windmill Point, at edge of young orchard, about 3 feet above high water, 18 yards south of shore, 35 yards southwest of shore, 2 yards southwest of edge of bank next to marsh, 10 yards east of edge of bank, and 75 yards north-northwest of near corner of two-story house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of house, ¾ mile, 73° 23′; cupola on Brooks's barn, ⅞ mile, 85° 06′; center of cupola on Brooks's workshop, ⅞ mile, 85° 35′; left chimney of house, 1 mile, 95° 55′; left chimney of house, ¼ mile, 194° 27′; chimney on left end of house, ½ mile, 235° 28′; near peak of 1½-story house 1⅛ miles, 245° 12′; near peak of house, 1 mile, 258° 38′; nail in blaze in 10-inch persimmon tree, 4.86 meters (15.94 feet), 299° 32′; near corner of house, 75 yards, 323° 53′.

Neil (Dorchester County, J. W. Donn, 1901; 1910).—On the northern shore of Fishing Creek, on the third marshy point from and about ⅝ mile east of Windmill Point, about 1 foot above high water, 3 yards north of shore, 5

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yards northeast of shore, 5 yards northwest of shore, 70 yards south-southeast of gate to yard of farmhouse, and 115 yards south of farmhouse. Station mark is nail in cedar stub flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 26.10 meters (85.6 feet) from station, in azimuth 186° 10′. Other distances and azimuths are as follows: Lightning rod on right end of house, ¼ mile, 16° 50′; near peak of house, ⅞ mile, 61° 03′; cupola on Brooks's barn, 1 mile, 73° 10′; center of Brooks's workshop cupola, 1 mile, 74° 00′; chimney of house, ¼ mile, 110° 27′; near chimney of house, 110 yards, 162° 32′; cupola on barn, 140 yards, 175° 27′; near chimney of house, ⅜ mile, 255° 17′; near peak of house, 1 mile, 269° 13′.

Windmill Point (Dorchester County, J. W. Donn, 1901; 1910).—On the northeastern shore of Fishing Creek. This station is marked by a cedar stub, which was recovered in 1910 and referred directly to station *Mary*, from which it is distant 12.60 meters (41.3 feet), in azimuth 82° 22′.

Jones (Dorchester County, J. W. Donn, 1901).—On the south side of Fishing Creek, opposite Windmill Point, in asparagus patch northwest of Jones's house and east of Brooks's shipyard, 10 meters from high water. Station marked by cedar stub. Reference stubs are 31.45 meters (103.2 feet) to the west on bank of cove and 8.3 meters (27.2 feet) north in edge of pear orchard. The present existence of this station is very doubtful.

Deepwater (Dorchester County, J. W. Donn, 1901; 1903).—On the south side of Fishing Creek, on bank at edge of asparagus bed, on land belonging to Captain Woolford, about 100 meters west of old wharf, 47.55 meters (156.0 feet) west from large cherry tree in house yard and 37.22 meters (122.1 feet) SW. ½ W. from persimmon tree on edge of marsh. Station marked by a cedar stub.

Orchard (Dorchester County, J. W. Donn, 1901; 1903).—On the south side of Fishing Creek, in bend above Woolford's old wharf, near edge of bank, in orchard. Station marked by cedar stub. Reference marks are two plank stubs 12 meters east and 12 meters south from station.

Kirby (Dorchester County, J. W. Donn, 1901; 1910).—On the northern side of Fishing Creek, opposite the entrance to Church Creek, about 1 mile east of Windmill Point, on solid land about 1 foot above high water, 5 yards north of shore, 6 yards northeast of shore, 10 yards east of shore, 45 yards southwest of wire fence, and 125 yards south of a small house. Station mark is nail in stub flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, 19.99 meters (65.6 feet) from station, in azimuth 185° 25′. Other distances and azimuths are as follows: Right chimney of house, ⅝ mile, 6° 35′; left chimney of house, ¾ mile 52° 55′; center lightning rod on house, ½ mile, 57° 51′; cupola on Brooks's barn, 1⅜ miles, 76° 28′; left chimney of large house, ⅝ mile, 94° 32′; cupola on barn, ⅝ mile, 102° 23′; near peak of house, 125 yards, 154° 53′; right chimney of house, ¼ mile, 164° 25′; near peak of house, ½ mile, 247° 45′; two chimneys of house nearly in range, ¾ mile, 271° 34′.

Church Creek 1, east (Dorchester County, J. W. Donn, 1901; 1903).—In the southeast corner of a field at the junction of Fishing and Church Creeks, on a low bank near north end of orchard and separated from it by a fence lined with cedar and other trees, 8.6 meters (28 feet) from fence. Station mark is a cedar stub. A plank stub was placed at high water line, 6 meters (20 feet) west of station.

Church Creek 1, west (Dorchester County, J. W. Donn, 1901; 1910).—On the western shore of Church Creek, about 3/8 mile south of Fishing Creek, near edge of cultivated land, about 2 feet above high water, 3 yards south of shore, 20 yards northwest of shore, and 30 yards east of extreme end of point. Station mark is nail in stub projecting 2 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 14.60 meters (47.9 feet) from station in azimuth 4° 48′. Other distances and azimuths are as follows: Chimney on near end of house, 200 yards, 46° 55′; chimney on left end of house, ½ mile, 118° 39′; right chimney of large house, ¾ mile, 145° 28′; chimney on left end of 1½-story house, ⅝ mile, 175° 01′; near peak of left one of two barns, 1 mile, 205° 12′; near peak of barn, 1 mile, 220° 06′; chimney of 1½-story house, ½ mile, 309° 58′.

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Paul (Dorchester County, J. W. Donn, 1901; 1910).—On the northern shore of Fishing Creek, about 1⅛ miles northeast of Deep Water Point, near edge of garden, about 1 foot above high water, 8 yards north of shore, 10 yards west of shore, 13 yards northeast of shore, and 40 yards southeast of 1½-story house. Station mark is nail in locust stub flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 8.53 meters (27.99 feet) from station in azimuth 151° 07′. Other distances and azimuths are as follows: Near peak of barn, 1⅛ miles, 38° 27′; left chimney of house 1⅜ miles, 59° 50′; near peak of house, 1¾ miles, 69° 07′; cupola on Brooks barn, 2 miles, 74° 46′; cupola on barn, 1½ miles, 84° 09′; near corner of house, 40 yards, 124° 21′; near chimney of house, ½ mile, 245° 23′; near peak of barn, 1½ miles, 267° 30′; right chimney of house, ½ mile, 319° 47′; near peak of barn, ½ mile, 334° 45′.

Jackson (Dorchester County, J. W. Donn, 1901; 1908).—On the south side of Fishing Creek, northwest from the first farm house above the mouth of Church Creek. Station is on a bank, near shore, 19 meters (62 feet) west by south from fence running from barns to shore, and 11.4 meters (37.4 feet) south by west from large cherry tree in corner of pasture field. Center marked with locust stub.

Peach (Dorchester County, J. W. Donn, 1901; 1903).—On the south side of Fishing Creek, on first prominent point above station *Jackson* (see above), and in the edge of a peach orchard. It is 10.5 meters (34.4 feet) from a plank stub near a peach tree, and 3.9 meters (12.8 feet southeast of a small cedar on end of point. Marked by a stub.

Chimney (Dorchester County, J. W. Donn, 1901; 1908).—On the north side of Fishing Creek, near the shore and a little above high water, southeast from chimney of a burnt house, southeast by east from locust tree marked with triangle, and 4.15 meters (13.62 feet) from plank stub on shore. Station marked by a locust stub.

Hedge (Dorchester County, J. W. Donn, 1901).—On the north side of Fishing Creek, nearly opposite signal *Walnut* (see below), on hard marshland, 16 meters east-southeast from line of thorn hedge and 5.6 meters (18.4 feet) from plank stub in marsh. Center marked by locust stub.

Walnut (Dorchester County, J. W. Donn, 1901; 1903).—On the south side of Fishing Creek, in yard of a lead-colored house, the second above Church Creek, near high-water mark, 21.15 meters (69.4 feet) northeast from large walnut tree in yard and 5.65 meters (18.54 feet) north from mulberry tree on end of point. Center marked by locust stub.

Bluff (Dorchester County, J. W. Donn, 1901; 1908).—On the south side of Fishing Creek, on point at junction of main branches of creek, on a low bluff at end of peach orchard, 9.5 meters (31 feet) from end peach tree on outside row, and 8.4 meters (27.6 feet) north by east from stub on bank. Center marked with locust stub.

CHURCH CREEK

Church Creek 2, east (Dorchester County, J. W. Donn, 1901; 1908).—On the eastern shore of Church Creek, about ¾ mile below its junction with Fishing Creek, on a marshy point, a short distance west of small farmhouse, 10 meters (32.8 feet) north-northwest from a plank stub, and 9.5 meters (31.2 feet) from small cherry tree in corner of yard. Center marked by a stub.

Church Creek 3, east (Dorchester County, J. W. Donn, 1901; 1903).—On the eastern shore of Church Creek, about 1 mile south of its confluence with Fishing Creek, on south point of cove, 3 meters from edge of low sod bank, 14.6 meters (47.9 feet) west-northwest from small blazed white oak tree, and 19.2 meters (63 feet) north by west from a cedar marked with a triangle. Center probably marked with stub.

Church Creek 3, west (Dorchester County, J. W. Donn, 1901; 1908).—On west side of Church Creek, on end of wooded point at north side of deep bight 1¼ miles south of Fishing Creek, on low ground in midst of cedars and salt-water bushes, 6.6 meters (21.6 feet) southeast from blazed pine and 12.2 meters (40 feet) north-northeast from a blazed cedar. Center marked by locust stub.

Church Creek 4, east (Dorchester County, J. W. Donn, 1901; 1908).—On eastern shore of Church Creek, about 1¼ miles from its confluence with Fish-

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ing Creek, on marshy point opposite deep bight in western shore, 1.5 meters (4.9 feet) from shore, which is low and subject to overflow at high water. It is 7.3 meters (24 feet) west-northwest from stub on edge of marsh. Center marked with locust stub.

Church Creek 4, west (Dorchester County, J. W. Donn, 1901; 1908).—On the western shore of Church Creek, on second small point below Milton wharf, near high-water line in salt-water bushes, 13.1 meters (43 feet) south-southeast from largest of the two cedars on end of point. Center marked with locust stub.

SLAUGHTER CREEK

Poverty (Dorchester County, J. W. Donn, 1901; 1908).—On southeast shore of Little Choptank River, on point at east of mouth of Parsons Creek. Marked by a cedar stub, which in 1908 was on edge of caving bank. Station *Pov* established near by in 1908.

Parsons (Dorchester County, J. W. Donn, 1901).—On east side of Slaughter Creek, on first point southwest of Parsons Creek entrance, on a sandy beach fronting a hard marsh nearly south of McManus's house. Marked by a cedar stub.

McManus (Dorchester County, J. W. Donn, 1901).—On eastern side of Slaughter Creek, on second marshy point southwest of Parsons Creek and southwest of McManus's house. Marked by a cedar stub.

Bosley (Dorchester County, J. W. Donn, 1901).—On west side of Slaughter Creek, about opposite station *McManus*, and east-northeast of Bosley's house. Marked by a cedar stub.

Vickers (Dorchester County, J. W. Donn, 1901).—On east side of Slaughter Creek, on marshy bend inshore southwest of Vickers's house. Marked by a cedar stub.

Stapleford (Dorchester County, J. W. Donn, 1901; 1908).—On west side of Slaughter Creek, about ⅛ mile north of bridge, on marshy point at southwest side of mouth of cove which comes out of marsh from north. Marked by a cedar stub.

East End (Dorchester County, J. W. Donn, 1901; 1908).—On east side of Slaughter Creek, south of east end of Taylor Island Bridge, on marshy point 50 meters from the south line of bridge at high-water mark. Marked by a cedar stub.

No. 2, east (Dorchester County, J. W. Donn, 1901; 1908).—On a marshy point, on east side of Slaughter Creek, south of Taylor Island Bridge. Marked by a cedar stub.

No. 3, west (Dorchester County, J. W. Donn, 1901; 1908).—On a marshy point, on west side of Slaughter Creek, south of Taylor Island Bridge. Marked by a cedar stub.

Pov (Dorchester County, O. W. Ferguson, 1908; 1910).—On the southern shore of Little Choptank River, about 1¼ miles east of Hooper Point, and about ¼ mile north of entrance to Parsons Creek, on extreme end of marsh point, about 1 foot above high water, 4 yards south of shore, 4 yards southeast of shore, and 8 yards southwest of shore. Station mark is center of 4-inch tile projecting 12 inches above surface of ground. Reference marks are as follows: Center of tile pipe, set in cement, 64.66 meters (212.1 feet) from station, in azimuth 294° 43′; center of standard cement monument of Maryland Shell Fish Survey, note 16, set 31.15 meters (102.2 feet) from station in azimuth 336° 20′. Other distances and azimuths are as follows: Near peak of large house, 1½ miles, 85° 51′; near peak of house, 4 miles, 97° 52′; chimney of house, 4 miles, 102° 48′; chimney on left end of house, 2¾ miles, 167° 21′; left side of 1½-story house, 2⅜ miles, 191° 12′; chimney on near peak of house, ⅜ mile, 259° 42′; chimney on right end of same house, ⅜ mile, 260° 53′; right chimney of house, ¼ mile, 294° 14′; near peak of barn, ¼ mile, 299° 54′.

Torrey (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Slaughter Creek, about 1 mile southeast of Hooper Point, and ½ mile southwest of entrance to Parsons Creek, on hard marsh land about 1 foot above high water, 90 yards east-northeast of shore, 250 yards south of shore, 50 yards west of young pine thicket, and near several small pine trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile, note 17. Distances and azimuths to various points of reference are as follows: Peak of barn, 1 mile, 22° 32′; cupola on

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barn, 1⅝ miles, 31° 44′; right chimney of house, 1⅝ miles, 44° 55′; left chimney of house, ¾ mile, 69° 39′; right end of barn, ⅝ mile, 101° 14′; left chimney of house, ⅝ mile, 104° 31′; center of old windmill, 1 mile, 119° 21′; left chimney of house on Hooper Point, 1 mile, 132° 05′; nail in blaze in 5-inch pine tree, 9.60 meters (31.50 feet), 287° 32′; nail in blaze in 6-inch pine tree, 11.86 meters (38.9 feet), 309° 15′; nail in blaze in 4-inch pine tree, 17.90 meters (58.7 feet), 314° 13′.

Moore (Dorchester County, C. C. Yates, 1910).—On the western shore of Slaughter Creek, about ⅝ mile south of Hooper Point and ⅞ mile west-southwest of entrance to Parsons Creek, on sand and shell land near edge of marsh, about 1 foot above high water, 11 yards west of shore, 25 yards north of shore, 130 yards south of shore, 140 yards east of near corner of large barn, and 200 yards west-southwest of end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile, note 17. Distances and azimuths to various points of reference are as follows: Left chimney of house, ¾ mile, 00° 04′; center of draw of Slaughter Creek Bridge, 1⅞ miles, 16° 25′; near corner of large barn, 140 yards, 86° 03′; left edge of house, ⅛ mile, 107° 34′; near peak of barn, ⅝ mile, 144° 06′; right chimney of house on Hooper Point, ⅝ mile, 153° 40′; right chimney of house, 1½ miles, 239° 02′; near peak of barn, 1½ miles, 245° 18′; near peak of barn, ¾ mile, 319° 41′; left chimney of house, ⅞ mile, 338° 49′.

Maryland (Dorchester County, C. C. Yates, 1910).—On the eastern side of Slaughter Creek, about 1¼ miles northeast of Slaughter Creek Bridge, and ¼ mile southeast of shore, in a cultivated field, about 35 yards northeast of fence between fields, 105 yards west-northwest of road from Madison to Taylor Island, 115 yards northwest of junction of fences at road, and 130 yards west-northwest of house on opposite side of road. Station is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile, note 17. Distances and azimuths to various points of reference are as follows: Near peak of barn, 1 mile, 22° 46′; near peak of canning house, 1⅛ miles, 31° 31′; spindle on cupola of barn, ¾ mile, 41° 38′; left side of barn, ¼ mile, 66° 37′; right chimney of house, ¼ mile, 80° 42′; near chimney of large house, ⅝ mile, 129° 01′; near peak of large barn, ⅞ mile, 156° 06′; left chimney of house, ½ mile, 192° 30′; chimney on near end of house, ¾ mile, 242° 14′; center of front door of house on opposite side of road, 130 yards, 299° 02′.

Whitewash (Dorchester County, C. C. Yates, 1910).—On the western shore of Slaughter Creek, about 1¼ miles north of Slaughter Creek Bridge, and 1½ miles southwest of entrance to Parsons Creek, on marshland about level with high water, about 25 yards west-northwest of shore, 50 yards north-northwest of shore, 60 yards southwest of shore, 50 yards east-southeast of wire fence, and 300 yards south of farm house. Station is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Center of canning house ventilators, 1¼ miles, 4° 34′; center of draw of Slaughter Creek Bridge, 1¼ miles, 13° 05′; near peak of large building, 1⅜ miles, 21° 03′; near peak of barn, 250 yards, 173° 25′; right chimney of house, ⅝ mile, 178° 40′; near peak of barn, ⅝ mile, 194° 32′; near chimney of house, 1⅞ miles, 231° 50′; left chimney of house, ⅝ mile, 246° 10′; near peak of barn, ¾ mile, 255° 14′; near gable of house, ⅝ mile, 296° 06′; left chimney of house, ⅜ mile, 318° 32′; cupola of barn, ¾ mile, 358° 34′.

Noblee (Dorchester County, C. C. Yates, 1910).—On the eastern side of Slaughter Creek, about ½ mile northeast of Slaughter Creek Bridge, and ½ mile inshore, in edge of cultivated field on south side of road leading from Madison to Taylor Island, about 250 yards east of shore, 3 yards south of wire fence between field and road, 85 yards west-southwest of farm boundary stone in fence corner near road, and 135 yards east-northeast of barn on same side of road as station. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of barn, ⅛ mile, 22° 15′; right chimney of house, ⅛ mile, 28° 14′; center of canning house ventilators, ⅜ mile, 34° 31′; center of draw of Slaughter Creek Bridge, ½ mile, 48° 50′; near peak of Taylor Island Wharf house, ½ mile, 51° 10′; near

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peak of store at Taylor Island, ⅞ mile, 57° 08′; near peak of barn, 135 yards, 59° 33′; nail in blaze in 4-inch cedar tree, 15.98 meters (52.4 feet), 79° 59′; near chimney of house, 250 yards, 113° 54′; spindle on barn cupola, 250 yards, 131° 48′; near chimney of house, ⅝ mile, 189° 56′; near peak of house, 1 mile, 216° 39′; middle chimney of house, ¼ mile, 329° 53′.

Harrington (Dorchester County, C. C. Yates, 1910).—On the western shore of Slaughter Creek, about ⅜ mile north of Slaughter Creek Bridge, on marsh point at south side of entrance to a creek (Chapel Cove), about on level with high water, 20 yards southwest of shore, 26 yards northwest of shore, 27 yards west of extreme end of point, and 300 yards southeast of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near gable of house nearest west end of Slaughter Creek Bridge, ½ mile, 12° 19′; taller stack of canning house at Taylor Island, ½ mile, 24° 19′; left chimney of house, 300 yards, 125° 22′; chimney on near end of house, ¾ mile, 227° 45′; spindle on cupola of barn, ⅝ mile, 263° 22′; near peak of barn, ½ mile, 283° 53′; near peak of barn, ⅝ mile, 318° 39′; near peak of old canning house, ½ mile, 327° 41′; center of draw of Slaughter Creek Bridge, ⅜ mile, 352° 48′.

Finish (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Slaughter Creek, about ⅜ mile southeast of Slaughter Creek Bridge, in corner of cultivated field, about 50 yards east of shore, 12 yards east of wire fence between field and marsh, 14 yards north of wire fence between field and woods, and 17 yards northeast of fence corner. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 8-inch pine tree, 19.55 meters (64.1 feet), 21° 57′; taller stack of canning house at Taylor Island, ½ mile, 108° 28′; near peak of large dwelling at Taylor Island, ½ mile, 116° 27′; left chimney of house nearest Slaughter Creek Bridge, ½ mile, 124° 00′; near peak of Taylor Island wharf house, ⅝ mile, 137° 15′; center of draw of Slaughter Creek Bridge, ⅜ mile, 138° 18′; near peak of old canning house, ⅜ mile, 169° 28′; near peak of barn, ⅝ mile, 192° 49′; nail in blaze in 8-inch tree, 20.18 meters (66.2 feet), 313° 14′; nail in blaze in 12-inch pine tree, 16.15 meters (53.0 feet), 333° 37′.

Taylor (Dorchester County, C. C. Yates, 1910).—On the western shore of Slaughter Creek, about ¼ mile south of Slaughter Creek Bridge, on hard land at edge of marsh, about 1 foot above high water, 22 yards northwest of shore, 28 yards southwest of shore, and 29 yards west of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Nail in blaze in 5-inch pine tree, 10.27 meters (33.7 feet), 3° 16′; nail in blaze in 5-inch pine tree, 5.83 meters (19.13 feet), 75° 04′; near peak of house, ⅜ mile, 98° 20′; taller stack of canning house at Taylor Island, ⅜ mile, 133° 47′; left chimney of house nearest Slaughter Creek Bridge, ¼ mile, 167° 36′; nail in blaze in 4-inch pine tree, 4.35 meters (14.27 feet), 125° 24′; left side of Taylor Island Wharf house, ¼ mile, 191° 23′; spindle on cupola of barn, ¾ mile, 206° 12′; near peak of barn, ¾ mile, 213° 27′; near peak of old canning house, ⅜ mile, 220° 17′; left chimney of large house, ½ mile, 221° 11′; near peak of barn, ⅝ mile, 232° 51′.

CHESAPEAKE BAY, PATUXENT RIVER TO SMITH POINT

Toms Point 2 (Dorchester County, D. B. Wainwright, 1897; 1902).—On Hooper Island near Toms Cove. Marked by a cement post extending to a depth of 3 feet and centered by a ¼-inch galvanized iron rod. Reported in 1912 as probably washed away.

Shanks Hammock 2 (Accomac County, Va., F. W. Perkins, 1898; 1901).—On the eastern shore of Chesapeake Bay, on the northeast side of Shanks Island, on low ground about ½ mile from the north end of the island, about 70 yards back from the shore, and 110 yards from the end of a point to the east. It is near the southern end of a hummock covered with a dense growth of scrub trees and bushes, and about 35 yards north of a pile of brick, the ruins of a house. The station mark is the center of a 4-inch tile pipe with the top just below the surface of the ground. The reference mark, the center

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of standard cement monument of the Maryland Shell Fish Survey, note 16, is 1.43 meters (4.69 feet) from the station in azimuth 58° 22′. Other distances and azimuths are as follows: Horse Hammock poplar, 3½ miles, 230° 49′; right tangent of point, 110 yards, 237° 44′; pine tree, ¾ mile, 254° 55′; stove pipe on large crab house, 2½ miles, 276° 23′; pile of brick, ruins of a house, 35 yards, 342°.

Briery Island (Somerset County, F. W. Perkins, 1898; 1901).—On the narrow cape extending westerly from the neck of marsh forming the most westerly portion of South Marsh, just south of Pry Island. It is 3 meters from the western shore line of the cape and 80 meters north of the extreme point. Marked by two 4-inch draintiles placed one above the other, the top of the upper tile being 4 inches below the surface of the ground. A 4-inch pine stub driven in flush with the ground has a nail to mark the center.

Bluff (Dorchester County, F. W. Perkins, 1898; 1901).—On Bluff Point, on the northern end of Middle Hooper Island, 11 paces from the shore line to the west, and 15 paces from a lone cedar which bears S. 70° W. from the station. Marked by two draintiles and a nail in a stub, note 19.

Rip (Dorchester County, F. W. Perkins, 1898; 1902).—On the southern end of Lower Hoopers Island, about ¼ mile east from Long Ridge, on a sand bank a few inches thick overlying a marsh. Station is 8 paces from marsh and 30 paces from the water. Marked by two 4-inch draintiles and a nail in a stub at the surface, note 19. Cement was used around the tiles. In 1912 this station was searched for without success.

Pone (Dorchester County, F. W. Perkins, 1898; 1901).—On the east shore of Chesapeake Bay, on Pone Point, on the northwest end of Billys Island, on marsh overlaid with sand, 26 paces from the shore line to the north and 22 paces from the shore line to the west. Billy's house bears S. 14° E. from the signal. Marked by two 4-inch draintiles and a nail in a stub at the surface, note 19.

Spring 2 (Dorchester County, F. W. Perkins, 1898; 1901).—In Holland Straits, at the northern end of Spring Island, on hard land covered with water bushes, about 1½ miles northeast from Holland Island Church, 14 paces east from high-water line and 31 paces (91.5 feet) from chimney of old house, which bears S. 81° E. from the station. Marked by two 4-inch draintiles placed one above the other, the top of the upper tile being 7 or 8 inches below the surface of the ground. The surface mark is a 4-inch pine stub, its top flush with the ground, and a nail marking the center.

Smith (Somerset County. F. W. Perkins, 1898; 1901).—On the western shore of the upper part of Smith Island, west of the northern end of a small cove, a branch of the strait known as the Thoroughfare, on a narrow strip of sand, about 3 meters from high water. Marked by a nail in a 4-inch pine stub set into a drain tile.

Reed (St. Marys County, D. B. Wainwright, 1897; 1908).—On the western shore of Chesapeake Bay, about 6½ miles south of Cedar Point Light, and 6¾ miles north-northwest of Point No Point Light, about 10 feet above high water, 7 yards west of edge of bluff, 65 yards north-northeast of a house, 35 yards south of a fence, 45 yards north of another fence, 45 yards northwest of large cedar tree on edge of bluff, and 35 yards north of line of fruit trees. Station marked by cement post with gray iron core sunk about 2½ feet in ground. Reference mark set in 1908 is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 34.13 meters (112.0 feet) from station in azimuth 349° 49′. Distances and azimuths to other points of reference are as follows: Cherry tree, 50 yards, 24° 36′; near corner of house, 65 yards, 29° 41′; near peak of roof of house, 200 yards, 112° 00′; right chimney of Tarleton House, 2⅜ miles, 154° 19′; 24-inch cedar tree, 45 yards, 322° 55′; pear tree, 35 yards, 346° 24′.

Tarleton 2 (St. Marys County, F. W. Perkins, 1898; 1907).—On the western shore of Chesapeake Bay, about 4½ miles south-southwest of Cedar Point Light. In a garden on land occupied by a Mr. Ford. In 1907 reference mark and surface mark reported as gone, but subsurface mark, a 6-inch tile pipe, may still remain.

Muck (Dorchester County, F. W. Perkins, 1898; 1901).—On the marsh at the southern end of Bloodsworth Island, on the point between Holland Straits and Northeast Cove, about 120 meters north of the extreme point and 20 meters east from high-water mark at nearest point. A clump of trees northeast of the station and distant about 200 meters identifies the point. Station marked by

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two draintiles one above the other, the top of the upper tile being 4 inches below the surface of the ground. A 3-inch pine stub with nail in top was driven in the center of the tiles.

Johnson (Dorchester County, F. W. Perkins, 1898; 1901).—About 5 meters from the western shore and 65 meters from the northwest point of a small island off the western shore of South Marsh. This island is close to and northwest of the extreme western point of the cape forming the northern boundary of Pry Cove. Station marked by draintile with top about 4 inches below surface of ground.

Fog 2 (Somerset County, F. W. Perkins, 1898; 1907).—On the southern shore of Kedge Straits, on the northwest point of Smith Island, on Fog Point, on the north side of a sand and grass point about 1 foot above high water and about 65 yards from extreme end of point to northeast, and 6 yards south-southeast from shore. The remains of the old Fog Point Lighthouse are about 50 yards to the west-southwest, and myrtle bushes abound on all sides except on the west side, which is a sandy beach. Station marked by a nail in center of top of tile pipe set flush with surface of ground. The center of triangle on a standard cement monument of the Maryland Shell Fish Survey, note 16, is 15.26 meters (50.10 feet) from the station in azimuth 00° 40′. The azimuth of old lighthouse foundation from the station is 73° 09′. Other distances and azimuths are as follows: Large lone cherry tree, ¼ mile, 00° 48′; first one of two trees, ½ mile, 13° 05′; large tree near two smaller ones, 1½ miles, 262° 03′; lone pine tree, 1 mile, 328° 50′.

Joseph (Somerset County, C. C. Yates, 1907).—On the eastern shore of Chesapeake Bay, on the western side of Smith Island, about 3 miles southwest from Solomons Lump Light, and ½ mile north of entrance to Smith Island Thoroughfare, on marsh land, about 30 yards back from edge of sandy shore. There is nothing but marsh grass for ¼ mile on all sides, except a slough about 30 yards wide, which begins about 60 yards southeast of the station and runs south to Smith Island Thoroughfare. Station mark is nail in stub flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 38.74 meters (127.1 feet) from the station in azimuth 221° 01′, being nearly in line with (to right of) Solomons Lump Light. Distances and azimuths to various points of reference are as follows: Tall lone tree, 1¼ miles, 241° 29′; right-hand one of two pines, ½ mile, 279° 22′; right end of slough, 60 yards, 290° 30′; Smith Island North Church, 1½ miles, 324° 20′; gable on front of 2½-story house, 1¼ miles, 330° 15′. (In 1911 *Smith 2* was established nearly identical with *Joseph*, see index.)

Desert (St. Marys County, C. C. Yates, 1908).—On the western shore of Chesapeake Bay, about 3 miles south-southwest of Cedar Point Light. Station is on sand and grass land, about 25 yards west from ordinary high-water mark, about at level of extreme high-water mark, 40 yards south of a fence, 10 yards east of a fence, 45 yards south of a creek, about 50 yards north of a point of pine woods, and about 300 yards east of woods across marsh. Station mark is a 4-inch draintile pipe, projecting about 2 inches above surface of sand. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, set 5.29 meters (17.36 feet) from the station in azimuth 148° 36′. Other distances and azimuths are as follows: Point of woods, 50 yards, 00° 00′; nail in blaze in 14-inch pine tree, 7.62 meters (25.00 feet), 148° 36′; chimney on near end of house, ½ mile, 190° 43′; large square chimney on larger of two houses, 1 mile, 198° 53′; near end of peak of roof of Tarleton House, 2 miles, 349° 14′.

Cain (St. Marys County, C. C. Yates, 1908).—On the western shore of Chesapeake Bay, about 1⅝ miles southwest of Cedar Point Light, on a bank about 5 feet above high-water mark, about 20 yards northwest of ordinary high-water mark, 5 yards northwest of extreme high-water mark, 100 yards south-southwest of old-fashioned house among several large trees, and about 250 yards below small wharf and canning house. Station marked by a nail set in cement in a 3-inch pipe with top about 2 inches above the ground. The reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, 6.45 meters (21.16 feet) from the station in azimuth 196° 55′. Other distances and azimuths are as follows: Right chimney on Tarleton house, 3¼ miles, 1° 56′; near corner of house, 100 yards, 201° 57′; aspen tree in house yard, 100 yards, 206° 20′.

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Potomac (St. Marys County, C. C. Yates, 1908).—On the western shore of Chesapeake Bay ¾ mile north of extreme end of Point Lookout, and ½ mile north-northeast of Point Lookout Lighthouse, at the upper end of a pine woods, about 2 feet above high water, 12 yards west by south of shore, 15 yards east-southeast of woods and edge of marsh, and 100 yards north of large pine trees. Center marked by nail in stub with top flush with ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 10.72 meters (35.2 feet) from station in azimuth 23° 34′. Other distances and azimuths are as follows: Nail in blaze in 3-inch pine tree 10.62 meters (34.8 feet), 95° 51′; first tree on Cornfield Point, 2 miles, 104° 18′; nail in blaze in 3-inch pine tree 6.56 meters (21.52 feet), 158° 52′; first tree on Point Lookin, 3½ miles, 169° 56′; first tree on Point No Point, 6¼ miles, 179° 00′; nail in blaze in 3-inch pine tree, 6.56 meters (21.52 feet), 355° 41′.

Point Lookin (St. Marys County, C. C. Yates, 1908).—On the western shore of Chesapeake Bay, on Point Lookin, about 1⅜ miles south-southeast of entrance to St. Jerome Creek and 3 miles southwest of Point No Point Light. On a sand dune about 3 feet above high water, 8 yards west of shore, 4 yards east of slough, 56 yards southeast of point of woods, and 90 yards north of another point of woods. Center marked by nail in stub flush with ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. It is set in the woods across a slough from the station and 44.04 meters (144.5 feet) from it in azimuth 128° 01′. Other distances and azimuths are as follows: Point of woods, 90 yards, 3° 43′; nail in blaze in oak tree (8 inches diameter), 36.68 meters (120.3 feet), 118° 31′; nail in blaze in 14-inch oak tree 41.08 meters (134.8 feet), 130° 16′; nail in blaze in 5-inch cedar tree, 46.78 meters (153.5 feet), 139° 27′; near peak of roof of old barn, ⅜ mile, 139° 39′; point of woods, 56 yards, 140° 17′; near chimney of small house, ⅞ mile, 154° 26′; two chimneys of old house, 2⅛ miles, 159° 20′; near peak of roof of house on point, 1½ miles, 165° 28′.

St. Jerome (St. Marys County, C. C. Yates, 1908).—On the western shore of Chesapeake Bay, on St. Jerome Point, at north side of entrance to St. Jerome Creek, about 2⅝ miles west-southwest of Point No Point Light. Station is about 3 feet above high water, 6 yards northwest by west of shore, 75 yards south of large pond, and 120 yards north of a house. Center marked by nail in stub flush with surface of ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, 19.57 meters (64.2 feet) from station, in azimuth 135° 11′. Other distances and azimuths are as follows: Near corner of house, 119 yards, 41° 01′; near chimney of house, ½ mile, 63° 46′; chimney of oyster house, ½ mile, 72° 12′; St. Michaels Catholic Church spire, 1⅝ miles, 92° 28′; right chimney of house, 1½ miles, 115° 32′; large chimney of house, 150 yards, 146° 19′; chimney outside of house, ½ mile, 181° 06′.

Point Agin (St. Marys County, C. C. Yates, 1908).—On the western shore of Chesapeake Bay, about 4⅝ miles northwest of Point No Point Light, and 8¾ miles south of Cedar Point Light. Station is near edge of dense pine woods, about 5 feet above high water, 6 yards southwest of edge of bank, 10 yards south of point of curve of bank, 400 yards south of road across marsh, and 425 yards south of mouth of sand-blocked creek. Center marked by nail in stump flush with surface of ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, 18.67 meters (61.3 feet) from station in azimuth 49° 25′. Nails in blazes in three pine trees are at the following distances and azimuths from the station: 17.72 meters (58.1 feet), 29° 26′; 12.02 meters (39.4 feet), 69° 02′; and 11.74 meters (38.5 feet), 95° 33′.

Ford (St. Marys County, C. C. Yates, 1908).—On the western shore of Chesapeake Bay, about 1¾ miles south of entrance to Pine Hill Run, in a garden about 25 feet above high water, 32 yards west of edge of bank, 40 yards northeast of near corner of house, 4 yards north of a wire fence, 33 yards north of a paling fence, and 38 yards south of another paling fence. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. The reference mark, a nail in tile pipe, is 30.26 meters (99.3 feet) from station in azimuth 309° 29′. Other distances and azimuths are as follows: Nail in 5-inch damson tree, 4.76 meters (15.62 feet), 40° 26′; chimney

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of Ford house, 42 yards, 75° 01′; peak of barn, 76 yards, 129° 12′; near peak of barn, 2 miles, 168° 38′.

Smith 2 (Somerset County, J. B. Boutelle, 1911).—Almost identical with *Joseph*, 1907 (see index). The signal was recovered but the center point was not located. The standard cement monument of the Maryland Shell Fish Survey, note 16, used as a reference mark for *Joseph* was recovered in place and is 125 feet from *Smith 2* in line with Solomons Lump Lighthouse. *Smith 2* is marked by a 6 by 6 by 24 inch cement block with a triangle, the year "1910" and the letters "C. G. S." cut in its top.

Pry (Somerset County, J. B. Boutelle, 1911).—About 2½ miles northeast of Holland Island Bar Lighthouse on the northwest end of a large marshy island west of South Marsh Island and about ¼ mile south of Pry Island. Marked by a cement block 6 by 6 by 24 inches with a triangle, the year "1910" and the letters "C. G. S." cut in its top.

Hog (Somerset County; J. B. Boutelle, 1911).—On the west side of Smith Island, on the north side of the entrance to the southernmost of two creeks, 300 feet north of the mouth of the creek, 36 feet east of the shore line, and 6 feet west of a clump of bushes. Marked by a cement block 6 by 6 by 24 inches with a triangle, the year "1910" and the letters "C. G. S." cut in its top.

Cheese (Accomac County, Va.; J. B. Boutelle, 1911).—Southwest of Smith Island, on the western shore of Hog Neck, ¼ mile north of the long narrow strip of sand extending south toward Shanks Hammock, 33 feet east of the shore line and 50 feet west of a small pond. Marked by a cement block 6 by 6 by 24 inches, extending about 2 inches above the surface, with a triangle, the year "1910" and the letters "C. G. S." cut in its top.

Hoop (Dorchester County, J. B. Boutelle, 1912).—On the southwest shore of Hooper Island, on the north side of the entrance to Hooper Strait, on a narrow strip of fast land extending back inland for some distance, south of a bunch of pine trees, and 65 feet back from the shore line. Marked by a cement block 6 by 6 by 24 inches extending 4 inches above the surface, with a triangle, the year "1912" and the letters "C. G. S." in its top. Subsurface mark is a cement block 6 by 6 by 9 inches, buried 3 feet below the surface. Both blocks have a nail in center marking the point. Distances and azimuths to points of reference are as follows: Blaze in pine tree, 41 feet, 151° 03; blaze in pine tree, 37.5 feet, 197° 18′, signal of Maryland Shell Fish Survey, 1,015 feet, 290° 01′.

Adam 2 (Dorchester County, J. B. Boutelle, 1912).—On the eastern side of Chesapeake Bay, on the north end of Adams Island about 4 miles south of the entrance to Hooper Strait, on a grassy spot free from shrubbery, 73 feet east from a strip of sandy beach on the bay shore, 263 feet from the north point of the island, 247 feet from the east side of the point, 68 feet north-northwest from a lagoon, and 40 feet from a bush whose azimuth is 147°. Marked by a cement block 6 by 6 by 24 inches, extending 6 inches above the sand with a triangle, the year "1912" and the letters "C. G. S." in the top. Subsurface mark is a cement block 6 by 6 by 9 inches, buried 3 feet below the surface.

Bite (Dorchester County, J. B. Boutelle, 1912).—On the east side of Chesapeake Bay, at the south side of entrance to Hooper Strait, on the northwest end of Bloodsworth Island, on a strip of fast land between the marsh and the shore line, and about 100 feet from the shore. Marked by a cement block 6 by 6 by 24 inches, flush with the surface, with a triangle, the year "1912" and the letters "C. G. S." in the top. Subsurface mark is a cement block 6 by 6 by 9 inches, buried 3 feet below the surface. Both blocks have a nail in center marking the point.

Barren (Dorchester County, J. B. Boutelle, 1912).—On east side of Chesapeake Bay, near the south end of Barren Island, about 160 meters northwest of a point where the island contracts to a long narrow neck of land, on a strip of firm sandy soil, about 50 feet back from the shore line, and about 50 feet south of end of pine-tree growth. Marked by a cement block 6 by 6 by 24 inches, extending 6 inches above the surface, with a triangle, the year "1912" and the letters "C. G. S." in the top. Subsurface mark is a cement block 6 by 6 by 9 inches, buried 3 feet below the surface. Nail in center of top block marks point. Reference marks are triangular blazes in pine trees, with the following distances and azimuths: Tree "A," 86 feet, 137° 56′; tree "B," 104 feet, 308° 41′.

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Shad (Dorchester County, J. B. Boutelle, 1912).—On eastern side of Chesapeake Bay on Bluff Point, on the northwestern end of the southern part of Hooper Island, about ½ mile southwest of an old trestle bridge connecting the two parts of Hooper Island, on firm wet ground covered with grass and bushes, 84 feet from the southern shore, 110 feet from the northern shore, and 150 feet from the point. Marked by a cement block 6 by 6 by 24 inches, extending 5 inches above the surface, with a triangle, the year "1912" and the letters "C. G. S." in the top. Subsurface mark is a cement block 6 by 6 by 9 inches, buried 3 feet below the surface. Distances and azimuths to points of reference are as follows: Ward's grave, 137 feet, 270° 14′; old shed, 185 feet, 279° 38′.

Wet (Dorchester County, J. B. Boutelle, 1912).—On the southwestern shore of Hooper Island, about 130 feet east of the shore line, and on wet, marshy ground. Distances to points of reference are as follows: House of F. Booze, 430 feet south; southwest corner of wire fence around the house of S. Hooper, 153 feet southwest; clump of small pine trees, 270 feet northwest; house southwest of pine trees, 450 feet north. Marking not known.

Cove (Dorchester County, J. B. Boutelle, 1912).—On the western shore of Hooper Island, about east-northeast of Hooper Island Lighthouse, on a strip of firm land extending along the shore at this point, and 20 feet back of high-water mark. A line from the station to Hooper Island Lighthouse passes about midway between the two Swan Islands which lie about 600 feet offshore. Marked by a pine stub 4 by 4 inches by 3 feet, projecting 6 inches above ground with nail in center. Reference marks are triangular blazes in two pine trees with distances and azimuths as follows: 62 feet, 251° 29′; 154 feet, 342° 46′.

Neck (Dorchester County, J. B. Boutelle, 1912).—On the east shore of Chesapeake Bay, west of Bloodsworth Island, on a neck of land about ¾ mile long and 250 feet wide forming the northwest end of Billy Island, about 100 feet southeast of the end of the point, about 30 feet back from the shore line, and about halfway between the shore line and a line of bushes. Marked by a wooden stub 2 by 4 inches by 5 feet extending 6 inches above ground.

Rich (Dorchester County, J. B. Boutelle, 1912).—On the east shore of Chesapeake Bay, at the southern end of Hoopers Island, on a marsh island about 600 feet long and from 70 to 100 feet wide, about ½ mile southeast of Richland Cove, 1¼ miles northwest of the southernmost end of Hoopers Island, 100 feet from the southwest end of this marsh island, 34 feet from the southeast shore line, and 36 feet from the northwest shore line. Marked by a wooden stub.

Smith Island, old church spire (Somerset County, F. W. Perkins, 1898; 1907).—On the western side of the group of marsh islands known as Smith Island, on solid land about ⅜ mile from eastern shore of Chesapeake Bay and ⅛ mile east of upper end of Shanks Creek at Rhodes Point. Center of spire of church known as Calvary Methodist Episcopal Church.

Smith Island, Ewell Church spire (Somerset County, F. W. Perkins, 1898; 1916).—In the town of Tylerton, near the center of the group of marsh islands known as Smith Island, on solid land about ⅛ mile east of the narrowest part of waters joining Tylers Creek and Tylers Ditch. Center of spire of church known as Union Methodist Episcopal Church.

Smith Island, north church spire (Somerset County, F. W. Perkins, 1898; 1907).—In the town of Ewell on the group of marsh islands known as Smith Island. Center point of spire of church known as Corinth Methodist Episcopal Church.

HONGA RIVER

Windmill 2 (Dorchester County, F. W. Perkins, 1898; 1910).—On the eastern shore of Honga River, on Windmill Point, about 1⅞ miles east-northeast of Hoopersville. Station is on marsh, about 1 foot above high water, 25 yards north-northeast of end of point, 35 yards east of shore, and 30 yards northwest of shore. Station marked by nail in stub driven in center of 4-inch tile pipe, the top of the tile being 4 inches below surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 19.75 meters (64.8 feet) from station in azimuth, 216° 41′. Distances and azimuths to other points of reference are as follows: Left

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tangent Hooper Island Wharf, 1¼ miles, 60° 47′; two house chimneys about in line, 1⅝ miles, 65° 46′; center of store doorway in Hoopersville, 1⅝ miles, 68° 16′; near peak of house, 2 miles, 118° 21′; tangent to Bentley Point, 1½ miles, 156° 08′; near gable of house, 1½ miles, 214° 14′; near peak of cabin, 1½ miles, 248° 06′.

Applegarth (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Chesapeake Bay, on the southern end of Lower Hooper Island, about 3½ miles east of Hooper Strait Light, on marsh, about 1 foot above high water, and 150 yards north of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left one of row of large pine trees, ⅛ mile, 108° 35′; chimney of house, ¾ mile, 146° 20′; chimney in middle of house, ¾ mile, 163° 02′; chimney in center of house, ¾ mile, 176° 07′; chimney of abandoned house, ½ mile, 187° 40′; near peak of house showing over roof, ½ mile, 194° 21′; right tangent to clump of pine trees, 300 yards, 211° 48′.

Okahanikan (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Chesapeake Bay, on the western side of Bloodsworth Island, about ⅝ mile south of point at south side of entrance to Okahanikan Cove, and 2¾ miles south-southeast of Hooper Strait Light. The station is on sandy marsh about 2 feet above high water, 40 yards southeast of shore, and 35 yards west of water bushes between sand and soft marsh. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. The subsurface mark is center of 2-inch draintile, note 17. Distances and azimuths to various points of reference are as follows: Peak of barn, 4 miles, 202° 05′; left chimney of large house, 3¾ miles, 232° 03′; chimney on small house, 357° 15′; chimney of house on Billy Island, 1¼ miles, 4° 05′; tangent to north end of Billys Island, 1 mile, 10° 18′; chimney in center of house, 4½ miles, 146° 03′; chimney on right end of house, 5 miles, 188° 31′.

Norman (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Honga River, about 2½ miles north-northwest of Hooper Strait Light, and ½ mile south of Crab Point, on marsh about 1 foot above high water, 60 yards east of shore, 70 yards northeast of shore, and 80 yards southeast of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Tangent of lower end of Hooper Island, 2 miles, 41° 01′; between two stacks on oyster house at Hooper Island wharf, 3⅞ miles, 95° 16′; left tangent of woods, 400 yards, 149° 03′; front peak of store building, 2⅛ miles, 170° 22′; near peak of house, 3 miles, 181° 46′; left one of two chimneys close together, 2 miles, 213° 11′; near peak of canning house, 2 miles, 215° 25′; flagstaff on hall at Bishop Head, 1¾ miles, 249° 19′; right tangent of woods, 400 yards, 336° 49′.

Paul (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Honga River, on Paul Point, at the western side of entrance to Fox Creek, about 1½ miles east-northeast of Windmill Point and ¾ mile southwest of Wingate Point. Station is on a marsh point, about 1 foot above high water, 7 yards west of shore, 13 yards northwest of shore, 25 yards north-northeast of extreme end of point, 50 yards north-northwest of a small marsh island, and 55 yards east-northeast of a cabin. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Between two stacks on oyster house on Hooper Island Wharf, 3 miles, 64° 50′; near corner of cabin, 53 yards, 78° 47′; near peak of house, 1 mile, 124° 23′; peak of barn, 2 miles, 170° 08′; center one of three chimneys on large house, 1½ miles, 202° 39′; chimney of Wingate Wharf waiting room, ⅝ mile, 233° 20′; flagstaff on hall at Bishop Head, 2⅞ miles, 288° 11′; left side of small cabin on Crab Point, 1¾ miles, 320° 47′.

Duck (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Fox Creek, on Piney Point, at the north side of entrance to Duck Point Cove, about ¾ mile southeast of Wingate Point. Station is on a marsh point, 1 foot above high water, 50 yards south of shore, 50 yards north of shore, and 65 yards east-northeast of end of point. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of small cabin, 1 mile, 11° 53′; left tan-

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gent of Hooper Island, 3 miles, 24° 50′; left chimney of house, 2 miles, 95° 20′; left edge of cabin on Paul Point, 1⅛ miles, 96° 09′; tangent of outside end of Wingate Wharf, ⅞ mile, 122° 32′; chimney on waiting room Wingate Wharf, ⅞ mile, 123° 06′; front peak of store building, ¾ mile, 150° 44′; peak of oyster house, ¾ mile, 159° 26′; near gable of house, 1 mile, 182° 19′; outside chimney of house, 1⅛ miles, 254° 58′.

Bentley (Dorchester County, C. C. Yates, 1910).—On the southwestern shore of Honga River, on the north side of Bentley Point, about 2 miles south of Wroten Island, and 1½ miles east of drawbridge at Ferry Point, on marsh about 1 foot above high water, 30 yards southwest of shore, 45 yards east of shore, and 50 yards southeast by south of small marsh point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of house, ⅞ mile, 13° 07′; center draw of Hooper Island bridge, 1½ miles, 100° 41′; peak of draw-tender's cabin, 1⅝ miles, 102° 55′; near peak of oyster house, 4¼ miles, 124° 06′; near peak of large house, 3¼ miles, 129° 06′; right edge of barn, 1¾ miles, 155° 09′; left chimney of house, 2⅛ miles, 175° 01′; center of old windmill, 2½ miles, 240° 17′; stack of oyster house at Hooper Island Wharf, 2½ miles, 351° 20′.

Asquith (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Honga River, on Asquith Island, about 2½ miles northeast of Hoopersville, and ⅞ mile north of Windmill Point, on a strip of sandy marsh between a pond and river, about 2 feet above high water, 3 yards west of shore of pond, 11 yards east of shore of river, and 50 yards south of end of point. Station is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of house, 2 miles, 49° 09′; near peak of barn, 2¼ miles, 54° 03′; near peak of small barn, 1¾ miles, 83° 21′; nail in blaze in 15-inch pine tree, 6.04 meters (19.82 feet), 132° 57′; left side of old windmill, 2 miles, 199° 48′; near peak of house, 2⅛ miles, 202° 47′; nail in blaze in 12-inch pine tree, 17.08 meters (56.0 feet), 5° 03′; nail in blaze in 15-inch pine tree, 7.48 meters (24.54 feet), 21° 47′; tangent to outside end of Hooper Island Wharf, 1¾ miles, 37° 17′.

Lakes (Dorchester, C. C. Yates, 1910).—On the northeast shore of Honga River, on point at northern side of entrance to Lakes Cove, about 1½ miles north-northeast of Bentley Point, on marsh about 1 foot above high water, 26 yards north of shore, 65 yards northeast of shore, and 70 yards east of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to points of reference are as follows: Chimney on outside of house, ¾ mile, 188° 49′; between two dormer windows of house, 1¾ miles, 248° 09′; left chimney of house, ⅞ mile, 279° 43′.

Charles (Dorchester County, C. C. Yates, 1910).—On the northeastern shore of Honga River, about 1¾ miles north of Bentley Point, and 2½ miles east-northeast of drawbridge at Ferry Point, on firm land about 1 foot above high water, 20 yards east-southeast of shore, 30 yards northwest of shore, 50 yards north-northeast of shore, and 40 yards southwest by south of large tree near bend in rail fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Center of draw of Hooper Island Bridge, 2½ miles, 62° 16′; left edge of draw tender's cabin, 2½ miles, 63° 53′; chimney on right end of house, 3 miles, 84° 01′; left peak of oyster house, 3¼ miles, 91° 24′; chimney on left end of house, 1½ miles, 95° 13′; chimney on end of house, 1¾ miles, 99° 11′; nail in blaze in 6-inch tree, 19.93 meters (65.4 feet), 251° 28′; nail in blaze in 6-inch tree, 12.63 meters (41.4 feet), 178° 06′; left edge of barn roof, 2¼ miles, 322° 17′.

Wroten (Dorchester County, C. C. Yates, 1910).—On the northeastern shore of Honga River, on southern shore of Wroten Island, about 2½ miles north-northwest of Bentley Point, on marsh about 1 foot above high water, 40 yards west of shore, 55 yards northwest of shore, and 100 yards north of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows:

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Chimney on right end of house, 2⅜ miles, 13° 10′; center of draw of Hooper Island Bridge, 2 miles, 33° 27′; right edge of house in trees, ⅝ mile, 96° 32′; near peak of barn, ⅜ mile, 108° 51′; near peak of house, ¾ mile, 205° 34′; chimney on left end of house, 1½ miles, 255° 42′.

Bridge (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Chesapeake Bay and western shore of Honga River, on Ferry Point at the southern end of Upper Hooper Island, about 3¾ miles northeast by north of Hooper Island Light. Station is on a marsh point, about 1 foot above high water, 50 yards west of river shore, 55 yards south of river shore, 85 yards east of shore of bay, 75 yards northeast by north of second telephone pole north of bridge, and 80 yards north-northeast of bridge tender's cabin. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile, note 17. Distances and azimuths to various points of reference are as follows: Near peak of oyster house, 1½ miles, 148° 41′; near peak of barn, 1½ miles, 203° 46′; center of roof of old windmill, 3¾ miles, 257° 33′; outside chimney of right end of house, 1 mile, 299° 16′; chimney in center of large house, 1¼ miles, 306° 28′; chimney in center of house, 2 miles, 320° 38′.

Gunners (Dorchester County, C. C. Yates, 1910).—On the western shore of Honga River, on Gunners Island, on point at northern side of entrance to Gunners Cove, about ⅝ mile north of Long Point and 1⅛ miles southeast of Fishing Creek Bridge, on marsh with water bushes alongshore, about 1 foot above high water, 23 yards southwest of shore, 28 yards south of shore, 70 yards northwest of extreme end of point, and 170 yards northeast of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Left edge of house, 1⅛ miles, 97° 55′; near peak of house, 1⅛ miles, 105° 32′; center of draw of Fishing Creek Bridge, 1⅛ miles, 133° 00′; right edge of old windmill, 1¼ miles, 133° 33′; near peak of small house, 1¼ miles, 138° 10′; near peak of barn, 2½ miles, 270° 53′; chimney on left end of house, 2 miles, 296° 35′; center of drawbridge, 2⅞ miles, 353° 03′.

Kerwin (Dorchester County, C. C. Yates, 1910).—On the northeastern shore of Honga River, about 2¼ miles east-northeast of Fishing Creek Bridge and 1½ miles east of Keenes Point, on marsh about 1 foot above high water, 60 yards east of shore, 60 yards northwest of shore, and 55 yards north-northeast of end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile, note 17. Distances and azimuths to various points of reference are as follows: Chimney on outside of end of house, 3 miles, 63° 05′; right chimney of house, 2¼ miles, 65° 41′; center of draw of Fishing Creek Bridge, 2¼ miles, 69° 36′; stack of Fishing Creek crab house, 2¼ miles, 70° 30′; center of old windmill on Fishing Creek, 2¼ miles, 71° 06′; tangent of woods, 250 yards, 104° 18′; stovepipe on left edge of house, 1 mile, 197° 15′; near chimney of house, ⅛ mile, 264° 35′.

Keenes (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Honga River, on Keenes Point, about 1¼ miles north-northeast of Fishing Creek Bridge and ¾ mile east of Cedar Point, on marsh with dense growth of water bushes alongshore, about 1 foot above high water, 20 yards north of shore, 30 yards east of shore, and 35 yards south of cultivated land. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Subsurface mark is center of 2-inch tile pipe, note 17. Distances and azimuths to various points of reference are as follows: Near peak of barn, 1 mile, 80° 10′; chimney on right end of house, 1 mile, 81° 36′; near peak of barn, 2 miles, 116° 52′; left tangent of trees along edge of cultivated field, 65 yards, 132°; center one of group of three large pine trees, ½ mile, 202° 46′; right tangent of trees along edge of cultivated land, 60 yards, 265°.

Mount Zion M. E. Church spire (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Tar Bay, on Upper Hooper Island, about 1¾ miles northwest of Ferry Point and 2 miles south of entrance to Fishing Creek. Station is center of spire on church known as Mount Zion Methodist Episcopal Church.

Hopkins Memorial Church (Dorcheser County, C. C. Yates, 1910).—On the eastern shore of Chesapeake Bay, in the small village of Applegarth, on Lower Hooper Island, about 2¾ miles southeast by east of Hooper Island Wharf and

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3¾ miles east-southeast of Hooper Strait Light. Station is center of bell cupola on church known as Hopkins Memorial Church.

Hosier Memorial Church spire (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Tar Bay, on Upper Hooper Island, about 5⅜ miles north by east of Hooper Island Light and 1 mile south of Fishing Creek. Station is center of spire on church known as Hosier Memorial Church.

Hoopersville Methodist Episcopal Church cupola (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Chesapeake Bay, in town of Hoopersville on Middle Hooper Island, about ¼ mile southwest of Hooper Island Wharf. Station is center of bell cupola on church known as Hoopersville Methodist Episcopal Church.

St. Thomas Church spire (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Honga River, in the town of Bishop Head, about 2½ miles southeast by east of Wingate Wharf and 2¾ miles north of Hooper Strait Light. Station is center of spire on church known as St. Thomas Church.

TANGIER SOUND

Blood (Dorchester County, G. L. Flower, 1901).—On the western side of Tangier Sound, on the northeast corner of Bloodsworth Island, on northern shore of large cove (Piney Island Cove), and on the southern of the two points forming the cape between this cove and Hooper Strait. Station is in marsh about 80 meters northwest from extreme point and about midway between the shore to the east and a small drain to the west, being about 50 meters from each. Station marked by a nail in pine stub passing through two 4-inch tile pipes so set in the marsh that the top of the upper one is 4 or 5 inches below the surface of the ground, while the top of the stake is about even with the surface.

Haines (Somerset County, W. I. Vinal, 1901; 1907).—On the eastern side of Tangier Sound, on Haines Point, about ⅝ mile north of Deal Island Wharf. Station is on a sandy mound, on a sand and grass point, about 20 feet back from and 5 feet above high-water mark. Locust and water bushes stand about 20 yards to the north, and the left edge of this clump is about on line with Sharkfin Shoal Light. A barbed-wire fence runs 3 yards east of the station. Station marked by nail in pine stub inside a 4-inch tile pipe originally 2 feet long, set in cement. In 1907 the top of the tile was found broken off below the surface of the ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 9.64 meters (31.63 feet) from station in azimuth 257° 43′. Distances and azimuths to other points of reference are as follows: Chimney of 2½-story white house trimmed with red, ½ mile, 209° 06′; chimney of unpainted house, 350 yards, 219° 51′; chimney on end of red cottage trimmed with white, ¾ mile, 233° 02′; pine tree, 2.14 meters (7.02 feet), 282° 39′; large square chimney on red house, 400 yards, 286° 51′; right one of 5 large pines, 300 yards, 318° 42′; halfway between chimneys on store on Deal Island, ¾ mile, 347° 10′; Deal Island Church, 1½ miles, 351° 02′; black gum tree, 6.70 meters (21.98 feet), 357° 51′; right end of Deal Island Wharf, ½ mile, 368° 12′.

Clay (Dorchester County, W. I. Vinal, 1901).—On the southwestern point of Clay Island, between Fishing Bay and Tangier Sound. A mulberry tree stands 5 meters north by west of the station. Station marked by nail in pine stub inside 4-inch tile pipe, set in cement, flange end down.

Bishop 2 (Dorchester County, F. W. Perkins, 1898; 1901).—On the northern shore of Hooper Strait, on point at west side of Hopkins Cove, about 10 meters east and 10 meters north of shore line. The station is 19 meters south of a wire fence, 24 meters southwest of a pine tree, and 20 meters south-southwest of a persimmon tree. It is marked by nail in stub set inside a 4-inch tile pipe, the top of pipe being about 8 inches below surface of ground.

Hall (Somerset County, W. I. Vinal, 1901).—On the eastern shore of Tangier Sound, on Halls Point, 4 meters from the edge of a bluff, about 5 meters west of a group of small locust trees, 32 meters northwest of a barn, and 18 meters north of an iron pipe. Four trees are at the following distances and bearings from the station: Mulberry tree, 7 meters, S. by W.; mulberry tree, 10 meters, S.S.W.; mulberry tree, 33 meters, S. by E.; cedar tree, 13 meters, E.S.E. Station marked by nail in pine stub inside a 4-inch tile pipe 2 feet long, set in cement, flange end down.

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Ted (Dorchester County, W. I. Vinal, 1901).—On the western shore of Fishing Bay, just north of entrance to Tedious Creek, and 5 meters back from high-water mark. Station marked by nail in pine stub inside 4-inch tile pipe 2 feet long, set in cement, flange end down.

Sandy 2 (Dorchester County, W. I. Vinal, 1901).—On the east side of Clay Island, on Sandy Point, at the west side of entrance to Nanticoke River, on land occupied (in 1901) by W. J. Bradley. Station is 5 meters back from high-water mark. Station marked by nail in pine stub inside a 4-inch tile pipe 2 feet long, set in cement, flange end down.

Fishbone (Accomac County, Va., F. W. Perkins, 1898; 1907).—On the western side of Fishbone Island, which lies between Smith and Tangier Islands, on marsh ground, about 15 yards from shore to the west, and about halfway between the northern and southern extremities of the island. The station is about level with highwater mark, but there is a slight elevation between the station and the shore, and a small shanty stands about 20 yards to the southwest. The center was marked by a nail in a 4 by 4 inch scantling driven into the ground, its top flush with the surface of the ground. The reference mark is the center of standard cement monument of the Maryland Shell Fish Survey, note 16; set 10.08 meters (33.1 feet) from the station, in azimuth 19° 05′. Other distances and azimuths are as follows: Near corner of shanty, 17.44 meters (57.2 feet), 20° 24′; peak of house, 200 yards, 210° 06′; stovepipe on flat-roof shanty, 200 yards, 217° 15′.

Reach Hammock (Accomac County, Va., J. B. Baylor 1898; 1907).—At the south end and on the eastern side of Tangier Sound, on the northeastern end of Reach Hammock, a small, marshy island, located between Smith and Tangier Islands, and about 1 mile east of Fishbone Island. Station is about 5 feet from the shore line (rapidly washing away in 1907) and close by a small fish-fertilizer factory. The center mark is a 6-inch draintile pipe sunk 3½ feet in the ground, its top flush with the surface. The reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 9.10 meters (29.86 feet) from the station, in azimuth 66° 06′. Other distances and azimuths are as follows: Near corner of shed, 18.32 meters (60.1 feet), 6° 06′; chimney of small house, 45 yards, 82° 11′; left edge of house, 1¼ miles, 105° 54′; right edge of roof of right-hand house, 1¼ miles, 107° 04′; chimney of 2½-story house on Herring Island, 2 miles, 133° 41′; left corner of brickwork of factory, 6.68 meters (21.92 feet), 342° 10′; right corner of brickwork, 7.31 meters (23.98 feet), 354° 15′.

Egg (Somerset County, W. I. Vinal, 1901).—On the west side of Tangier Sound, about ½ mile north of northeast point of South Marsh, in about the center of a small island known as Turtle Egg Island. Station marked by nail in pine stake inside a 4-inch tile pipe 2 feet long, set in cement, flange end down.

Deal 2 (Somerset County, W. I. Vinal, 1901).—On eastern side of Tangier Sound, on extreme western point of Deal Island, about 1½ miles south of Deal Island Steamboat Wharf and about ½ mile southwest of a large two-story white house with two red-brick chimneys. Station marked by nail in pine stub inside 4-inch tile pipe 2 feet long, set in cement, flange end down.

Buff (Somerset County, W. I. Vinal, 1901).—On the western side of Tangier Sound, on eastern side of South Marsh, on Peters Point, 5 meters from the end of the point, and a few meters southeast of the mouth of a small stream. Station marked by nail in pine stub inside a 4-inch tile pipe 2 feet long, set in cement, flange end down.

Thomas (Somerset County, W. I. Vinal, 1901).—On the eastern side of Tangier Sound, on the southwest side of Little Island, about ¼ mile southeast of extreme western point of that island, on a sand hill. Marked only by a braced pole signal.

Piney (Somerset County, W. I. Vinal, 1901).—On the northeast side of entrance to Manokin River, about 1 mile southeast of Little Island, on the west side of Piney Island, about 10 meters back from high-water mark. Station marked by nail in pine stub inside 4-inch tile pipe 2 feet long, set in cement, flange end down.

Hazzard (Somerset County, F. F. Weld, 1901).—On eastern side of Tangier Sound, on point at north side of entrance to Big Annemessex River and south side of Hazard Cove, on a mound about 12 feet above high water. Station marked by a length of 4-inch draintile pipe.

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Flat Cap (Somerset County, F. F. Weld, 1901; 1907).—On the eastern shore of Tangier Sound, about ½ mile south of Flat Cap Point on the south side of entrance to Big Annemessex River. Station is on a sand dune, about 10 yards back from and 10 feet above high-water mark. A sandy beach extends along the shore for about 100 yards in both directions, and the remainder of the land is grassy. A slough begins at a point about 50 yards southeast of the station and extends south. Station mark is a 1½-inch iron pipe 5 feet long, driven into the sand, its top flush with the surface of the ground. The reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 13.64 meters (44.8 feet) from the station, in azimuth 278° 09′. Other distances and azimuths are as follows: Fish factory stack on Janes Island, 4¼ miles, 10° 22′; left end of roof of white house near Prickly Point, 2½ miles, 189° 07′; right end of long building in woods, 2½ miles, 267° 55′; tower of Odd Fellows' building, Crisfield, 3½ miles, 341° 52′; lone smokestack on Crisfield Ice Plant, 3¾ miles, 350° 17′.

Terrapin (Somerset County, C. C. Yates, 1907).—On the western shore of Tangier Sound, on extreme northeast point of Smith Island, known as Terrapin Sand Point. Station is on northeast side of a marsh point, about 50 yards west of its extreme end and 35 yards southwest of high-water mark on northeast side. A clump of myrtle bushes stands on the point about 150 yards southwest of the station, the azimuth to the west end of the bushes being 271½°. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16.

Has (Somerset County, C. C. Yates, 1907).—On the eastern shore of Tangier Sound, on point at north side of Big Annemessex River, about halfway between Porpoise Point and Two Mouth Creek. Station is on sand dune, about 10 feet above and 30 yards back from high-water mark to west. A pool averaging 40 by 100 feet stands 50 feet east of the station. Center mark is a nail in a pine stub with top flush with ground. Reference mark is center of triangle on standard cement monument of the Maryland Shell Fish Survey, note 16; it is 5.21 meters (17.09 feet) from the station, in azimuth 263° 24′. Other distances and azimuths are as follows: Tangent to point of land, ⅛ mile, 96° 14′; chimney of house among trees, 1⅜ miles, 176° 22′; right end of white house roof, 2 miles, 202° 06′; chimney of large unpainted house, ¾ mile, 213° 58′.

Prickly (Somerset County, C. C. Yates, 1907).—On the eastern shore of Tangier Sound, on the southeastern side of the entrance to Manokin River, on a small point ¼ mile south of Prickly Point, on a sandy spot about 5 feet above and 30 yards back from high-water mark on the west side and about 35 yards from the end of the point to the northwest. About 10 feet southeast of the station is a clump of myrtle bushes, and 7 to 18 yards back of these is a small group of pine trees. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to near-by points of reference are as follows: Tangent to point of land, ⅛ mile, 169° 37′; pine tree to left of two others, 1½ miles, 224° 27′; chimney on gray house, ¼ mile, 236° 55′; pointed cupola on building seen through trees, ¾ mile, 247° 27′; near end of roof of house, 1 mile, 249° 58′; nail in blaze in tree, 19.69 meters (64.6 feet), 265° 36′; left end of white house, 1¼ miles, 291° 19′; left end of roof of yellow house, ¾ mile, 298° 34′; nail in blaze in tree, 23.07 meters (75.7 feet), 323° 02′; chimney on gray house on next point, ⅝ mile, 0° 35′.

Joshua (Somerset County, C. C. Yates, 1907).—On the eastern shore of Tangier Sound, on the western side of Little Island, about ⅛ mile southeast from the extreme eastern point of the island. Station is on the northern half of a sand dune, about 10 feet above and 20 feet back from high-water mark. The southern half of the sand dune is covered with bushes and scrub trees. Center mark is nail in pine stub flush with ground; it is apt to be disturbed by shifting of sand dune. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 32.06 meters (105.2 feet) from the station, in azimuth 198° 00′; it is nearly on line with a large aspen tree, ¼ mile distant, in azimuth 197° 49′. The center point of square roof of house on Deal Island is distant 1¼ miles, in azimuth 167° 13′, while the distance and azimuth to a nail in blaze in 1½-inch peach tree is 30.74 meters (100.9 feet) and 328° 29′.

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Miles (Somerset County, C. C. Yates, 1907).—On the western shore of Tangier Sound, on the eastern side of the lower half of South Marsh, on a marsh point making out about 75 yards south of entrance to small creek, which is middle one of three on this shore of the island. Station is about 50 yards south of the north side and about 60 yards west of extreme end of point. A row of myrtle bushes stands east of the station. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16.

Bar (Somerset County, C. C. Yates, 1907).—On the eastern shore of Tangier Sound, on the western side of Deal Island, about 1 mile northwest of entrance to Lower Thoroughfare and ½ mile south of Middle Creek. Station is about 10 yards east of high-water mark, on sand and grassland back of sandy beach. The first of many tree stumps which are surbmerged at high water commence about 100 yards to the north of the station, and cat-tails grow abundantly back of station. Center mark is a nail in a pine stub flush with the ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 6.09 meters (19.98 feet) from the station, in azimuth 267° 30′. Other distances and azimuths are as follows: Flagpole on large building on Deal Island wharf, 2 miles, 189° 05′; middle chimney of large gray building, 1 mile, 198° 01′; chimney on white house, 400 yards, 220° 14′; middle chimney on red-roof white house, ⅜ mile, 240° 11′; chimney on white house, 400 yards, 279° 03′; chimney on dark-gray house, 300 yards, 322° 17′; right chimney on white four-gabled house with red roof, ½ mile, 336° 59′.

Senator (Somerset County, C. C. Yates, 1907).—On the western shore of Tangier Sound, on the southern side of Holland Straits and on extreme northeast point of South Marsh, on marshland about 35 yards from north side and about 30 yards from east side of point. Myrtle bushes skirt the shore, commencing due north, and two small pools of water are near station, one due south about 10 yards and the other southwest about 5 yards. No permanent reference points near station. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16.

Beacon (Accomac County, Va., C. C. Yates, 1907; 1916).—Between Tangier and Pocomoke Sounds, on a small island just north of Great Fox Island known as House Island, 100 yards south of extreme northern shore and about 30 yards from west shore of island. The shore of an inlet (now closed) which made into the eastern side of the island was about 15 feet northwest of the station. Station marked by center of 6-inch tile pipe set in cement and projecting about 6 inches above the ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 4.12 meters (13.52 feet) from the station, in azimuth 108° 18′. The center mark of station *Beacon (old)* (see index), a 2-inch iron pipe, is 7.26 meters (23.82 feet) from the station, in azimuth 9° 25′. The chimney on highest building on Fox Island is about 1¼ miles distant, in azimuth 340° 13′. (See also description of *Beacon (old)*.)

Horse (Accomac County, Va., C. C. Yates, 1907; 1916).—On the west side of Tangier Sound, eastern shore of Smith Island, at a point known as Horse Hammock, about 10 yards offshore in 2 feet of water at low tide, between shore and northernmost row of piling. In 1916 the station mark, a stake in the water, and the cement reference mark were reported as both being gone, but the witness marks were reported as in position, and from them the station can be reproduced closely enough for hydrographic purposes. Distances and azimuths of points of reference are as follows: Near corner of old cedar, 32.42 meters (106.4 feet), 46° 21′; blaze in tree, 14.21 meters (46.6 feet), 56° 00′; blaze in tree, 25.92 meters (85.0 feet), 66° 46′; reference station (cement monument, reported lost), 27.12 meters (89.0 feet), 74° 34′; blaze in poplar, 45.74 meters (150.1 feet), 75° 00′; pile extending above row of piles, 16.66 meters (54.7 feet), 209° 27′; high pile, 9.80 meters (32.15 feet), 233° 22′; high pile, 8.41 meters (27.6 feet), 275° 46′.

Crab (Dorchester County, C. C. Yates, 1907).—On the western shore of upper Tangier Sound, on eastern side of Bloodsworth Island, about 1 mile southeast of entrance to Piney Island Cove, 1 mile northeast of entrance to Great Cove, and 2⅝ miles southwest of Sharkfin Shoal Light. Station is about 1 foot above high water, 15 yards southwest of shore, 35 yards west of shore, and 150 yards south-southwest of crab house. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. The end of

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Deal Island Wharf, 3¾ miles distant, is in azimuth 278° 27'. A tall pine tree is distant 1½ miles, in azimuth 30° 25', from the station.

Frog (Dorchester County, C. C. Yates, 1907).—On the western side of the entrance to Nanticoke River, on Frog Point, at the southeastern end of Clay Island, on a marsh point about 20 yards west of shore, 25 yards east of shore, 25 yards from extreme end of point, and in front of water bushes. Center mark is nail in stub flush with ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 13.10 meters (43.0 feet) from the station, in azimuth 183° 11'. Other distances and azimuths are as follows: Left tangent of Clay Island, 1¼ miles, 76° 42'; right tangent of Sandy Point, ¾ mile, 219° 06'; chimney of house, 2½ miles, 220° 37'; chimney near end of large house, 2½ miles, 224° 27'; stack of canning house, 2½ miles, 226° 01'; end of Nanticoke wharf house, 2¼ miles, 227° 25'; chimney on ell of end of main part of large house, 2¼ miles, 252° 52'; Rock Creek poplar tree, 3½ miles, 325° 42'.

Head (Dorchester County, C. C. Yates, 1907).—In the upper end of Tangier Sound, on the eastern side of the southern part of a peninsula known as Bishop Head, situated between Hooper Strait and Fishing Bay. Station is on marsh behind water bushes which skirt the shore, about 15 yards southwest of shore and ½ mile north of extreme south end of Bishop Head. Station mark is nail in pine stub flush with the ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 13.41 meters (44.0 feet) from the station, in azimuth 79° 15'. Other distances and azimuths are as follows: Large pine tree, 2 miles, 37° 01'; near gable of 2½-story house, ¼ mile, 79° 43'; chimney of house, ⅛ mile, 96° 03'; chimney of house, 1½ miles, 147° 47'; chimney on end of house, 3 miles, 178° 12'.

Room (Somerset County, C. C. Yates, 1907).—At the upper end and on the eastern shore of Tangier Sound, on Halls Point, 5 yards back from the edge of a bluff 15 feet high. It is about 25 yards east of a clump of mulberry trees and about 15 yards north-northwest of a barn. Locust and mulberry trees stand all about the station, and locust bushes along the edge of the bluff. A wagon trail runs parallel to the shore about 15 yards back of the station. Station mark is a nail in center of a stub flush with the ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is almost in line with a large mulberry tree and is 21.45 meters (70.4 feet) from the station, in azimuth 18° 31'. Other distances and azimuths are as follows: Large cedar tree, 100 yards, 26° 30'; 2-inch iron pipe, 9.21 meters (30.22 feet), 29° 40'; near corner of barn 15.96 meters (52.4 feet), 247° 07'; right-hand corner of barn, 18.11 meters (59.4 feet), 262° 09'.

White (Wicomico County, C. C. Yates, 1907).—On the eastern shore of entrance to Nanticoke River, on the western part of Nanticoke Point, on a sand and grass point about 2 feet above high-water mark, 3 yards from the west side, 15 yards from the south end, and 20 yards from the southeast side. Dense pine woods stand about 100 yards to the northwest, open marsh to the northeast, and a clump of about a dozen pine trees in a marsh about ⅜ mile to the northeast. There is a cove about 40 yards east of the station and another point of land about 100 yards to the southeast. Station mark is a nail in a pine stub about 6 inches below the surface of the ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 16.63 meters (54.6 feet) from the station, in azimuth 183° 13'. Other distances and azimuths are as follows: Poplar tree at Dames Quarter, 2½ miles, 20° 52'; left end of pine woods, 100 yards, 128°; right end of pine woods, 150 yards, 169°; largest tree in a clump of about 12 pines, ⅜ mile, 203° 07'; chimney on cabin on Ellis Point, 2 miles, 234° 49'; white house, ⅛ mile, 167° 38'; point of land, 100 yards, 290° 46'.

Beacon (old) (Accomac County, Va., F. W. Perkins, 1898; 1916).—Between Tangier and Pocomoke Sounds, just north of Great Fox Island, on a small island called House Island, known locally as Blizzard Island. Station is about 100 yards south of extreme northern shore, about 30 yards from western shore, and 7.26 meters (23.82 feet) southeastward of station *Beacon* of 1907 (consult index). Station is marked by a 2-inch iron pipe projecting a few inches above the ground; the pipe is in bad condition. The remains of an old signal surround the station.

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Fox Island poplar (Accomac County, Va., C. C. Yates, 1907; 1916).—On the eastern shore of lower Tangier Sound, on the western side of Great Fox Island, about halfway between the northern and southern ends of the island. Station is center of a very prominent lone Lombardy poplar, situated on solid land, about ⅛ mile inshore from the sound.

Deal Island church spire (Somerset County, W. I. Vinal, 1901; 1907).—On Deal Island, on main road about ¼ mile from shore and about ¾ mile south of Laws Thoroughfare. Station is center of steeple of Deal Island Methodist Church spire, a square pyramidal spire, open below, and dark colored with metal ornament on top.

Deal Island colored church spire (Somerset County, W. I. Vinal, 1901).—Near the center of Deal Island, on eastern side of Tangier Sound. Station is center of short, square, unpainted steeple on M. E. Church (colored).

Pearl (Dorchester County, W. I. Vinal, 1901).—On western side of Tangier Sound and eastern shore of Bloodsworth Island, on middle point of Three Point Marsh. Ground at station submerged at high tide. Marked only by tripod signal.

Dames Quarter church spire (Somerset County, W. I. Vinal, 1901).—In the village of Dames Quarter. Station is white spire on the M. E. Church (colored).

Somers Cove Lighthouse (Somerset County, 1895; C. C. Yates, 1908).—In Little Annemessex River at entrance to Crisfield Harbor. Station is center of spindle on top of black lantern on square screw pile structure known as Somers Cove Light.

FISHING BAY

Bay (Dorchester County, W. I. Vinal, 1901).—On the eastern side of Fishing Bay, on point south of entrance to a small bay, about 2½ miles north of southwest point of Clay Island. Station is 5 meters back from high-water line. Marked only by a braced pole signal.

Rose (Dorchester County, W. I. Vinal, 1901; 1904).—On the west side of Fishing Bay, north of entrance to Goose Creek. Marked only by a braced pole signal.

Fish (Dorchester County, W. I. Vinal, 1901).—On the eastern side of Fishing Bay, on southwest side of Fishing Point, Elliott Island. Marked only by a braced pole signal.

Fish (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Fishing Bay, about 4¾ miles north of Sharkfin Shoal Light, 3¼ miles south-southeast of Elliott Island, and 2¼ miles north-northeast of point of Clay Island. Station is on marsh, about 1 foot above high water, 50 yards northeast of shore, 60 yards east of shore, and 85 yards north-northeast of shore. The station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. The subsurface mark is center of 2-inch draintile pipe, note 17. Distances and azimuths to points of reference are as follows: Center gable of house at Bishop Head,, 4¼ miles, 43° 55′; near peak of house, 4¼ miles, 65° 14′; chimney in middle of house, 3⅞ miles, 67° 20′; left chimney of house, 3 miles, 91° 57′; near peak of house, 3 miles, 101° 17′; stack of canning house on Elliott Island, 3½ miles, 148° 13′.

Croch (Dorchester County, C. C. Yates, 1910).—On the western shore of Fishing Bay, about 4½ miles northwest of Sharkfin Shoal Light, and ¼ mile north-northeast of entrance to Tedious Creek, on marsh, about 1 foot above high water, 45 yards southwest of shore, 50 yards west of shore, 60 yards northwest of shore, and 150 yards north of a small marsh island covered with water bushes. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. The subsurface mark is center of a 2-inch draintile pipe, note 17. Distances and azimuths to points of reference are as follows: Right peak of house, 1½ miles, 20° 26′; chimney in middle of large building, 1⅝ miles, 39° 53′; chimney in middle of house, 1½ miles, 53° 42′; near peak of house, ⅝ mile, 103° 32′; chimney on outside of right end of house, 1⅜ miles, 158° 30′; between two chimneys of house nearly in line, 1¼ miles, 165° 31′; near peak of house, 1 mile, 180° 09′; right chimney of house, 2⅛ miles, 357° 50′.

Ear (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Fishing Bay, about 6⅛ miles north of Sharkfin Shoal Light, 1¾ miles east-northeast

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of Roasting Ear Point, and 1¾ miles southeast of Fishing Point, on Elliott Island, on marsh land about 1 foot above high water, 20 yards northeast of shore, 30 yards north by west of shore, and 40 yards east by south of shore. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. The subsurface mark is center of a 2-inch draintile, note 17. Distances and azimuths to various points of reference are as follows: Chimney in middle of large building, 5 miles, 40° 32′; near peak of barn, 2½ miles, 64° 33′; stack of canning house at Elliott Island, 1½ miles, 140° 10′; chimney on right end of house, 1¼ miles, 145° 33′; near peak of house, 1¼ miles, 158° 14′; left peak of barn, 1¼ miles, 191° 56′.

Roast (Dorchester County, C. C. Yates, 1910).—On the western shore of Fishing Bay on Roasting Ear Point, about 5¾ miles north-northwest of Sharkfin Shoal Light, 4½ miles north of Bishop Head, and ¾ mile northeast of entrance to Goose Creek, on a marsh about 1 foot above high water, 40 yards northwest of shore, 40 yards west of shore, and 70 yards south by west of shore. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. The subsurface mark is center of 2-inch draintile, note 17. Distances and azimuths to various points of reference are as follows: Left chimney of house on Bishop Head, 4⅛ miles, 8° 24′; near peak of house, 3 miles, 23° 42′; chimney on left end of house, 2 miles, 47° 34′; smoke pipe on near house, 1⅜ miles, 51° 55′; tallest one of five pines, 1 mile, 73° 43′; stack of canning house on Farm Creek, 2½ miles, 129° 48′; stack of canning house on Elliott Island, 2 miles, 197° 52′; chimney on outside of near end of house, 1⅞ miles, 207° 54′; chimney in middle of house, 2 miles, 211° 20′; between two gables of large house, 2 miles, 214° 19′; windmill, 2 miles, 218° 23′.

Elliott (Dorchester County, C. C. Yates, 1910).—On the eastern shore of Fishing Bay, on Fishing Point, at the extreme western end of Elliott Island, and opposite the entrance to Farm Creek, on sandy marsh about 1 foot above high water, 16 yards south of shore, 20 yards north of shore, 30 yards east-northeast of extreme end of sandy point, 185 yards west-southwest of sand ridge near trees and brush, and 290 yards northwest of a canning house. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. The subsurface mark is center of 2-inch draintile, note 17. Distances and azimuths to various points of reference are as follows: Small house in trees, 2⅝ miles, 39° 30′; chimney on right end of house, 2 miles, 79° 06′; tangent of high bluff, ¼ mile, 240° 42′; left edge of old building, 323° 35′; stack of canning house at Elliott Island, 290 yards, 339° 41′.

Farm (Dorchester County, C. C. Yates, 1910).—On the western shore of Fishing Bay, on point on south side of entrance to Cedar Creek, about 1⅝ miles west of Fishing Point, and ¾ mile northeast of entrance to Farm Creek, on marsh about 1 foot above high water, 20 yards south of shore, 60 yards northwest of shore, 45 yards west-southwest of extreme end of point, 10 yards east-northeast of small pond in marsh, and 300 yards south by east of a small oyster watch house on opposite side of Cedar Creek. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. The subsurface mark is center of a 2-inch draintile, note 17. Distances and azimuths to various points of reference are as follows: Near peak of house, 2¼ miles, 8° 19′; chimney in middle of house, 2 miles, 50° 00′; stack of canning house on Far Creek, 1½ miles, 55° 28′; near corner of small shanty, ½ mile, 97° 10′; smoke pipe of small shanty, ¾ mile, 130° 09′; left chimney of house, 4⅞ miles, 250° 31′; stack of canning house at Elliott Island, 1¾ miles, 285° 26′.

Thoro (Dorchester County, C. C. Yates, 1910).—On the western shore of Fishing Bay, about ¾ mile northeast of entrance to Thoroughfare Creek and 1½ miles north of Fishing Point, the western end of Elliott Island, on marsh about 1 foot above high water, 40 yards northwest of shore, 50 yards north-northeast of shore, 55 yards northeast by north of shore, and 130 yards east-northeast of entrance to small creek. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. The subsurface mark is center of 2-inch draintile, note 17. Distances and azimuths to various points of reference are as follows: Chimney in center of house, 3 miles, 50° 38′; lone poplar tree, 2 miles, 310° 44′; chimney on right end of house, 2 miles, 319° 32′; lightning rod on near peak of large house, 1¾ miles, 323° 05′; spire of church on Elliott Island, 1¾ miles, 329° 22′; center one of three chimneys in a row, 1¾ miles, 330° 24′; stack of canning house on Elliott Island, 1½ miles, 354° 31′.

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High (Dorchester County, C. C. Yates, 1910).—On the southeastern shore of the upper part of Fishing Bay, on Elliott Island, about ⅜ mile east-northeast of extreme end of Fishing Point, on high sandy land in a grove of pine trees, about 30 yards east-southeast of edge of bank, and 35 yards west-northwest of near corner of west one of five sheds in a row. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. The subsurface mark is center of 2-inch drain-tile, note 17. Distances and azimuths to various points of reference are as follows: Right chimney of house, ⅜ mile, 10° 04′; nail in blaze in 15-inch pine tree, 10.28 meters (33.7 feet), 47° 48′; nail in blaze in 18-inch pine tree, 17.83 meters (58.5 feet), 269° 25′; nail in blaze in 12-inch pine tree, 5.58 meters (18.31 feet), 315° 07′; near corner of shed with metal roof (west one of five in a row), 33 yards, 330° 46′; left chimney of house, 100 yards, 352° 42′.

Toddville M. E. Church spire (Dorchester County, C. C. Yates, 1910).—On the neck of land between Fishing Bay and Honga River, in the town of Toddville. Station is center of spire of church known as the Toddville M. E. Church.

NANTICOKE RIVER

Mulberry (Dorchester County, W. I. Vinal, 1901).—On the west side of Nanticoke River, on Gravelly Point, about 1 mile north of Mulberry Point. Station marked by nail in pine stub inside 4-inch tile pipe, 2 feet long, set in cement, flange end down.

Roar (Wicomico County, C. C. Yates, 1907).—On the eastern shore of Nanticoke River, on point of land known as Roaring Point, and about ¼ mile north from outer end of Roaring Point Wharf. Station is 30 yards east of extreme end of point, and on a sandy knoll about 5 feet above high-water mark. It is 20 yards back from high-water mark on the north side and about 40 yards back from high-water mark on the south side of the point. Pine woods stand about 150 yards inshore from the station. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Two shanties, 2 miles, 58° 19′; shanty, 1¾ miles, 69° 22′; shanty, 1¼ miles, 110° 34′; white shanty, 1¾ miles, 137° 55′; white shanty behind station *Okay*, 2¾ miles, 160° 27′; twin trees on Ragged Point, 2 miles, 198° 32′; chimney on white house, 1½ miles 214° 25′; windmill, 1 mile, 223° 06′; gambrel roof house, 1 mile, 223° 34′; white canning house stack, ½ mile, 234° 13′; land end of wharf, ¼ mile, 311° 00′; large house, 1½ miles, 332° 40′; right tangent of Nanticoke Wharf, ⅜ mile, 343° 54′.

Cow (Dorchester County, C. C. Yates, 1907).—On the western shore of Nanticoke River, on Mink Point, about ⅜ mile east of entrance to Cow Creek and 1⅜ miles west of Roaring Point, on very soft marsh at edge of water bushes about 5 yards west of shore, 15 yards northeast of shore, and 15 yards northwest of extreme end of point. Station mark is nail in pine stub flush with ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 8.68 meters (28.48 feet) from the station in azimuth 135° 32′. Other distances and azimuths are as follows: A shanty, ¾ mile, 43° 29′; shanty, 1 mile, 196° 06′; shanty, ½ mile, 216° 05′; tangent of land, ½ mile, 223° 56′; large house, 2½ miles, 243° 01′; windmill, 2¾ miles, 250° 05′; chimney of large house, 2¼ miles, 260° 37′; canning house stack, 1¾ miles, 263° 41′; canning house stack, 1½ miles, 281° 39′; near corner of Nanticoke Wharf, 1½ miles, 291° 02′; large house, 2½ miles, 303° 45′; large house, 2½ miles, 305° 37′.

Rag (Wicomico County, C. C. Yates, 1907).—On the eastern shore of Nanticoke River, on northern side of Ragged Point, on a sandy point about 25 yards back from high-water mark and 100 yards northeast from extreme end of point. A grove of pine trees stands about 50 yards to the east and two groups of pine trees about 20 to 75 yards to the northeast. Two pine trees each about 15 inches in diameter and 2½ feet apart stand about 20 yards to the east of the station. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney on house near station *Cow*, 2½ miles, 50° 02′; large tree at left end of woods, 3¼ miles, 128° 34′; left one of two trees (opposite shore), 3¼ miles, 168° 10′; smoke pipe on Bivalve Wharf house, 1¼ miles, 205° 28′; nail in stump of limb on pine tree, 32.78 meters

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(107.5 feet), 216° 49′; nail in blaze in double pine tree, 19.66 meters (64.5 feet), 256° 15′; nail in blaze in large pine tree, 43.19 meters (141.7 feet), 291° 40′; chimney on white house, 135 yards, 301° 43′; windmill near large barn, ¾ mile, 342° 27′; steeple on barn, 1 mile, 354° 54′; large chimney on large flat-roof house, 1 mile, 355° 24′.

Okay (Dorchester County, C. C. Yates, 1907).—On the western shore of Nanticoke River, on Marsh Point, about ⅛ mile south of Swan Creek Cove and 2 miles west of Bivalve Wharf, on marsh about 2 feet above high water, 10 yards back from shore, and 35 yards south of shanty known as Insley's watch house. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney of house, 2½ miles, 285° 10′; windmill tower, 2½ miles, 311° 13′; tangent of land, 1¼ miles, 356° 55′; tangent of land, 150 yards, 10° 17′; left side of watch house, 35 yards, 153° 49′; right side of watch house, 35 yards, 162° 49′; tangent of Bivalve Wharf, 2¼ miles, 260° 03′; stack of canning house, 2¼ miles, 263° 44′.

Nanti (Wicomico County, C. C. Yates, 1907).—On the eastern side of entrance to Nanticoke River, about ½ mile northwest of Nanticoke Point, on grassy land about 2 feet above and 20 yards back from high-water mark. It is about midway between edge of woods on Nanticoke Point and unpainted house near poplar ¼ mile to north. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Poplar tree at Dames Quarter, 2¾ miles, 12° 42′; left end of Nanticoke Wharf, 2 miles, 154° 59′; near chimney of red roof house, ¾ mile, 162° 05′; chimney of unpainted house, ¼ mile, 166° 22′; near chimney of house nearest woods, ¼ mile, 182° 10′; wild cherry tree, 50 yards, 243° 38′; left end of woods, ¼ mile, 293° 00′; right end of woods, ¼ mile, 335°.

Pole (Wicomico County, C. C. Yates, 1907).—On the eastern shore of Nanticoke River, on wharf off town of Bivalve, about 1¼ miles northeast of Ragged Point. Station is flagpole on western peak of wharf house about 300 yards from shore.

Ar (Dorchester County, C. C. Yates, 1907).—On the western shore of Nanticoke River, about 1½ miles northwest of Bivalve Wharf, and ¾ mile north-northeast of entrance to Longwell Creek. Station is on marsh between two small creeks about 40 yards back from shore, 35 yards west-southwest of mouth of one creek, and 45 yards northwest of the mouth of the other creek. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Smoke pipe of cabin, 1½ miles, 29° 23′; chimney of house, ½ mile, 32° 52′; chimney of cabin, ½ mile, 234° 13′; house with several gables, 3 miles, 248° 44′; chimney of house behind trees, 2 miles, 289° 09′; windmill, 2 miles, 305° 29′; stack of canning house, 2 miles, 306° 41′; chimney of house on Ragged Point, 2¼ miles, 336° 59′; windmill, 3¼ miles, 339° 23′.

Juliet (Wicomico County, C. C. Yates, 1907).—On the eastern shore of Nanticoke River, on sand and marsh point about 100 yards southwest of entrance to Wetipquin Creek, 10 yards back from high-water mark and about 5 yards outside of several small pine trees. Very dense pine woods stand about 100 yards to the south of the station. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Right tangent of Bivalve Wharf, 1½ miles, 31° 06′; two-story white house, 2½ miles, 71° 10′; two-story white house with red roof, ¾ mile, 89° 41′; gray house at Jacks Creek, 1¾ miles, 185° 04′; tangent of land, 150 yards, 215° 53′; nail in blaze in pine tree, 4.92 meters (16.14 feet), 250° 45′; near point of roof of oyster house, 300 yards, 261° 09′; nail in blaze in pine tree, 6.31 meters (20.7 feet), 292° 21′; nail in blaze in pine tree, 6.88 meters (22.57 feet), 319° 24′.

Gover (Dorchester County, C. C. Yates, 1907).—On the northwestern shore of Nanticoke River, about 1¾ miles west-northwest of entrance to Wetipquin Creek, and ⅛ mile north of cove named Perch Haul, on a point of marsh covered with grass and water bushes, about 15 yards northwest of extreme end of point, 200 yards east-northeast of shanty among bushes and small trees, ¼ mile east of clump of about 50 pine trees, and ¼ mile southeast of another clump of trees. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to

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various points of reference are as follows: Tangent of land, 1 mile, 13° 54′; two pine trees together, ¾ mile, 61° 37′; center of shanty, 200 yards, 76° 56′; clump of pine trees, ¼ mile, 102° 26′; clump of pine trees, ¼ mile, 154° 50′; inside edge of cove, 100 yards, 180°; clump of small pine trees, ¼ mile, 234° 01′; tangent of point of land, 1½ miles, 248° 05′; left tangent of Sandy Hill wharf, 3 miles, 254° 32′; large house, 3¼ miles, 264° 57′.

Earle (Wicomico County, C. C. Yates, 1907).—On the southeast shore of Nanticoke River, about 1 mile below Sandy Hill wharf, on sand and grass land between river and pine grove, about 80 yards back from and 5 feet above high-water mark. A shanty stands about 20 yards to the west and a sand beach is northwest of the station. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to points of reference are as follows: Nail in blaze in pine tree, 19.05 meters (62.5 feet), 201° 44′; nail in blaze in 2½-foot oak tree, 13.95 meters (45.8 feet), 237° 41′; nail in blaze in pine tree, 15.76 meters (51.7 feet), 7° 06′; right tangent of woods on other side of Wetipquin Creek, 1½ miles, 39° 57; nail in blaze in 2½-foot white oak tree, 13.98 meters (45.9 feet), 129° 49′.

Street (Dorchester County, C. C. Yates, 1907).—On the northwestern shore of Nanticoke River, on marsh and grass point on southwest side of entrance of Jakes Creek, about 7 yards west from its extreme end and 4 yards from each side of point to north and south. Station mark is nail in pine stub flush with ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 11.89 meters (39.0 feet) from the station in azimuth 119° 38′. Other distances and azimuths are as follows: Point of marsh, 100 yards, 2° 32′; first of four trees, ½ mile, 90° 00′; point of marsh, 30 yards, 210°; house on other side of Jakes Creek, ⅛ mile, 213° 12′; left tangent Sandy Hill wharf, 1¼ miles, 264° 37′; house, 1½ miles, 273° 07′; shanty, 1 mile, 315° 40′; large house, 2½ miles, 342° 07′; canning house stack at Tyaskin, 1¾ miles, 348° 41′; large building, 1¾ miles, 351° 41′.

Bivalve church (Wicomico County, W. I. Vinal, 1901; 1907).—On the eastern shore of Nanticoke River, in the town of Bivalve, about ⅜ mile back from the shore, on main road leading to steamer landing. Station is center of steeple on Bivalve Methodist Church, a short, square pyramid, with unpainted shingles.

Nanticoke church (Wicomico County, W. I. Vinal, 1901; 1907).—On the eastern shore of Nanticoke River, in the town of Nanticoke, about ¼ mile back from the river. Station is center of spire of church known as "Nanticoke Methodist Episcopal Church."

WICOMICO RIVER

Long (Somerset County, W. I. Vinal, 1901).—On Long Point, at south side of entrance to Monie Bay and west side of entrance to Dames Quarter Creek, about ¼ mile east of Dames Quarter Wharf, on a sand beach and 10 meters back from high water mark. Station marked by a draintile pipe.

Pigeon (Somerset County, W. I. Vinal, 1901).—On south side of Monie Bay, on point at eastern side of entrance to Pigeon Creek. Marked only by braced pole signal.

Stump 2 (Dorchester County, W. I. Vinal, 1901).—On southwest side of Nanticoke River, on Stump Point, at the junction of the Nanticoke and Wicomico Rivers, 4 meters back from high-water mark and about 150 meters southeast of point of pine woods. Station marked by nail in pine stub inside a 4-inch tile pipe, 2 feet long, set in cement, flange end down.

Ellis (Wicomico County, W. I. Vinal, 1901).—On north side of Wicomico River, on point at east side of entrance to Ellis Bay. Marked only by a braced pole signal.

Wingate (Somerset County, W. I. Vinal, 1901).—On northwest side of Wingate Point, between Monie Bay and Wicomico River. Station marked by a draintile pipe.

Monie (Somerset County, W. I. Vinal, 1901).—On southern side of Monie Bay, about one-half mile west of entrance to Little Monie Creek. Marked only by a braced pole signal.

Ballard (Somerset County, W. I. Vinal, 1901).—On the southern side of Wicomico River, about 1 mile northeast of Wingate Point. Marked only by a braced pole.

Short (Somerset County, C. C. Yates, 1907).—On Long Point, on the southern side of the entrance to Monie Bay and Wicomico River, about 1 mile south-

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southwest of Great Shoals Light, on a sandy knoll on western side of entrance to Dames Quarter Creek, about 15 feet back from high-water mark on the north side and 30 feet from the east side of the point. Station is on highest part of the knoll, about 5 feet above high water. The station mark is the center of standard concrete monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various references are as follows: Chimney on white barn, 300 yards, 8° 48′; left chimney on white house, 200 yards, 49° 08′; chimney on yellow house, 200 yards, 70° 38′; Nanticoke wharf, 4⅛ miles, 157° 00′; chimney on red roof white house, 3 miles, 221° 42′; chimney on red trimmed house, 2 miles, 301° 52′; left tree at Dames Quarter, ¼ mile, 349° 40′.

Dove (Somerset County, C. C. Yates, 1907).—On the south shore of Monie Bay, about ¼ mile east of entrance to Pigeon Creek, on marsh land about 10 yards back from high-water mark and not far from water bushes which stand to east. Station mark is nail in pine stub flush with ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 13.98 meters (45.9 feet) from the station in azimuth 324° 55′. Other distances and azimuths are as follows: Chimney of white house with dark red trimmings, 1¼ miles, 7° 40′; left side of Nanticoke Point woods, 2¾ miles, 129° 15′; tangent of Wingate Point, 2 miles, 175° 11′; chimney of red roof, 2 miles, 189° 58′; chimney on yellow house with red gable roof, 3 miles, 206° 31′; Mount Vernon Church, 3¼ miles, 208° 56′; tangent of land, 300 yards, 228° 57′.

Wind (Somerset County, C. C. Yates, 1907).—On the southeast shore of Wicomico River, about ¼ mile north of southern end of Wingate Point, about 30 yards from high-water mark to the north and 20 yards from high-water to the west. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney on 2½-story house, 3 miles, 18° 47′; chimney on end of white house, Dames Quarter, 2½ miles, 27° 26′; tangent of Mollies Point, 1 mile, 70° 04′; left end of woods, 1¾ miles, 82° 41′; right end of woods, 1¾ miles, 88° 14′; tangent of Ellis Point, 1 mile, 139° 16′; white house in woods, 3 miles, 193° 48′; smoke pipe on watch house, 100 yards, 222° 18′; chimney of brown house, ½ mile, 240° 07′; chimney of cream-colored house with brown trimmings, ½ mile, 252° 03′; watch house, ¼ mile, 345° 10′.

Little (Somerset County, C. C. Yates, 1907).—On the southern shore of Monie Bay, on second prominent marsh point about ¼ mile west from the entrance to Little Monie Creek. The marsh point is covered with water bushes and reeds. The station is about 1 foot above high-water mark, 7 yards from the west side, 10 yards from the east side, and about 50 yards from extreme end of point. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Tangent of point of land, 75 yards, 43° 59′; tangent of Wingate Point, 1½ miles, 118° 22′; chimney on red roof of white house, 1½ miles, 143° 56′; chimney on near end of white house with brown trimmings, 1½ miles, 145° 45′; chimney on red roof of white house with green blinds, 1½ miles, 146° 26′; left chimney of yellow house trimmed white, 1½ miles, 163° 35′; large brown house, 1¾ miles, 177° 38′; Mount Vernon Church, 1¾ miles, 186° 25′; tangent of point of land, ¼ mile, 249° 30′.

Ella (Wicomico County, C. C. Yates, 1907).—On the north shore of Wicomico River, on the marsh point on the east side of entrance to Ellis Bay, about 1 foot above high-water mark. It is about 10 yards back from shore to west, *20 yards back from shore to south, and 20 yards back from shore to north.* Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Tangent of land on Mollies Point, 1 mile, 15° 02′; watch house, ½ mile, 35° 58′; chimney of white house, 2 miles, 145° 33′; chimney of gray house, 2 miles, 152° 31′; chimney of white house, 200 yards, 259° 15′; chimney on middle of white house, 1¼ miles, 284° 16′; chimney on cream and brown house, 1 mile, 300° 37′; chimney on brown house, 1 mile, 300° 51′; smoke pipe of watch house, 1 mile, 316° 45′.

Ball (Somerset County, C. C. Yates, 1907).—On the southeast shore of Wicomico River, about 1 mile northeast of Wingate Point, on a sand and grass point making out about 100 yards west of a sand bluff. A small creek empties into the river about 10 yards to the east, and three poplars stand

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about 100 yards to the south. The extreme northern end of the point is about 35 yards from the station, and western side is about 10 yards distant. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney on white house, ¼ mile, 343° 29′; third poplar, 100 yards, 9° 01′; chimney of brown house, ½ mile, 48° 24′; middle one of five pines, 100 yards, 267° 06′; chimney on John Withlock's house, 100 yards, 297° 54′; left end of pine woods, ½ mile, 305° 30′; right end of pine woods, ½ mile, 325° 01′.

Holland (Wicomico County, C. C. Yates, 1907).—On the north shore of the Wicomico River, on Holland Point, about 1¼ miles east of Ellis Bay. Station is on a marsh point about 20 yards north of high-water mark on extreme end of point and 100 yards west of a creek. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney of house near Ellis Bay, 1¼ miles, 74° 54′; chimney of cabin, 200 yards, 84° 49′; chimney on left end of large red-roof building, 3 miles, 120° 31′; large chimney on white house, 1¾ miles, 217° 06′; chimney of slate-colored house, 1¼ miles, 259° 18′; chimney on middle of light-blue house, 1 mile, 269° 23′; chimney on 2½-story light-green house, ¾ mile, 295° 16′; right chimney on white house, ½ mile, 346° 04′.

Ivee (Somerset County, C. C. Yates, 1907).—On the southeast shore of Wicomico River, about ¼ mile northwest of Mount Vernon Church, on grassland about 1 foot above and 10 feet back of high-water mark. A small cove makes in about 100 yards east of station. A small lone pine stands about 110 yards to the east-southeast and a sand bluff with pine trees about 100 yards to the southwest. Beyond the woods along the beach is a bluff 15 feet high, upon which are several houses. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to points of reference are as follows: White-house chimney, ¼ mile, 32° 57′; chimney on end of white house, 2 miles, 187° 17′; chimney of green-trimmed house near station *Creek*, 1¼ miles, 222° 50′; old-style windmill, 2⅛ miles, 242° 09′; slate-colored house, ½ mile, 253° 44′; chimney on middle of white house beyond woods, 1 mile, 274° 33′; lone pine tree, 110 yards, 295° 15′.

Mount Vernon church (Somerset County, W. I. Vinal, 1901; 1907).—On the southeast side of Wicomico River, about ⅜ mile back from the shore and 1½ miles southwest of Mount Vernon Wharf, on the main road in Mount Vernon and on the highest point in the vicinity. Station is center of steeple on Mount Vernon Methodist Church.

Child (Wicomico County, C. C. Yates, 1907).—On the north shore of Wicomico River, about ⅞ mile north of Mount Vernon Church, on marshland about 2 feet above and 15 yards back from high-water mark. There is an old wharf about 300 yards to the east, and at a point about 100 yards to the north two creeks join to form a single creek about 20 feet wide, which flows into the river at a point about 15 yards west of the station. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney on white house on sand bluff on opposite shore, ⅝ mile, 5° 17′; smoke pipe on large white house, ¾ mile, 9° 40′; chimney on brown house, 1½ miles, 37° 59′; fork of creek, 100 yards, 173°; chimney of large house, 2 miles, 196° 24′; chimney of another large house, ¾ mile, 228° 28′; Mount Vernon Wharf smoke pipe, 1½ miles, 282° 57′; large white house in woods, ¾ mile, 313° 48′; cream-colored house in woods, ½ mile, 335° 32′; chimney on white house in woods on opposite shore, ¾ mile, 353° 08′.

Jones (Somerset County, C. C. Yates, 1907).—On the south shore of Wicomico River, about ¾ mile west of Mount Vernon Wharf, on a knoll about 25 feet above and 30 yards south of high-water mark, and about 200 yards east of a cove. The knoll on which the station stands is the highest point in this locality. Several small cabins stand to the northward about 25 yards, and a large lone cedar tree is about 35 yards distant to the southwest. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Weeping willow, ¼ mile, 26° 49′; nail in blaze in cedar tree, 31.10 meters (102.0 feet), 37° 24′; large square chimney on four-gable house, ¼ mile, 88° 59′; cedar tree, 25 yards, 90° 16′; nail in blaze in cedar tree,

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20.30 meters (66.6 feet), 141° 20′; chimney on light-green house on opposite shore, ¾ mile, 181° 27′; white cupola in Whitehaven, 2¼ miles, 227° 47′; old style windmill, 1½ miles, 232° 25′; Whitehaven Hotel chimney, 2¼ miles, 234° 42′; large chimney on yellow house, ¼ mile, 257° 31′; chimney on end of brown house, ½ mile, 295° 31′; chimney on white house, ¼ mile, 345° 36′.

Creek (Wicomico County, C. C. Yates, 1907).—On the north shore of Wicomico River, about ¾ mile northwest of Mount Vernon Wharf and about 1⅜ miles northeast of Mount Vernon Church, on a marsh grass and sand point making out to the south, and about 10 yards from high-water mark on each of the three sides of the point. About 10 yards west of the station is the mouth of a creek or drain 10 feet wide which runs only a short distance inland. There are several unpainted houses within 200 yards of observed station, and a lone pear tree stands about 200 yards to the north. There is a cultivated field about 150 yards back of the station extending to the edge of the woods ¼ mile distant. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney on slate-colored house, ¾ mile, 23° 36′; chimney on light-blue house with red blinds, 1¼ miles, 44° 25′; lone tree, 1 mile, 103° 38′; chimney on old unpainted house, 300 yards, 138° 57′; chimney on light-green trimmed house, 200 yards, 165° 54′; pear tree, 200 yards, 190° 27′; left chimney of cream-colored house, 300 yards, 248° 45′; tangent of cove, 30 yards, 255°; smoke pipe on Mount Vernon Wharf, ¾ mile, 313° 13′; chimney on outside of yellow house, ⅝ mile, 342° 43′.

End (Wicomico County, C. C. Yates, 1907).—On the north shore of Wicomico River, opposite Mount Vernon Wharf, on marsh land, about 3 feet above and 100 yards north of high-water mark in river and about 75 yards to the northwest of a large creek which extends about 2 miles inland. Water bushes skirt shore around the station. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Stack of Dashiell's canning house, ⅜ mile, 5° 25′; middle attic window of white house, ½ mile, 29° 27′; chimney on outside of yellow house, ½ mile, 52° 45′; chimney on white house, 1 mile, 67° 57′; tangent of land, 1 mile, 73° 01′; near chimney of cream-colored house, ½ mile, 128° 58′; cupola on red barn, ¾ mile, 215° 54′; old style windmill, ¾ mile, 223° 59′; chimney of Whitehaven Hotel, 1¼ miles, 231° 42′; Webster's canning house, ½ mile, 313° 01′; right-hand chimney on gray house, ½ mile, 334° 15′; left side of Mount Vernon Wharf, ¼ mile, 354° 46′.

Walnut (Somerset County, C. C. Yates, 1907).—On the south shore of Wicomico River, about 175 yards east of Mount Vernon Wharf, on marsh land, about 17 feet from shore and 50 yards west of small creek. Several large walnut and locust trees stand about 250 yards south of station and 2 houses and 2 sheds about 250 yards to the southwest. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney of Whitlock's house, 250 yards, 31° 26′; stack of Dashiell's canning house, 400 yards, 76° 12′; right side of Mount Vernon Wharf house, 175 yards, 101° 07′; chimney outside of white house, 1 mile, 130° 41′; left chimney of gabled house, 1 mile, 137° 36′; old style windmill, ½ mile, 204° 49′; left end of roof of Whitehaven Wharf, 1½ miles, 220° 07′; chimney of Whitehaven Hotel, 1½ miles, 220° 29′; opening between two pine trees near Whitehaven, 1½ miles, 224°; stack of Webster's canning house, 300 yards, 271° 27′; opening between two walnut trees, 200 yards, 358°.

MANOKIN RIVER

Kelley (Somerset County, W. I. Vinal, 1901; 1907).—On the northern shore of Manokin River, on Kelley Island, which is located off the point between Fishing Creek and Laws Thoroughfare and just inside the entrance to the latter. Station is on small point making off southern side of this marsh island, it is 8 yards from the east side and 12 yards from west side of point. Myrtle bushes grow about 5 yards to west and north of observed station and a crab shanty stands on the northern end of the island about 100 yards from the station in azimuth 182° 48′. Station mark is center of a square wooden box, made to receive a 4-by-4 inch pole, set upright with top just above surface of

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ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 10.44 meters (34.3 feet) from the station in azimuth 213° 16′. Other distances and azimuths are as follows: Aspen tree near station *Joshua*, 2½ mile, 59° 51′; chimney on very large white house on Deal Island, 2 miles 97° 10′; pine to left of two others, 3¾ miles, 307° 57′; left end of new house, 4 miles, 312° 56′.

Marsh (Somerset County, W. I. Vinal, 1901; 1907).—On the northern shore of Manokin River, on a small marshy island on eastern side of entrance to Fishing Creek, 25 feet from south side, 30 feet from northeast side, and 10 feet from west side of island. Station mark is nail in pine stub in center of wooden box made to receive 4-by-4 inch signal pole. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. It is 24.34 meters (79.9 feet) from the station in azimuth 157° 34′. Other distances and azimuths are as follows: Right side of house on Deal Island, 2½ miles, 78° 22′; chimney of cabin in woods, 2½ miles, 241° 49′; right-hand end of crab house, ¾ mile, 271° 34′; pine to left of two other pines, 2¾ miles, 326° 57′.

St. Pierre (Somerset County, W. I. Vinal, 1901; 1907).—On a small marsh island in Manokin River, known as St. Pierre Island, about 20 yards from the shore to the west and about 30 yards from the shore to the south. A clump of myrtle bushes stands about 15 yards northwest of the station, and the shore of a small bay is 30 yards to the east. Station mark is nail in pine stub in center of wooden box made to receive 4-by-4 inch signal pole. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 7.97 meters (26.15 feet) from station in azimuth 300° 10′, being directly in range with *Fairmount Church* (see below). Other distances and azimuths are as follows: Left end of roof of white house, 1⅞ miles, 1° 19′; left end of crab house near Muddy Cove, 1¾ miles, 128° 24′; chimney on cabin, 1¼ miles, 199° 04′; chimney on Muir's store, 2¼ miles, 241° 32′; right-hand chimney on yellow house, 4 miles, 253° 54′; chimney on house with two ells, 1¾ miles, 357° 25′; pine tree to left of two others, 2 miles, 359° 02′.

Jean (Somerset County, C. C. Yates, 1907).—On the northern shore of Manokin River, on a low marsh point on west side of entrance to Geanquakin Creek, 35 yards back from extreme end, 30 yards from east side, and 40 yards from north side of point. Pine woods stand about ⅛ mile back from station. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney on cabin standing near two others, ¾ mile, 106° 35′; left end of cabin in woods, 1¼ miles, 198° 52′; chimney of William Muir's store, 1¼ miles, 261° 54′; chimney of house near station staff, 1¼ miles, 319° 32′.

Fairmount church spire (Somerset County, W. I. Vinal, 1901; 1907).—In the town of Upper Fairmount, about halfway between Manokin and Big Annemessex Rivers. Station is center of tall tapering spire on Fairmount Methodist Church.

Sandy (Somerset County, C. C. Yates, 1907).—On the northern shore of Manokin River, opposite Fishing Island, on a point of land known as Sandy Point, 10 yards back from high-water mark on south side, 75 yards back from high-water mark on west side of point, and 5 feet above high-water mark. A sandy beach is building out to southward and a heavy clump of myrtle bushes extends from a point about 25 yards west to a point about 75 yards west. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney on William Muir's store, ¾ mile, 129° 48′; chimney on store cabin, ⅝ mile, 188° 24′; right end of roof, 1 mile, 246° 09′.

Green (Somerset County, C. C. Yates, 1907).—On the eastern shore of the upper part of Manokin River, about ¼ mile north of entrance of Back Creek, on grassy land about 10 yards east of a sandy beach adjoining a marsh point, and about 3 yards north of curve in road. Two small locust trees stand about 3 yards distant, one to the northwest and the other to the east of the station. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Nail in blaze in 10-inch cedar tree, 8.90 meters (29.20 feet), 1° 02′; left chimney of white house, ¾ mile, 26° 52′; William Muir's store chimney, 1¾ miles, 103° 48′; nail in blaze in 3-inch tree, 3.65 meters (11.98 feet), 125° 54′; chimney on white house, ¾ mile, 145° 04′; tangent to point of land, 100 yards, 160° 11′.

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Cox (Somerset County, C. C. Yates, 1907).—On the eastern shore of the upper part of Manokin River, on a marsh point about ¾ mile north of entrance to Back Creek, about 15 yards east and 10 yards south of high-water mark. A small building stands in the water about 20 feet from bank to northeast of station, and Bennett's oyster watch house is about 15 yards east of station. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney of white house, ¾ mile, 127° 01′; west corner of roof of brick house on opposite shore, ¾ mile, 167° 07′; cabin, ⅛ mile, 205° 07′; left corner of watch house, 17.20 meters (56.4 feet), 282° 19′; near corner of watch house, 14.13 meters (46.4 feet), 290° 32′.

Locust (Somerset County, C. C. Yates, 1907).—On the western shore of the upper part of Manokin River, about ¼ mile north of Locust Point, on marshland about 12 yards west from shore of river and about 12 yards north from a small creek. Myrtle bushes extend alongside of river and creek. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station are as follows: Chimney on white house, ⅝ mile, 206° 32′; chimney on cabin near station *Wab*, 1¼ miles, 231° 34′; chimney of cabin near station *Cox*, ⅝ mile, 274° 34′.

Fitz (Somerset County, C. C. Yates, 1907).—On the northwestern shore of the upper part of Manokin River, about 1 mile northeast from Locust Point, on the edge of the lawn of a large old red brick house owned by a Mr. Fitzgerald, about 4 yards west of shore and 23 yards southwest of extreme end of point. Four locust trees, each 8 inches in diameter, stand back of station, and there is a cobblestone about 12 inches in diameter about 2 yards to the east. There is a small pond 20 yards to the north of the station. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney of white house, ½ mile, 49° 25′; nail in blaze in 8-inch locust tree, 5.42 meters (17.78 feet), 115° 52′; near corner of brick house, 100 yards, 150° 24′; nail in blaze in 8-inch locust tree, 6.24 meters (20.47 feet), 219° 42′; chimney of unpainted house, ½ mile, 234° 52′; chimney of cabin near station *Wab*, ½ mile, 248° 42′.

Wab (Somerset County, C. C. Yates, 1907).—On the north shore of upper part of Manokin River, on western side of entrance to Goose Creek, on a shell and marsh point, about 10 feet back from both sides of point and 3 feet above high-water mark. A small shanty stands directly west of the station. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Left-hand corner of shanty, 19.46 meters (63.8 feet), 78° 29′; next corner of shanty, 18.77 meters (61.6 feet), 89° 26′; chimney of two-story unpainted house, 250 yards, 106° 18′; lone pine, 250 yards, 163° 35′; chimney on middle of red roof on white house east, ½ mile, 253° 02′; easterly chimney of white house on opposite shore, ½ mile, 278° 43′.

Staff—Flagstaff Coxs Wharf (Somerset County, C. C. Yates, 1907).—On the southern shore of Manokin River, on eastern side of entrance to Broad Creek, about ¼ mile southeast of Cormal Point. Station is flagstaff on eastern end of roof of oyster house on Coxs Wharf.

Pole in pines (Somerset County, W. I. Vinal, 1901).—A flagpole in apparent center of a notable clump of pine trees on the south side of Manokin River, east of Drum Point Cove.

Nest (eagle's) (Somerset County, W. I. Vinal, 1901).—On the southeast side of Manokin River, on Prickly Point. An eagle's nest in a tall pine tree.

Monie-Bethel Chapel spire (Somerset County, W. I. Vinal, 1901).—In the village of Haliday, on the road between Monie and Bethel, and about 1⅛ miles west of Monie. Station is tall white spire on Methodist Episcopal Church.

Rock Creek Church spire (Somerset County, W. I. Vinal, 1901).—In the village of Rock Creek, about 1 mile south of Hall Point and 1 mile east of Haines Point. Station is a square, pyramidal, dark spire of Methodist Episcopal Church.

Pen—Pendleton's house chimney (Somerset County, C. C. Yates, 1907).—On the southeastern shore of the upper part of Manokin River, on Clifton Point. Station is the northern chimney of a large 2½-story, 4-gable roof, brick house belonging to Mr. Pendleton. The house is back from the river, and there are trees between it and the shore.

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Barn—Ford's barn cupola (Somerset County, C. C. Yates, 1907).—On the south shore of Manokin River, on prominent point of land between Wolf Trap and Back Creeks. Station is center point of cupola on a large red frame structure used as a barn on the farm of Hershel Ford.

Cupola—Bennett's oyster house (Somerset County, C. C. Yates, 1907).—On the south shore of Manokin River, on the north end of Fishing Island. Station is center point of top of bell cupola on Bennett's oyster house.

BIG ANNEMESSEX RIVER

Geog (Somerset County, C. C. Yates, 1907).—On the south shore of Big Annemessex River, on the point on east side of a square-shaped inlet about ¾ mile northeast of the entrance to Jones Creek, on marshland about 50 yards back from extreme end of point, about 20 yards from southeast corner of square-shaped bay, and about 25 yards from east shore line. Myrtle bushes extend along shore to east of station for about 100 yards and reeds grow 25 yards to the north. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to points of reference are as follows: Near end of red roof on opposite shore, 3¾ miles, 148° 59′; pine tree to the right of two others, 4¼ miles, 155° 33′; chimney on oysterhouse (station *Ford*), 1½ miles, 165° 38′; center gable of red house, 3⅛ miles, 217° 53′; chimney on middle of dark red oysterhouse, 1 mile, 263° 41′.

Ford (Somerset County, C. C. Yates, 1907).—On the north shore of Big Annemessex River, on the south side of Jerico Marshes, just east of Muddy Creek. Station is center of chimney on roof of oysterhouse near Fords Wharf. This chimney is a little east of middle of roof.

Moon (Somerset County, C. C. Yates, 1907).—On the north shore of Big Annemessex River, on point between Moon Bay and Crane Cove, on a marsh point, about 35 yards from the extreme end, 25 yards from east side, and 30 yards from south side. A small pool stands about 10 yards south of the station and a crescent-shaped pool about 10 feet wide and 100 feet long extends from a point about 20 yards west to a point 20 yards north of the station. A row of myrtle bushes begins at a point directly south of the station, extends along shore to east, and ends at Moon Bay. Another lot of small myrtle bushes begins at a point about 100 yards west of station and extends along the shore to the west. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to points of reference are as follows: Chimney on middle of long barn, ¾ mile, 11° 35′; eastern end of cabin roof, 1½ miles, 163° 25′; chimney on cabin, 1¾ miles, 187° 31′; chimney on cabin, 1¾ miles, 190° 03′; peak on center gable of red-roofed house, 2½ miles, 209° 04′; near end of old 2½-story house, 1⅝ miles, 221° 19′; western chimney of square-roofed house, 1 mile, 294° 06′; eastern end of white house roof, 1¼ miles, 306° 37′; eastern end of roof of large barn, 1 mile, 333° 49′.

Colburn (Somerset County, C. C. Yates, 1907).—On the south shore of Big Annemessex River, on the southeastern side of the entrance to Colburn Creek. Station is center of chimney on top of a modern house of several gables. This house sets alone about halfway between oysterhouses to the west and a group of houses to the east.

POCOMOKE SOUND

Sam (Somerset County, J. B. Baylor, 1898; 1916).—At the western end and on the northern shore of Pocomoke Sound, on the north side of the entrance to Cedar Straits, about ⅛ mile north of Green Harbor Island, on marshland, between two clumps of water bushes, about 10 yards back from extreme high-water mark and 15 yards back from ordinary high-water mark. A slough passes about 100 yards north of the station and there are several pools 50 yards north of the station. Station mark is a solid iron rod driven into the marsh. In 1916 the exposed portion of this rod was badly rusted and difficult to recover. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, set 2.81 meters (9.22 feet) from the station in azimuth 194° 06′. Two ranges were established for locating station *Watkins Point*, which is in the water (see description of that point). One is formed by *Sam* and a drain tile pipe set about 75 yards to the north-northwest. Distances and azimuths to various points of reference are as follows: Left chim-

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ney on Fox Island, 1¾ miles, 31° 45′; chimney on middle of large building on Fox Island, 1¾ miles, 33° 38′; large clump of trees on Fox Island, 1¾ miles, 56° 51′; point of land, 50 yards, 294° 46′; left tangent of small island, 300 yards, 327° 48′; right tangent of small island, 300 yards, 355° 29′.

East (Somerset County, J. B. Baylor, 1898; 1923).—On the north shore of Pocomoke Sound, between Apes Hole and Broad Creeks, on a detached marsh point called Oystershell Point, on east side of entrance to Cow Gap Creek. This detached marsh point or island is about 200 yards from the mainland. Water bushes cover the northerly part of the island. The station is on the southerly part of the island, about 13 yards south from the shore, 14 yards west of shore, 36 yards north of shore, and 5 yards east of shore. Station mark is a spike in a cement-filled drain tile pipe, 3½ feet long, set with its top flush with the surface of the ground. The reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 6.38 meters (20.93 feet) from the station in azimuth 329° 45′. Other distances and azimuths are as follows: Pole at oysterhouse, 3½ miles, 34° 53′; point of land west, 200 yards, 63° 06′; cabin chimney, ¼ mile, 70° 50′; tall tree, 1¾ miles, 158° 08′; point of land east, 35 yards, 261° 00′. When recovered in 1916 the station mark was reported as being in very soft ground, while the reference mark was reported as having been removed.

Watermelon hummock (Somerset County, E. Blunt, 1849; 1923).—On the northern shore of Pocomoke Sound, in the midst of a large tract of marshland lying between Apes Hole and Broad Creeks, and about 2½ miles southeast of Somers Cove Light. A clump of trees stands about 25 yards to the north. Station is about 150 yards southwest of wide part of the upper end of Massey Creek. In 1907 the station was marked with a standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths of witness points are as follows: Cedar tree, 100 yards, 3° 49′; nail in blaze in pine, 21.00 meters (68.9 feet), 175° 25′; nail in blaze in pine, 11.36 meters (37.3 feet), 212° 17′.

Mos (Accomac County, Va., C. C. Yates, 1907).—Between Pocomoke Sound and Messongo Creek, on the western extremity of a marsh point, locally known as Fishing Point, and about ⅛ mile east of the eastern extremity of a small island. Station is about 2 feet above and 8 feet back from ordinary high-water mark on the north and 45 feet from the western end of a point. A crab-packing shanty stands about 8 yards to eastward of the station. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to points of reference are as follows: Chimney on shanty, 200 yards, 86° 15′; point of island, ⅜ mile, 177° 38′; right edge of woods on Saxis Island, 2½ miles, 230° 48′; left corner of crab house, 6.74 meters (22.11 feet), 243° 35′; right corner of crab house, 6.37 meters (20.90 feet), 273° 20′; point of land on Burntwood Island, 2 miles, 307° 38′.

Scot (Somerset County, F. F. Weld, 1901; 1923).—On the north shore of Pocomoke Sound, between East and Marumsco Creeks, about 15 yards from extreme end of marsh point, which is apparently rapidly washing away. Station marked by a section of 6-inch terra-cotta pipe buried 6 inches below the surface and covered with cement which reaches to the surface, with a galvanized-iron spike to mark the center. When recovered in 1916 the station was under 1 foot of sand. The reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 11.66 meters (38.3 feet) from the station in azimuth 220° 32′. Distances and azimuths to points of reference are as follows: Chimney on Stirling's watch house, 2½ miles, 75° 55′; chimney on brown house, 2¼ miles, 217° 56′; chimney of oysterhouse, 2½ miles, 261° 57′; 2½-story white house, 2¼ miles, 320° 17′; chimney on 4-gable house, 2¼ miles, 333° 31′.

Waste (Accomac County, Va., J. B. Baylor, 1898).—Between Tangier and Pocomoke Sounds, on Little Fox Island, near the center of the neck of land which marks the southern end of the Fox Island group. Station mark is an iron rod driven in the ground and projecting a few inches above the surface.

Old (Somerset County, F. F. Weld, 1901; 1912).—On the north shore of Upper Pocomoke Sound, on the point of land halfway between Marumsco Creek and Williams Point, about 150 yards east of John T. Handy's wharf, and 15 feet back from the shore, on a narrow strip of marshland which is wearing away by

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wave action; thick water bushes stand east and west of the station. Three large pine trees stand about ⅛ mile north by east and several oysterhouses about 200 yards to the west. Station marked by a section of 6-inch terra-cotta pipe, buried 6 inches below the surface, and covered over with concrete to the level of the ground; a galvanized-iron spike in the summit of the concrete marks the center. Reference mark is center of a standard cement monument of the Maryland Shell Fish Survey, note 16, 11.57 meters (38 feet) from the station in azimuth 195° 38′. Other distances and azimuths are as follows: Nearest end of peak of Matthew's house on Saxis Island, 2⅛ miles, 33° 22′; chimney of Richardson's oysterhouse, 1¾ miles, 95° 42′; end of wharf, 150 yards, 99° 42′; chimney of dwelling house, 125 yards, 120° 54′; largest of three pine trees, ¼ mile, 193° 41′; tree to right of three pine trees, ¼ mile, 195° 01′; chimney of dilapidated white house, 250 yards, 245° 44′; nearest gable of first faded red roof house, 2 miles, 333° 04′.

Oil (Accomac County, Va., C. C. Yates, 1907).—On the southern shore of the upper end of Pocomoke Sound, about 1½ miles southwest of Williams Point, on the western side of "Pig Point," a marsh point covered with sand, about 2 feet above and 30 feet east of ordinary high-water mark, 5 feet east of extreme high-water mark, 100 feet south of ordinary high-water mark, and about 3 feet south of extreme high-water mark. Water bushes skirt shore to east and north and sand beach curves to southwest. On the next point about ¼ mile southwest are two trees. Station marked by spike in center of 6-inch tile pipe filled with cement with top flush with surface. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 46.18 meters (151.5 feet) from the station in azimuth, 5° 00′. Other distances and azimuths are as follows: Tree, ¼ mile, 46° 59′; point of land, 100 yards, 53° 19′; highest chimney in group of white houses, 1¾ miles, 157° 29′; high long-leaf pine, 2 miles, 163° 02′; westerly end of barn, 2 miles, 219° 49′; large lone tree, 2½ miles, 244° 52′; peak of roof of Federman's store, ⅜ mile, 297° 12′; chimney on oysterhouse, ¼ mile, 305° 16′; large tree, ¼ mile, 311° 56′; windmill on Federman's barn, ¾ mile, 317° 28′; chimney on outside of cabin, ¼ mile, 327° 59′, persimmon tree, ¼ mile, 350° 21′.

Will (Somerset County, C. C. Yates, 1907).—On the north shore of Pocomoke River, on the highest part of a peninsula known as "Williams Point," about ⅜ mile north of extreme southern end of point and well back from both shores. A clump of bushes and two small cedar trees stand about 40 yards to the north and two medium-sized cedar trees about 300 yards to the west. A drainage creek with mouth on easterly side of peninsula runs almost completely around the station, passing about 50 feet to the south. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to points of reference are as follows: Cedar tree near station *Oil*, 1¾ miles, 45° 55′; cedar tree, 300 yards, 106° 37′; cedar tree, 300 yards, 116° 15′; persimmon tree, 320 yards, 129° 06′; nail in blaze in cedar tree, 34.30 meters (112.5 feet), 262° 03′.

Summer (Accomac County, Va., C. C. Yates, 1907).—On the southern shore of the mouth of Pocomoke River, about ¾ mile south of Williams Point, on a point known locally as "Sand Bar Point." Station is on sandy part of marshland, about 20 feet back from high-water mark on north and west sides of point. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to points of reference are as follows: Larger chimney of white house near woods, ½ mile, 26° 57′; Federman's windmill, ½ mile, 68° 16′; chimney of large white house, 2¼ miles, 202° 44′; large high tree, 3 miles, 212° 47′; large high tree (opposite shore), 2 miles, 224° 13′; southerly chimney of large house, 1¾ miles, 266° 44′; chimney on L of red-roofed house, ½ mile, 306° 53′; first pine tree in half a dozen or more, ½ mile, 348° 30′.

Saxis church spire (Accomac County, Va., F. F. Weld, 1901; 1907).—In 1916 it was reported that this church had been rebuilt. The station is lost.

Asbury church (Somerset County, F. W. Perkins, 1898; 1916).—In the town of Lawsonia, about 1½ miles from Crisfield Harbor. Station is center of very slender spire on church known as "Asbury Methodist Episcopal Church."

Cup (Accomac County, Va., C. C. Yates, 1907).—On the Virginia side of Pocomoke River, on solid land about ½ mile back from shore and ⅛ mile from nearest bend of Holden Creek, on land known as "Jolly's Neck Farm." Station is center of top of octagonal-shaped cupola on large unpainted barn, which stands near many cedar trees and south of another large unpainted building.

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Wharf (Accomac County, Va., C. C. Yates, 1907; 1916).—On the Virginia side of Pocomoke Sound, about ½ mile offshore from Saxis Island. Station is flagpole on northwest end of peak of pier house on detached pile structure called Saxis Pier.

Crisfield, Mount Pleasant Church spire (Somerset County, F. W. Perkins, 1898; 1907).—In the city of Crisfield, on Main Street, center of steeple on brick church known as Mount Pleasant Methodist Protestant Church.

MARYLAND-VIRGINIA BOUNDARY, TANGIER AND POCOMOKE SOUNDS

Horse hammock (Maryland-Virginia boundary, W. C. Hodgkins and J. B. Baylor, 1898; 1916).—On the eastern shore of Smith Island, on Horse Hammock, north of the entrance to Tylers Creek. It marks an angle of the State boundary line. It was originally marked by a terra-cotta pipe set in cement, but in 1916 this pipe was found washed out and fallen over. The point was reproduced by measuring 276 feet from the granite post located on the line across Smith Island by Capt. F. V. Abbot, United States Army, in 1883. Back Range of 1898, a terra-cotta pipe set in cement, is 55.6 feet north of the granite post above mentioned. It forms with *Horse Hammock* a range for determining Point A of the boundary in Tangier Sound (azimuth 100° 31′ 50″). The point reproduced and checked by triangulation was re-marked in 1916 by a railroad rail 30 feet long, set about half its length in the ground and encased in concrete to above water level. It carries a target on top, 6 feet on a side. The station is in about 1½ feet of water at high water and about 100 feet outside high-water mark. Reference mark for station *Horse*, 1907, a standard cement monument of the Maryland Shell Fish Survey, note 16, is 28.36 meters (93.0 feet) from the station in azimuth 10° 56.8′.

Corner A (Maryland-Virginia boundary, W. C. Hodgkins and J. B. Baylor, 1898).—In Tangier Sound, where no marks could be placed. Point is determined by the range composed of *Horse Hammock* and Horse Hammock Back Range (described under *Horse Hammock*), and the distance from *Horse Hammock*.

Watkins Point (Maryland-Virginia boundary, W. C. Hodgkins and J. B. Baylor, 1898; 1916).—On northern side of Green Straits, between Pocomoke and Tangier Sounds, and about midway between triangulation station *Sam* and Green Island. It is in about 5 feet of water at low water, and was originally marked by a pine tree sunk in the bottom of the strait. In 1916 this tree had disappeared, but it was reproduced from ranges and remarked with a railroad rail 30 feet long set about half its length in the ground and surrounded with cement, to above the water line. A metal target 6 feet square was placed on top.

Corner B (Maryland-Virginia boundary, W. C. Hodgkins and J. B. Baylor, 1898).—In Tangier Sound, at an angle of the boundary between Maryland and Virginia. No marks were placed at this point, and it is established by its distance from station *Watkins Point*, and a range from that point through station *Blizzard Island Range* (consult index).

Corner C (Maryland-Virginia boundary, W. C. Hodgkins and J. B. Baylor, 1898; 1916).—In Pocomoke Sound. In 1916 neither the pile which originally marked the point nor the shore ranges were recovered, and the point was reestablished by triangulation and marked by a buoy anchored to a cement block weighing 1,000 pounds. In 1923 the position of a buoy at this point was determined.

Corner D (Maryland-Virginia boundary, W. C. Hodgkins and J. B. Baylor, 1898; 1916.—In Pocomoke Sound, about 2⅛ miles west-northwest from the village of Saxis, Accomac County, Va. In 1916 the only mark recovered was an iron pipe projecting about 2 feet above the bottom of the sound. A buoy was placed as near to the pipe as practical, anchored with a block of concrete weighing about 1,000 pounds. In 1923 the position of a buoy at this point was determined.

Smith Island back range (Somerset County, L. A. Potter, 1916).—Established by representatives of the States of Maryland and Virginia, near the eastern side of Smith Island, about ½ mile west of the locality known as Horse Hammock, on the west side of a small creek entering from Tylers Creek, 1 mile north-northwest of Horse Hammock Point. Station mark is a railroad rail 30 feet long, set about half its length in the ground, and surrounded with

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concrete to a few feet above the ground. A metal target 6 feet on side is attached to the top of the rail. This station was established by representatives of the engineering departments of the States of Maryland and Virginia, and forms a back range with a similar mark at station *Horse Hammock* of the Maryland-Virginia boundary, establishing the boundary from that station eastward to *Station A*, Maryland-Virginia corner in the middle of Tangier Sound.

Blizzard Island range (Maryland-Virginia boundary, L. A. Potter, 1916).—On the Maryland-Virginia boundary, between Tangier and Pocomoke Sounds, just north of Great Fox Island, on the northeast side of a small island named on the charts as "House Island," but known locally as "Blizzard Island." Station is 6 feet inside the high-water mark; the island on this side appears to be building out. The station mark is a railroad rail, 30 feet long, set about half its length in the ground, and surrounded with concrete for a few feet above the ground. Its top carries a metal target, 6 feet on a side. This station was established by representatives of the engineering departments of the States of Maryland and Virginia, and forms a range with a similar signal at station *Watkins Point* to establish the boundary from Watkins Point westward to *Station B*, a boundary corner in the middle of Tangier Sound. An iron pipe, broken off a few inches above the ground, and covered by high water, stands on the west side of this island, on the line established by *Watkins Point* and *Blizzard Island Range;* it is one of the original marks set to establish this boundary.

DELAWARE LINE TO SINEPUXENT BAY

Daisy Marsh 2 (Sussex County, Del., E. Smith, 1909).—On a very prominent sand hill north of Fenwick Life Saving Station, and just back of a point of marsh projecting into Little Assawoman Bay. Marked by a 1-inch galvanized iron pipe 8 feet long, upper 4 feet set in cement and centered by a standard bronze disk. Northward from the station are two old wrecks, and southeasterly are the remains of another wreck.

Island (Sussex County, Del., E. Smith, 1909).—On the north side of a small island in Little Assawoman Bay, a little north of the line between Fenwick Lighthouse and Rodgers 2. The island is about half marsh and half hammock land. Marked by 1-inch galvanized iron pipe 18 inches long, set in 15-inch cement post and centered by a standard bronze disk. Subsurface mark is beer bottle set in cement 3 feet below surface. Reference is 8-inch square cement post centered by a bottle, distant 13.57 meters (44.5 feet) in azimuth 335° 45′.

South hammock (Worcester County, E. Smith, 1909).—On western side of Assawoman Bay, on first hammock north of mouth of Grey Creek, and near the eastern side of the island, which is easily recognized by the bluff on its south side. Marked by a 1-inch galvanized iron pipe 18 inches long with top nearly 3 feet below the surface of the ground. Above this is a cement block about 15 inches in diameter in which is set a standard bronze disk, fastened in a 1-inch galvanized iron pipe 18 inches long. Reference mark No. 1 is a cement post 10 inches square with diagonal lines on top; it is 8.72 meters (28.6 feet) from the station in azimuth 28° 30′. No. 2 is a cement post 1 foot in diameter with circle and nail for center; it is 9.48 meters (31.1 feet) from the station in azimuth 141° 22′.

Rodgers 2 (Sussex County, Del., E. Smith, 1909).—Southwest of Little Assawoman Bay, in a cultivated field, on the property of E. H. Derickson. No surface mark was placed. The subsurface mark is a standard bronze disk set in cement nearly 3 feet below the surface of the ground. Reference mark is a cement post 8 inches square with bottle in center; it is near the southwest corner of the barnyard fence on the property of J. E. Derickson and is 81.45 meters (267.2 feet) from the station in azimuth 176° 56′.

Howard (Worcester County, E. Smith, 1909).—On eastern side of Assawoman Bay, southwest of the Isle of Wight Life Saving Station, on a sand hill some 15 or 20 feet high. Marked by a bottle set in cement nearly 3 feet below the surface of the ground. Above this is a block of cement about 15 inches in diameter, in the center of which is a standard bronze disk set in top of a 1-inch galvanized iron pipe 18 inches long. A reference mark was set at the southwest corner of the life-saving station building; it is a bottle in the center of a cement post 8 inches square and is 56.10 meters (184.1 feet) from the station in azimuth 247° 29′. Other references were as follows: House chimney, 167

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paces, 113° 32′; house chimney, 170 paces, 145° 52′, chimney of life-saving station, 240° 45′.

Wight 2 (Worcester County, E. Smith, 1909).—On east side of Isle of Wight about 8 or 10 feet above water level. Marked by 1-inch galvanized iron pipe 18 inches long set in 20-inch cement block and centered by a standard bronze disk. Subsurface mark is bottle set in cement 3 feet below surface. Reference mark No. 1 is a 1-foot cement post centered by a baking-powder bottle, subsurface mark being a glass flask set in cement 3 feet below surface; it is distant 28.31 meters (92.9 feet) in azimuth 62° 53′. Reference mark No. 2 a 10-inch square post with diagonal lines, subsurface mark being bottle bottom up set in cement 3 feet below surface; it is distant 29.03 meters (95.2 feet) in azimuth 172° 34′.

Reedy (Worcester County, E. Smith, 1909).—On a sand hill between Isle of Wight Bay and the ocean and just back of what is known locally as Reedy Point, a point of marsh projecting into the bay. It is a little more than halfway from Ocean City to the Isle of Wight Life Saving Station. Marked by a standard bronze disk in top of a 1-inch galvanized-iron pipe 8 feet long, with top flush with ground, and upper 4 feet encased in cement. Reference mark is a cement post 8 inches square with bottle in center. It is toward the ocean, 1.73 meters (5.7 feet) south of a telephone pole, and 15.13 meters (49.6 feet) from the station in azimuth 278° 11′.

Thorofare (Worcester County, C. C. Yates, 1908; 1909).—On the western shore of Sinepuxent Bay and southern shore of Isle of Wight Bay, on land known as Drum Point, on "Thorofare Farm," about 400 yards from Sinepuxent Bay and 165 yards southwest from the Thorofare. It is in a cultivated field about 8 feet above high-water mark, on the second knoll southwest from the Thorofare, 400 yards north of "Thorofare Farm" house, 200 yards west of a wagon trail, and 32 yards southwest of the lowest point of the hollow between the two knolls. Marked by the center of standard cement monument of the Maryland Shell Fish Survey, note 16, buried with top 12 inches below the surface of the ground. The reference mark is a cement monument in bottom of hollow between the two knolls; it is about on range with the Isle of Wight Life Saving Station, being 51.032 meters (167.43 feet) from the station in azimuth 213° 14′. Other distances and azimuths are as follows: Chimney of "Thorofare Farm" house, ¼ mile, 2° 54′; chimney on gray house, ½ mile, 56° 53′; left chimney on white house, 1 mile, 83° 57′; Episcopal Church spire, 1½ miles, 326° 58′; middle of lookout of Ocean City Life Saving Station, 1¾ miles, 333° 02′; Presbyterian Church spire, 1¾ miles, 333° 46′; flagstaff on middle of square roof of Atlantic Hotel, 1¾ miles, 337° 40′; power-house chimney, 1⅞ miles, 337° 46′; ice-plant stacks, 2 miles, 345° 05′.

Collier (Worcester County, C. C. Yates, 1908; 1909).—On the eastern shore of Sinepuxent Bay, about midway between bay and ocean, ¼ mile north-northeast of station *Convent Water Tower* and ½ mile south of Collier Islands, on a sand and grass beach about 3 feet above high water, about 65 yards west of top of sand dunes, 8 yards north of a high-water overflow, and 42 yards west of line of telephone poles. Marked by the center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths of reference points are as follows: Convent chimney, ¼ mile, 11° 50′; Convent water tower, ¼ mile, 17° 09′; Episcopal Church spire, 1 mile, 19° 35′; flagstaff on Atlantic Hotel, 1½ miles, 20° 19′; power-house chimney, 1½ miles, 21° 10′; ice-plant stack, 1¾ miles, 23° 53′; chimney of "Thorofare Farm" house, 1¼ miles, 93° 26′; eighth telephone pole north of Convent of St. Rose, 50 yards, 245° 55′; seventh telephone pole north of Convent, 65 yards, 341° 17′.

SINEPUXENT AND CHINCOTEAGUE BAYS

Gantt (Worcester County, C. C. Yates, 1908).—On the western shore of Sinepuxent Bay, opposite Ocean City and about ½ mile back from the water, in a cultivated field on Gantt (formerly Davis) farm, and about 10 feet above high water. It is about 300 yards north by west of the old Davis farmhouse, on a ridge or slight rise in the ground extending out from the woods, 260 yards east-southeast of old woods and 90 yards east of a young growth of pines adjacent to old woods. It is also about 70 yards north of an east-and-west wire fence and ditch and 83 yards west of a north-and-south fence and road running to farmhouse. Marked by the center of standard cement monument of the Mary-

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land Shell Fish Survey, note 16, buried with top 2 feet below the surface of the ground. The reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 85.44 meters (280.3 feet) from the station in azimuth 89° 46′. Other distances and azimuths are as follows: Near chimney of house on Tabor farm, ¾ mile, 4° 07′; east tip of barn roof, ¾ mile, 200° 21′; chimney of "Thorofare Farm" house, ¾ mile, 210° 46′; middle chimney of Convent, 1½ miles, 264° 16′; Episcopal Church spire, 1¼ miles, 291° 11′; Catholic Church cross, 1¼ miles, 305° 25′; power-house chimney, 1¼ miles, 308° 55′; flagstaff on square roof of Atlantic Hotel, 1¼ miles, 309° 21′; ice-plant stack, 1¼ miles, 321° 29′; left chimney of house on Tabor Hill, 1 mile, 325° 04′.

Hamilton (Worcester County, C. C. Yates, 1908).—On the eastern shore of Sinepuxent Bay, in Ocean City, about ½ mile northeast of the railway bridge and two-thirds the way from Sinepuxent Bay to the board walk on the ocean side, on sand and grass land about 6 yards east-southeast of the extension of the east curb line of Philadelphia Avenue, 145 yards northwest of Episcopal Church spire, 16 yards east-southeast of the telephone line on edge of wagon trail along proposed Philadelphia Avenue, and 40 yards north of an exposed line of sewer pipe. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to points of reference are as follows: Presbyterian Chuch spire, ¼ mile, 12° 01′; power-house chimney, ¼ mile, 15° 14′; left chimney of Gray's house, 1¼ miles, 63° 32′; chimney of house on "Thorofare Farm." 1½ miles, 139° 29′; Convent water tower, ¾ mile, 207° 01′; south end of roof of Quillin's cottage, 400 yards, 249° 51′; peak on tower of Doyle's cottage, 350 yards, 264° 27′; chimney of Mervue's cottage, 350 yards, 292° 58′; chimney on Hotel Hamilton, 225 yards, 296° 11′; Episcopal Church spire, 145 yards, 308° 02′; chimney on Atkins's cottage, 175 yards, 342° 08′; flagstaff on left end of Mount Pleasant Hotel, ¼ mile, 353° 54′.

Ocean (Worcester County, C. C. Yates, 1908).—On the eastern shore of Sinepuxent Bay, about one-third the way from bay to ocean, about ⅜ mile south-southwest of Ocean City water tower, on sand and grass land, about 8 yards east of telephone line and about 2 yards west of an old line of poles formerly used to support wires. It is apparently in the proposed extension of Philadelphia Avenue, but this is uncertain, as the street lines are indefinite in this locality. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, buried with its top 12 inches below the surface of the sand. Distances and azimuths to points of reference are as follows: Chimney of white house, 200 yards, 15° 53′; near corner of ice house sill, 110 yards, 80° 59′; left chimney of Tabor's house, ¾ mile, 142° 53′; left stack of Cropper's ice plant, 170 yards, 191° 27′; left tangent of Captain Lidlam's office, 165 yards, 197° 12′; near chimney on Ocean City station, ⅜ mile, 204° 18′; Ocean City water tower, ⅜ mile, 206° 00′; power-house chimney, ⅜ mile, 210° 25′; flagstaff on Atlantic Hotel, ⅜ mile, 213° 58′; chimney on 2½-story house, 200 yards, 206° 57′; near corner of house, 200 yards, 246° 06′; near corner of T. Cropper house, 33 yards, 318° 16′.

Harmon (Worcester County, C. C. Yates, 1908).—On the west shore of Sinepuxent Bay, about ¾ mile back from west end of railroad bridge and just south of the Baltimore, Chesapeake & Atlantic Railway tracks, in a field, about 72 yards south of the east-and-west railway tracks and about 65 yards south of the railway fence. It is about 170 yards east of the first pine woods from the bay shore and about 145 yards east of some young-growth pines adjacent to the woods. Station is marked by center of standard cement monument of the Maryland Shell Fish Survey, note 16, buried with its top 12 inches below the surface of the ground. Distances and azimuths to points of reference are as follows: Corner of fence and woods, 242 yards, 42½°; corner of railroad fence and woods, 138 yards, 115½°; 3 or 4 small trees, ⅛ mile, 310½°; left clump of trees, ⅛ mile, 341½°; near chimney of Harmon's house, ¼ mile, 186° 22′; right chimney of Tabor's house, ¾ mile, 259½°; power-house chimney, 1 mile, 263° 37′; flagstaff on square roof of Atlantic Hotel, 1 mile, 264° 54′; Cropper's ice-plant stacks, 1 mile, 277° 07′.

Buffing (Worcester County, C. C. Yates, 1908).—On the western shore of Sinepuxent Bay, about 1½ miles southwest of Ocean City, on lowland about 200 yards northeast of a knoll known locally as Steam Mill Hill, about 2 feet above high water, 25 yards west from shore, 65 yards northwest of where

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wire fence meets shore, 30 yards northeast of nearest point of fence, and 60 yards from junction of fence and pine woods. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths of points of reference are as follows: Left chimney of Kelley's brown house, 1 mile, 20° 20′; chimney at right end of Buffington's house, 200 yards, 41° 07′; fence and woods, 60 yards, 106° 08′; chimney on top of hip-roof house, ½ mile, 144° 31′; right tangent of woods, 60 yards, 144° 31′; Cropper's ice-plant stacks, 1¼ miles, 240° 36′; left end of fence at shore, 65 yards, 348° 18′.

Gull (Worcester County, C. C. Yates, 1908).—On the eastern shore of Sinepuxent Bay, nearly halfway between bay and ocean, and about 1 mile south-southwest of Ocean City, on sand and grass beach land, about 2 feet above high water, 130 yards west of Life Saving Service telephone line, 200 yards west of top of sand dunes and 65 yards south of a square marble pillar projecting above ground in middle of a bare washed space. Station marked by nail in stub flush with surface of sand and grass. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, set about on line with the left end of woods below Buffington's house, being 7.685 meters (25.21 feet from the station in azimuth 88° 57′. Other distances and azimuths are as follows: Near chimney of Kelley's house, 1¼ miles, 56° 59′; left chimney on Baker's house, 1⅛ miles, 82° 00′; Baker's windmill, 1 mile, 83° 09′; chimney on Buffington's house, ¾ mile, 105° 37′; chimney on near side of roof of gray house, 1½ miles, 125° 02′; near chimney of Harmon's house, 1¼ miles, 158° 08′; near end of roof of Tabor's house on Tabor Hill, 1 mile, 187° 37′; power-house chimney, 1¾ miles, 207° 49′; flagstaff on square roof of Atlantic Hotel, 1¼ miles, 208° 49′.

Inkquill (Worcester County, C. C. Yates, 1908).—On the western shore of Sinepuxent Bay, near Coffins Point, about 2⅜ miles southwest of Ocean City, on top of a shell knoll about 10 feet above high-water mark, 30 yards west of shore, 100 yards from corner of fence near Kelley's house, 150 yards from near corner of Kelley's house, and about 55 yards southeast of ditch. Marked by center of standard cement monument of the Maryland Shell Fish Survey, note 16, buried with top 12 inches below the surface of the ground. Distances and azimuths to points of reference are as follows: Corner of fence, 100 yards, 18° 04′; near chimney of Kelley's house, 150 yards, 24° 03′; chimney of large four-sided roof, 1½ miles, 55° 02′; Baker's windmill, ½ mile, 171° 41′; chimney of Buffington's house, ¾ mile, 197° 26′; Cropper's ice-plant stacks, 2 miles, 223° 31′; tangent of land, 170 yards, 225° 37′; tangent of land, 40–50 yards, 289° 51′; left tangent of fence, 125 yards, 356° 39′.

Seaside (Worcester County, C. C. Yates, 1908).—On the eastern shore of Sinepuxent Bay, about midway between bay and ocean, and about 2¼ miles south-southwest of Ocean City, on sand and grass land about 4 feet above high water, on the north side of an overflow from the ocean, about 200 yards from Sinepuxent Bay and 120 yards west-northwest of sand dunes between the ocean and the station. Station marked by nail in stub flush with ground. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16; it is 10.32 meters (33.9 feet) from the station in azimuth 222° 40′. Other distances and azimuths are as follows: Right chimney of Coffin Hotel, 2 miles, 75° 13′; right chimney of Kelley's brown house, ¾ mile, 107° 06′; Baker's house, 1 mile, 135°; chimney on Buffington's house, 1¼ miles, 157° 22′; Tabor's house on Tabor Hill, 2 miles, 192° 01′; power-house chimney, 2¼ miles, 203° 27′; flagstaff on square roof of Atlantic Hotel, 2¼ miles, 204° 01′; telephone pole, 81.4 meters (267 feet), 220° 06′; telephone pole, 39.5 meters (130 feet), 254° 33′; telephone pole, 47.8 meters (157 feet), 331° 17′.

Beach (Worcester County, C. C. Yates, 1908).—On the eastern shore of Sinepuxent Bay, about midway between bay and ocean, and about 3 miles south-southwest of Ocean City, on sand and grass beach land, about 3 feet above high water, 250 yards west of shore of Sinepuxent Bay, and 2 feet east of line of telephone poles. Station is marked by center of standard cement monument of the Maryland Shell Fish Survey, note 16. Reference mark was also center of standard cement monument, note 16, set 6.40 meters (21.0 feet) from the station in azimuth 180° 23′; it was reported lost in the shifting sand in 1909. Other distances and azimuths are as follows: Chimney on near end of Henry's brick house, 2 miles, 84° 41′; right chimney of large white house, 2 miles, 112° 38′; left chimney on Kelley's brown house, 1⅛ miles, 153° 22′; cupola on

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Baker's house, 1½ miles, 160° 16′; Baker's windmill, 1½ miles, 161° 15′; nearest chimney of Baker's house, 1½ miles, 162° 08′; cupola on Buffington's barn, 1⅞ miles, 172° 21′; chimney on left end of roof of Buffington's house, 1⅞ miles, 174° 01′; Tabor's house on Tabor Hill, 2⅞ miles, 194° 09′; Cropper's ice-plant stacks, 2¾ miles, 201° 01′; flagstaff on square roof of Atlantic Hotel, 3 miles, 202° 55′.

Ellpow (Worcester County, C. C. Yates, 1908).—On the western shore of Sinepuxent Bay, about ¼ mile inland from what is known locally as Powell Point and about 3½ miles southwest of Ocean City, on marshy grassland, near a property line indicated by crab-apple trees and a wire fence which runs from bay to crab-apple trees and joins a snake fence. Station marked by nail in pine stub flush with the ground. Reference mark is center of standard monument of the Maryland Shell Fish Survey, note 16, set 7.20 meters (23.62 feet) from the station in azimuth 83° 48′. Other distances and azimuths are as follows: Chimney of Henry's brick house, 1⅞ miles, 20° 18′; chimney on right side of four-sided roof of Coffin Hotel, ¼ mile, 70° 16′; chimney on left end of roof of Hastings's house, ¼ mile, 143° 46′; Baker's windmill, 1⅜ miles, 214° 11′; chimney of Buffington's house, 1⅞ miles, 216° 30′.

Shore (Worcester County, C. C. Yates, 1908).—On the eastern shore of Sinepuxent Bay, about halfway between the bay and the ocean, and about 4¼ miles south-southwest of Ocean City, on a sand and grass beach about 2 feet above high water and 16 yards east of a line of Life Saving Service telephone poles. Station mark is nail in stub about 3 inches above surface of sand. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, placed 6.78 meters (22.24 feet) from station in azimuth 252° 57′. Other distances and azimuths are as follows: Top point of large four-sided roof, 2½ miles, 58° 21′; large chimney on house in woods, 2⅛ miles, 68° 25′; left chimney on Henry's house, 1½ miles, 77° 58′; left chimney on brick house, 2 miles, 121° 04′; chimney on left end of gray house, 2 miles, 130° 29′; left chimney of Coffin Hotel, 1¾ miles, 140° 05′; chimney of gray house, 2¼ miles, 171° 42′; Baker's windmill, 2⅝ miles, 179° 18′; left chimney of Kelley's brown house, 2 miles, 179° 55′; Baker's house, 2½ miles, 179° 56′; Buffington's house chimney, 3 miles, 185° 34′.

Fassett (Worcester County, C. C. Yates, 1908).—On the western shore of Sinepuxent Bay, about ½ mile north-northeast of Fassett Point, on shell and marsh land about 2 feet above high water, 120 yards south by east from a slough making into marsh, about 140 yards west of side of point, and 110 yards north of side of point. It is about 200 yards northeast of a fence beyond which is a clump of trees. Station marked by center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Left of clump of trees, 500 yards, 32° 16′; right edge of clump of trees, 400 yards, 62° 03′; chimney on gray house, ⅝ mile, 99° 48′; right tangent of roof of brick house, ¾ miles, 143° 58′; chimney on center of red roof on white house, ¾ mile, 152° 09′; chimney on left side of a French-roof house, 2 miles, 175° 53′; Baker's windmill, 2½ miles, 203° 19′; chimney on right edge of Baker's house, 2½ miles, 204° 07′.

Bar (Worcester County, C. C. Yates, 1908).—On the eastern shore of Sinepuxent Bay, about midway between bay and ocean and about 5¼ miles south-southwest of Ocean City, on sand and grass beach land about 3 feet above high water, 110 yards west of top of sand dunes, and 5 yards east of line of Life Saving Service telephone poles. Station is marked by center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths of points of reference are as follows: Southerly chimney of Henry's brick house, 1¼ miles, 118° 17′; chimney on northerly end of roof with two gable windows, 2 miles, 148° 17′; chimney on middle of red-roofed white house, 2⅜ miles, 151° 26′; left chimney of large white house, 2⅜ miles, 153° 11′; chimney on southerly corner of four-sided roof of gray house, 2½ miles, 162° 04′; Baker's windmill, 3½ miles, 186° 00′; telephone pole, 32 yards, 194° 12′; telephone pole, 65 yards, 29° 29′; middle of roof of Longwell's house, 1½ miles, 78° 32′.

Nellys Bar (Worcester County, C. C. Yates, 1908).—On the western shore of Sinepuxent Bay, about 1¼ miles north of Sandy Point, on a point of land near a place called Nellys Bar, about 5 feet above high water, 45 yards west-northwest of extreme end of point, 25 yards from north side of point, and 20 yards

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from south side of point, on the edge of a cultivated field and about ¼ mile southeast of a large old-fashioned 2½-story brick house. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to points of reference are as follows: Between two chimneys on Kelley's house, 2⅞ miles, 208° 32′; weather vane of Longwell's house, 1 mile, 37° 18′; left chimney of Henry's brick house, ¼ mile, 144° 40′.

Sanpoi (Worcester County, C. C. Yates, 1908).—On the western shore of Sinepuxent Bay, on Sandy Point, on sage land about 2 feet above high-water mark, about 80 yards west of extreme end of point which is well rounded, 40 yards north of one shore of point and 110 yards south of the other shore of point, about 25 yards east-southeast of one end of a grove of crab-apple trees and about 110 yards south of the other end, and surrounded by small bushes about 18 inches high. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: North Beach Life Saving Station flagstaff, 3⅜ miles, 3° 48′; tangent to Indian Graveyard Point, 1 mile, 40° 17′; crab-apple tree, 70 yards, 67½°; southerly chimney of stone house, ½ mile, 73° 48′; left end of grove of crab-apple trees, 25 yards, 121½°; dark brown house, 1½ miles, 194½°.

Mud (Worcester County, C. C. Yates, 1908).—On the eastern shore of lower Sinepuxent Bay, about two-thirds of the way from bay to ocean and 1 mile east-southeast of Sandy Point, on sandy ground about 3 feet above high water, 60 yards west-northwest from top of sand dune, 100 yards east of head of a small, narrow inlet from Sinepuxent Bay, and 110 yards east-southeast of a line of Life Saving Service telephone poles which pass about 18 yards to the east of the wagon trail. Station mark is nail in stub flush with the sand. Reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, set 18.84 meters (61.8 feet) from station in azimuth 122° 06′. Other distances and azimuths are as follows: Telephone pole, 150 yards, 70° 40′; southerly chimney of storehouse, 1½ miles, 100° 29′; telephone pole, 110 yards, 104° 46′; northerly end of ridge of roof of large barn, 1¾ miles, 125° 48′; top point of four-sided roof, 1⅝ miles, 130° 06′; chimney on southerly end of long building, 1¾ miles, 140° 44′; telephone pole, 125 yards, 142° 08′; near chimney of brick house, 2 miles, 161° 23′.

Salt (Worcester County, C. C. Yates, 1908).—On the eastern shore of lower Sinepuxent Bay, about two-thirds the way from the bay to the ocean and 1½ miles south-southeast of Sandy Point, on sand and marsh beach land about 3 feet above high water, 105 yards east by south of a line of poles of Life Saving Service telephone line, and 175 yards east of a small creek known as Jones Salt Works Drain. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: North Beach Life Saving Station flagstaff, 2 miles, 20° 50′; telephone pole, 175 yards, 71° 10′; telephone pole, 135 yards, 93° 10′; telephone pole, 135 yards, 132° 22′; left chimney of stone house, 1¾ miles, 142° 18′; telephone pole, 200 yards, 157° 41′; center of roof of white house, 2½ miles, 162° 18′.

Ingraya (Worcester County, C. C. Yates, 1907).—On the western shore of Sinepuxent Bay, on the eastern side of Sinepuxent Neck, on point known locally as Indian Graveyard Point, about 5 feet above high water, 55 yards north of nearest shore, 180 yards west of extreme end of point near bushes, and 80 yards east of where a ditch coming from the northward turns to westward. Two trees, each about 75 yards distant, are located on the line of the ditch. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, buried with its top 14 inches below the surface of the ground. Distances and azimuths to various points of reference are as follows: Tangent to Green Point, ½ mile, 29° 52′; corner of ditch, 80 yards, 96° 43′; tree, 8 inches diameter, 75 yards, 105° 53; tree, 8 inches diameter, 80 yards, 149° 57′; near chimney of 2½-story house, ¾ mile, 204° 27′.

North Beach Life Saving Station (Worcester County, C. C. Yates, 1907).—On the ocean side of strip of beach land between the ocean and lower Sinepuxent Bay, on the lookout cupola of the North Beach Life Saving Station, a gable-roof structure on a gable-roof 2½-story house. Observations were made on a pole secured temporarily to exact middle of ridge of gable roof of the lookout cupola.

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Birch (Worcester County, C. C. Yates, 1907).—On the southern part of Sinepuxent Neck, between Sinepuxent Bay and Newport Bay, about ½ mile north-northwest of South Point, on the northwest and higher of two knolls about 20 feet above high-water mark, 600 yards east of Island Point, 200 yards northeast of shore of upper Chincoteague Bay, 75 yards east-southeast of where a ditch and fence meet, and about 400 yards southwest of a house and barn. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Nail in blaze in 20-inch walnut tree, 28.61 meters (93.9 feet), 73° 23′; cedar tree, 80 yards, 89° 48′; Jones's windmill, 3½ miles, 95° 36′; nail in blaze in walnut tree, 25.52 meters (83.7 feet), 114° 43′; chimney of house near station *Newport*, 2½ miles, 131° 59′; holly tree, 150 yards, 205° 06′; cedar tree near Birch farm buildings, 300 yards, 233° 07′; chimney of Birch's farmhouse, 300 yards, 240° 41′; cedar tree, 195 yards, 278° 06′; chimney of hotel near North Beach Life Saving Station, 2½ miles, 307° 58′; nail in blaze of walnut tree, 12.72 meters (41.7 feet), 389° 43′.

Beacon Clumps (Worcester County, C. C. Yates, 1907).—On the easterly side of upper Chincoteague Bay, on the southern and larger of two small marsh islands called Beacon Clumps, covered at extreme high water. From the station to the shore on the north is 35 yards, on the east 22 yards, on the south 28 yards, and on the west 75 yards. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. The other marsh island is ¼ mile from the station in azimuth 217°.

Ricks (Worcester County, C. C. Yates, 1907).—On the western shore of upper Chincoteague Bay, on a point of marshland about 1½ miles northwest of Snow Hill Landing, called Ricks Point, about 20 yards west from a pool making into marsh, and 20 yards from shore on north and 90 yards from shore on south. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Guilbert's windmill, 1½ miles, 51° 38′; chimney near end of house, 1 mile, 86° 49′; windmill on red tank, 2 miles, 163° 44′; center of thick woods, 1½ miles, 169° 21′; right tangent of Kelleys Point, 2 miles, 199° 13′; mouth of pool, 30 yards, 309°.

Handy Hammock (Worcester County, C. C. Yates, 1907).—On the western shore of the upper end of Chincoteague Bay and western side of entrance to Newport Bay, on solid land partly surrounded by marsh known as Handy Hammock. This knoll is 10 feet above high water and 140 yards west-northwest from the extreme end of the narrow point on which it is situated. It is about 35 yards west of another short point, 30 feet south-southwest of shore at a sand beach, 20 yards north of a thorn bush, and 50 yards north-northwest of a small pool 20 feet square. Station mark is center of a standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Myrtle tree, 50 yards, 33° 28′; chimney on left end of large white house, 1¼ miles, 49° 43; chimney on right end of another large; white building, 2¼ miles, 54° 34′; center of large white house, 1½ miles, 64° 28′; right end of new barn, 1½ miles, 95° 58′; windmill, ½ mile, 139° 28′; chimney of house with two piazzas, ½ mile, 142° 03′; chimney of large unpainted house, 1 mile, 169° 04′; middle of clump of 12 persimmon trees, 50 yards, 185° 21′; chimney on near end of large, white house, 2¼ miles, 207° 34′.

Newport (Worcester County, C. C. Yates, 1907).—On the northwestern shore of Newport Bay (upper end of Chincoteague Bay) on the easterly side of elevated land (cultivated) known as Cropper Island. Station is 5 feet above high-water mark, 200 yards west of mouth of marsh creek in bay shore, and 150 yards south of the only house on the island. It is near the east edge of tilled land, about 70 yards west from edge of marsh. The tilled land and marsh are separated by a strip of land covered with trees. Station mark is the center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Three trees, 150 yards, 8°; new barn, 2½ miles, 42° 54′; chimney on house, 1½ miles, 47° 27′; chimney on left end of house, 1 mile, 72° 24; thorn bushes, 150 yards, 85° 32′; double walnut tree, 250 yards, 211° 29′; well sweep, 200 yards, 127° 59′; chimney on Birch's house, 2½ miles, 306° 17′; 24-inch walnut tree, 70 yards, 357° 41′.

Neck (Worcester County, C. C. Yates, 1907).—On the northeastern shore of Newport Bay (upper end of Chincoteague Bay), on the easterly side of New-

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port Neck between Greys Inlet and Spence Cove, on marshland about 400 yards northeast of Knot Point, 100 yards north from the shore of Spence Cove, 50 yards northwest of small marsh inlet, and 10 yards south of edge of prominent grove of old oaks. There are bushes between the station and the oak grove. Station marked by center of standard cement monument of the Maryland Shell Fish Survey, note 16. The reference mark, the center of another standard cement monument, note 16, is 12.72 meters (41.7 feet) from the station in azimuth, 172° 35′. Other distances and azimuths are as follows: Tall water bushes, 75 yards, 71°; left chimney of large house, 2¾ miles, 83° 28′; chimney of 1½-story house, 97° 39′; left edge of oak grove, 25 yards, 135° 05′; nail in blaze of 3-inch persimmon tree, 12.24 meters (40.2 feet), 154° 28′; nail in blaze in oak tree (12 inches in diameter), 25.28 meters (82.9 feet), 171° 26′; nail in blaze in oak tree, 17.88 meters (58.7 feet), 226° 55′; chimney of house in woods, ¾ mile, 270° 23′; left chimney of large house, 1 mile, 331° 17′; right tangent of Island Point, 1½ miles, 358° 20′.

Landlet (Worcester County, C. C. Yates, 1907).—On the western shore of Chincoteague Bay, about 2¼ miles south of Snow Hill Landing, on point of land known locally as Watermelon Point; on small sandy island surrounded by marshland and about 20 yards west of shore. This so-called island is the only hard land on the marsh point and is about ⅛ mile to the east of nearest solid land. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. It is buried with its top 2 inches below the surface of the ground. Distances and azimuths to various points of reference are as follows: Four trees on Martin Point, 1 mile, 12° 24′; left of clump of trees called Purnell Hammock, ¾ mile, 24° 26′; large tree, ¼ mile, 72° 19′; chimney of white house, ¾ mile, 91° 03′; cedars on property line, ⅜ mile, 102° 53′; chimney on middle of house, 1 mile, 143° 16′; chimney on outside of house, 1¼ miles, 155° 11′; near end of large barn, 1¼ miles, 169° 08′.

Turnagain (Worcester County, C. C. Yates, 1907).—On the eastern shore of Chincoteague Bay, on marshland on the west side of Assateague Island, about 1 mile southeast of Whittington Point. This marshland is awash at high water. The station is about 75 yards south from the shore, 55 yards east from the shore, and about 83 yards west from shore of small bay. A creek runs nearly around this piece of marsh, but does not make an island of it. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Duck blind, 1 mile, 11° 05′; point of land, ¼ mile, 33° 23′; point of land, 2 miles, 49° 44′; point of marsh, ⅛ mile, 106° 32′; point of land, ¼ mile, 113° 15′; point of land, ¼ mile, 179° 37′; point of marsh, ⅛ mile, 209° 49′; beginning of woods, 1 mile, 267° 03′; cut in top of woods, ¾ mile, 297° 02′; end of woods, ½ mile, 328° 40′; sand dune behind woods, 1¾ miles, 346° 05′; clump of trees, 1¾ miles, 351° 53′.

Mill (Worcester County, C. C. Yates, 1907).—On the western shore of Chincoteague Bay, on the northern part of Mill Island, about ½ mile southwest of its upper end, on the highest point of the island, a hill about 20 feet above high water. The station is about 40 yards east by south of an abandoned house and sheds and about ¼ mile north of another abandoned house. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Knoll on Mill Island, ¾ mile, 24°; tree (8 inches diameter), 40 yards, 30° 45′; tree (8 inches diameter), 70 yards, 51° 19′; tree (18 inches diameter), 39.30 meters (128.9 feet), 63° 26′; near corner of old house, 36.88 meters (121.0 feet), 71° 43′; next corner of old house, 37.64 meters (123.5 feet), 79° 27′; cupola on large house, 1½ miles, 147° 24′; chimneys on white house, 2 miles, 148° 10′; dead tree and 2 cedars, ¼ mile, 222° 51′; chimney of old house, ¼ mile, 358° 26′.

Pope Island Life Saving Station (Accomac County, Va., C. C. Yates, 1907).—On the Atlantic coast, on Assateague Island, on what is known as Pope Island Beach, about 9¾ miles northeasterly from Assateague Light. Station is center of weather-vane spindle on square lookout cupola of the Pope Island Life Saving Station, a 1½-story wooden structure with gable roof.

Wildcat (Accomac County, Va., C. C. Yates, 1907; 1915).—On the western side of Assateague Bay, on the northerly end of Chincoteague Island, on marshland, about ½ mile from the north end of the island, known locally as Wildcat Point. It is inshore, about 100 yards northwest of mouth of a small marsh

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drain emptying into Assateague Bay. The marsh creek or drain makes a decided turn about 12 yards south of station. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Middle of boathouse on beach, 3 miles, 1° 56′; right tangent of woods, 1 mile, 55° 52′; first cedar, 1½ miles, 70° 56′; clump of cedars, 1¼ miles, 92°; right tangent of marshy island, 1¼ miles, 156° 18′; left tangent of Ragged Point, 1 mile, 198° 12′; shanty on Ragged Point, 1 mile, 202° 46′; first tree on Ragged Point, 1 mile, 235° 15′; second tree on Ragged Point, 1 mile, 236° 45′; sand dune, 1 mile, 285°; Smith Hammock sand dune, 1¼ miles, 349°.

Long Point (Accomac County, Va., C. C. Yates, 1907).—On the western shore of lower Chincoteague Bay, about ½ mile east of Franklin City, about 200 yards west of a small marsh island, which once formed part of the mainland and was known as Long Point. The station is on the mainland point, about 40 yards from end of point, 30 yards southwest of shore, and 20 yards north of shore. Station mark is center of tile pipe set in cement, with top flush with ground. The reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, set 11.81 meters (38.7 feet) from the station in azimuth 137° 23′. Other distances and azimuths are as follows: End of wharf at Franklin City, ½ mile, 80° 40′; M. P. Church, 1 mile, 110° 37′; Grace M. E. Church (tall spire), ¾ mile, 117° 12′; Grace M. E. Church (short spire), ¾ mile, 117° 44′.

Chester (Accomac County, Va., A. T. Mosman, 1902; 1909).—About ½ mile southwest of the southwestern shore of Chincoteague Bay, ¼ mile east of solid land known locally as Mosquito Point Farm, on the highest part and near the apex of a V-shaped mound of dry land surrounded by marsh and known locally as Fox Hill, 15 feet above high water. The mound falls off gradually to the level of the marsh at the ends of the V, 150 yards from the station; the extreme apex is about 25 yards north of the station. Station marked by bottle and tile pipe, note 21, top of pipe being flush with ground. The reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, set 5.82 meters (19.09 feet) from the station in azimuth 99° 07′. The cupola of a barn, distant ¾ mile, is in azimuth 75° 52′.

Convent water tower (Worcester County, C. C. Yates, 1908).—Between Sinepuxent Bay and the Atlantic Ocean, about 1 mile north-northeast of Ocean City water tower, on a large wooden water-tower structure belonging to the Convent of Saint Rose, at Ocean City. This tower is detached from the main building and is a very prominent structure. Station is center point of top part of water-tank structure.

Ocean City water tower (Worcester County, C. C. Yates, 1908).—Between the Atlantic Ocean and Sinepuxent Bay, in Ocean City, Md., about 80 yards north by east of Ocean City railroad station, 30 yards south by west from the curb of Talbot Street, and 60 yards west by north from the curb of Baltimore Avenue. Station is center point of upper end of a large round water tank, 25 feet deep, supported on a steel structure 100 feet high, which is known as Ocean City water tower.

Buffington windmill (Worcester County, C. C. Yates, 1908).—On the western shore of Sinepuxent Bay, about 1½ miles southwest of Ocean City, on a knoll known locally as Steam Mill Hill, and near house belonging to Mr. Buffington. Station is center of windmill tower.

Longwell's windmill (Worcester County, C. C. Yates, 1908).—On the western side of Sinepuxent Bay, about ½ mile north by west from Sandy Point, in the rear of house on Longwell farm. Station is center of windmill.

Guilbert's cupola (Worcester County, C. C. Yates, 1907).—On the western shore of Chincoteague Bay, about 100 yards northwest of the land end of Snow Hill Landing. Station is center point of cupola on a large mansion house.

Tizz (Worcester County, C. C. Yates, 1907).—On the western shore of Chincoteague Bay, on the highest point of Tizzard Island, about 15 feet above high water, about ¼ mile from extreme southwestern point of island, and about 75 yards north of shore line of island. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Smoke pipe of shanty, 3 miles, 25° 27′; chimney of first house at Stockton, 3¼ miles, 30° 02′; two chimneys on gambrel roof, 1¾ miles, 47°; near chimney of white house, 2¼ miles, 108°;

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near chimney of another white house, 2¼ miles, 113° 28′; chimney on large unpainted barn, 2 miles, 119° 42′; two chimneys on large house, 3 miles, 125° 54′; Purnell Hammock, 3¼ miles, 220°; left tangent Assacorkin Island, 1⅛ miles, 322° 49′; left tangent Mill Island, 1⅛ miles, 331° 52′.

Green Run Inlet Life Saving Station flagstaff (Worcester County, C. C. Yates, 1907).—On the Atlantic coast, about 18 miles south-southwest of Ocean City. Station is the center of detached flagstaff with a topmast belonging to the Green Run Inlet Life Saving Station.

Maryland-Virginia (Pope Island) (Maryland-Virginia boundary, C. C. Yates, 1907).—On the western side of Pope Bay and eastern side of Pope Island, about ¼ mile northeast of its southern extremity, and on the boundary between Maryland and Virginia. On hard land 3 feet above high-water mark, about 10 yards west of shore, 85 yards south of an old house, and 10 yards east of bushes. Station is center of an old granite monument projecting 18 inches above ground and marking the State boundary. The top of the monument is dressed to a 6-inch square, and an east-and-west line cut from corner to corner, with the letters "M" and "V" to indicate the Maryland and Virginia sides of the boundary, respectively. Distances and azimuths to various points of reference are as follows: Center of small island, ¼ mile, 27°; tangent of Pope Island, ¼ mile, 39° 52′; two large pines, ¼ mile, 65° 21′; left of bushes, 10 yards, 118°; near corner of old house, 85 yards, 209° 22′; point of land near life-saving-station wharf, ¼ mile, 262° 36′; drill pole near life-saving station, ½ mile, 281° 43′; right tangent of shanty, ¾ mile, 301° 46′; right tangent of boathouse, ¼ mile, 326° 36′.

Maryland-Virginia (Life-Saving Station Beach) (Maryland-Virginia boundary, C. C. Yates, 1907).—On the Atlantic coast near ocean beach, on the boundary line between the States of Maryland and Virginia and about ¼ mile north-northeast of Pope Island Life Saving Station, on marsh and sand land about 230 yards northwest of high-water mark, 75 yards west of top of sand dunes on inner edge of beach, and about 50 yards northwest of the Life Saving Service telephone line, which runs along the beach in the midst of bushes at this point. Station is the center of an old granite monument (said to have been established many years ago) which marks the boundary between Maryland and Virginia. The top of the monument is 6 inches square and projects 18 inches above the ground. It is marked with an east-and-west line from corner to corner and the letters "M" and "V" to indicate the Maryland and Virginia sides, respectively. Distances and azimuths to various points of reference are as follows: Left peak of barn roof, ¼ mile, 25° 50′; chimney on old house on Pope Island, ¾ mile, 88° 52′; pine tree in cut toward station *Mill*, ¼ mile, 113° 06′; first telephone pole from end of bushes, 190 yards, 216° 03′; fifth telephone pole from end of bushes, 110 yards, 225° 36′; sixth telephone pole from end of bushes, 52 yards, 283° 17′; seventh telephone pole from end of bushes (fourth from life-saving station), 88 yards, 351° 09′; eighth pole (signal pole at life-saving station), ¼ mile, 17° 14′.

Money (Accomac County, Va., C. C. Yates, 1907).—On the western side of lower Chincoteague Bay, about 1 mile west-northwest of Long Point, on the northern edge of the town of Greenbackville, and just south of the Maryland-Virginia State boundary. Station *Money* is about 70 yards northeast of the railway, on a sandy rise of ground about 15 feet above level of track. It is about 25 yards south of the State boundary line and is 30.43 meters (99.8 feet) distant in azimuth 321° 32′ from station *Maryland-Virginia (railroad)* (see below), a broken stone monument marking the boundary. The station is marked by center of standard cement monument of the Maryland Shell Fish Survey, note 16, buried with the top 30 inches below the surface of the ground. Distances and azimuths to various points of reference are as follows: M. P. Church, ¼ mile, 44° 21′; center chimney on square house, 100 yards, 95° 46′; left of two chimneys close together, 150 yards, 309° 23′; small tower Greenbackville Church, 250 yards, 337° 35′.

Maryland-Virginia (railroad) (Maryland-Virginia boundary, C. C. Yates, 1907).—On the western shore of lower Chincoteague Bay, on the boundary line between Maryland and Virginia, inland about 1 mile west-northwest of Long Point. About 80 yards northeast of railroad, on a sandy rise of ground about 15 feet above level of track. Station is on edge of an excavation in this sand hill and is likely to be undermined by the carting away of sand for building purposes. Triangulation station *Money* was established as a reference

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mark for this station. (See description of station *Money*.) Station is center of a square-top granite monument projecting 18 inches above the ground. In 1907 this top was broken loose and resting on the undisturbed portion of the stone in the ground. The top was cut to a 6-inch square with an east-and-west line from side to side and the letters "M" and "V" to indicate the Maryland and Virginia sides of the boundary, respectively. To secure this boundary mark, in 1907 the triangulation station *Money* was established at a distance of 30.43 meters (99.8 feet), in azimuth 321° 30′.

Grace M. E. Church (Accomac County, Va., C. C. Yates, 1907).—On the western shore of lower Chincoteague Bay, about ½ mile northwest of railway wharf at Franklin City. Station is center of the taller of two towers on church known as Grace M. E. Church.

LOWER POTOMAC RIVER (TO RAGGED POINT)

St. Michaels Catholic Church spire (St. Marys County, P. A. Welker, 1898; C. C. Yates, 1908).—On the western shore of Chesapeake Bay, about ½ mile west of western and inner shore of St. Jerome Creek, and on east side of main road (State road) running through the village called Ridge (or Friendship), and a short distance east of post office of that name. Station is center point of spire on church.

Hall (St. Marys County, J. E. McGrath, 1901; 1908).—On the northern shore of Potomac River, about ⅝ mile northwest of Cornfield Point, and 2¾ miles northwest of Point Lookout, on the estate of James Hall, just east of his garden, and near the western extremity of a large pasture. It is 5 feet above high water, 7 yards (in 1908) east of edge of bank, 6 yards south-southeast of a paling fence, and 150 yards south of a large house with two-story porch. Station mark is a 4-inch drain tile, 3 feet long, large end up, top flush with ground, and surrounded with cement. Reference mark No. 2 is a tile pipe set with top flush with ground and embedded in cement. It is 23.24 meters (76.2 feet) from the station in azimuth 227° 56′. Reference mark No. 1 is the center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 17.82 meters (58.5 feet) from station in azimuth 226° 01′. Other distances and azimuths are as follows: Chimney of grain house, 70 yards, 230° 02′; near peak of roof of Hall house, 150 yards, 184° 29′.

Howard (Northumberland County, Va., F. W. Perkins, 1898; 1910).—On the Virginia shore of the Potomac River, about 2½ miles from Smith Point, 1 foot (in 1904) from edge of bluff, in cornfield belonging to Howard Smith. The azimuth from the station to the chimney of Smith's house is 355° 04′, and to a blazed wild cherry tree, 155⅔ feet distant, is 102° 18′. Station marked by a pine stub in a 4-inch drain tile, with top 6 inches below surface.

St. Mary "A" (St. Marys County, J. E. McGrath, 1901).—On the southeastern end of St. George Island, near a bight which runs well up into the island and is called Island Creek. This is the first bight south of St. George River. The station is on a small ridge, submerged at high tides; between it and a piece of woods is a stretch of marsh grass also submerged at high tides. The station was marked by a 3-foot stub, 2-inches square, surrounded by a 2-inch drain tile, both flush with the surface of the ground. A hole was made in the top of the stub. The nearest pine tree, which was about 5 feet from the shore of the bight, was blazed about 4 feet above the ground; it is 131.1 feet from the station in azimuth 125° 16.9′.

Lynch Point 3 (Westmoreland County, Va., O. W. Ferguson, 1908; 1919).—On southwestern shore of Potomac River, about ⅜ mile northwest from Lynch Point at northwestern side of entrance to Yeocomico River. Station is on sandy beach near edge of grass, about on level with high water, 50 yards southeast of edge of dense pine woods and a wire fence, 90 yards northwest of another dense pine woods, and northeast of a slough with about a dozen trees on opposite side. Station mark, the center of 4 nails in top of post 5 inches below surface of ground, was reported in 1919 as having been washed away, but the two reference marks were recovered. One is a tile set in cement, and is at edge of woods, 55.68 meters (182.7 feet) from station in continuation of line from Point Lookout Light, that is in azimuth 93° 58′. The other reference mark, also a tile set in cement, is 85.53 meters (280.6 feet) from station also in azimuth 93° 58′. The chimney of a house distant about 1¾ miles is in azimuth 24° 46′.

St. George 4 (St. Marys County, O. W. Ferguson, 1908).—On northeastern shore of Potomac River, near the southern end of St. George Island, and

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½ mile west of entrance to Island Creek. In 1919 only one reference mark was recoverable, and it was not in good condition, so a new station, St. George 5, was established.

Kitts Point 3 (St. Marys County, J. E. McGrath, 1901; 1908).—On Kitts Point, between the entrances to St. Marys River and Smith Creek, near the southwest corner of the point and inside of fence, which is being moved back in irreguar line as shore erodes. The land here belongs to the Jesuit Society and is being farmed by them. The station is about 3 feet from the face of a pine stump which stands in a line of bushes extending inland from the river bank toward the second highest pine tree on the point. This stump (in 1901) was pretty well rotted, and was 16 inches in diameter on top. It is nearly on line with the station and the highest pine tree on Kitts Point. Station was marked by a section of reddish-yellow drain tile, 2 inches in diameter, set with its top even with the surface of the ground. In 1908 it was only 2 feet from the edge of the bank. At that time a reference mark consisting of a 4-inch vitrified tile was set in cement, 100.6 feet from the station, in azimuth 256° 50′. The reference mark is 31 feet from the bank and projects 3 inches above surface of ground.

Calvert 4 (Calvert County, O. W. Ferguson, 1908).—On a prominent point of land known as Gray Point on the east side of the mouth of Smith Creek, a little above the "Wreck Buoy," on an area covered with a second growth of pine, and 2 meters back from edge of bank. The station was marked by a nail driven into the side of a 3-inch pine stump. The reference mark is a nail in cement in the center of a 4-inch vitrified pipe filled with and set in concrete. The pipe projects 3 inches above ground and is 20 inches long with the bottom 3 inches above the subsurface mark, which is a roundish bowlder marked with a cross. The reference mark is 30.584 meters (100.34 feet) from the station in azimuth 219° 18′. A 6-inch pine, blazed 2 feet above ground, is 12.975 meters (42.57 feet) from the station in azimuth 178° 19′. Another 6-inch pine, blazed 30 inches above the ground, is 9.71 meters (31.86 feet) from the station in azimuth 249° 03′.

Caffee (St. Marys County, P. M. Trueblood, 1919).—On northeast side of Potomac River, about 300 meters northwest of entrance to Blake Creek, and near the "County Landing." It is about 30 meters southeast of a fence and about 50 meters northwest of the end of the northwest arm of the creek, on hard, level ground (sod), about 15 feet above high water, about 30 meters from high-water mark, and 20 meters from edge of sod. The station and reference marks are bronze tablets set in concrete in tiles surrounded by concrete, as described in notes 6b and 13b, except that United States Ordnance tablets were used. The reference mark is in the open about halfway between station and fence, about 15 meters from the fence and 20 meters from edge of sod. Its relation to center mark not known.

Ragged Point 3 (Westmoreland County, Va., P. M. Trueblood, 1919).—On the southwest side of Potomac River, on Ragged Point, about 200 meters from the extreme end of the point and about 100 meters from high-water line on each side. It is in the edge of grass, near small pine trees and about 4 feet above high water. The station is marked by a bronze tablet set in concrete in a tile which is surrounded by concrete, as described in note 6b, except that a United States Ordnance tablet was used. There is no reference mark.

Mauldin (St. Marys County, P. M. Trueblood, 1919).—On eastern shore of Potomac River, 1.3 nautical miles north-northwest of Piney Point Light House, 600 meters northwest of Doctor Birch's residence, and on his property, about 10 meters back from edge of a 5-foot bank and 5 meters south of a fence which has a row of cedar trees along it. The station and reference marks are bronze tablets set in concrete in tiles surrounded by concrete, as described in notes 6b and 13b, except that United States Ordnance tablets were used.

Snake (Westmoreland County, Va., P. M. Trueblood, 1919).—On west side of Potomac River, about 1.1 nautical miles southerly from Ragged Point, 13 meters back from edge of bank 7 feet high, in edge of woods where trees are being undercut by erosion. The station and reference marks are bronze tablets set in concrete in tiles surrounded by concrete as described in notes 6b and 13b, except that United States Ordnance tablets were used. The reference mark is about 20 meters from the station in azimuth 99° 40′.8. A triangle blazed in a tree is 3 meters west of reference mark.

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Sandy Point 4 (Westmoreland County, Va., P. M. Trueblood, 1919).—On southwestern side of Potomac River, on eastern tangent of Sandy Point, 15 meters back from high-water line, and 5 meters back from highest point on beach. It is about 100 meters back from the end of an old wooden bridge over lagoon, 15 meters from edge of marsh in lagoon, and 2 feet above high-water. The station and reference marks are bronze tablets set in concrete in tiles surrounded by concrete as described in notes 6b and 13b, except that United States Ordnance tablets were used. The reference mark is 4 feet from edge of marsh and 1 foot above high-water. It is 10.36 meters (34.00 feet) from the station, and 40° 26′.4 to the left of a line to station *Ragged Point 3*.

St. George 5 (St. Marys County, P. M. Trueblood, 1919; 1921).—On northeast side of Potomac River, on southern point of St. George Island, known locally as Deep Point, about 100 meters from extreme end of point, about 45 meters south of clump of small locust trees and bushes, and 200 meters south of pine woods. It is 1 foot above and 10 meters back from high-water line, and 7 meters from a bank 2 feet high along beach. The station mark is a bronze tablet set in concrete in a tile surrounded by concrete, note 6b. Reference mark (1919), character unknown, is 43.63 meters (143.1 feet) from station in azimuth 148° 18′.9. Reference mark of the 1908 station, *St. George 4*, was found broken in chunks of tile and concrete; it was replaced in hole where found, on a sand ridge 4 feet high at edge of pine woods and 20 meters from high-water; it is 107.0 meters (351 feet) from the present station in azimuth 152° 13′.7.

Hog Island 4 (Westmoreland County, Va., P. M. Trueblood, 1919–20).—On southwest side of Potomac River, on southeast peninsula of Hog Island, on a sand dune 8 feet above high-water and 37 meters west of extreme northeast point, 40 meters from west shore of island, 6 meters from crest of sand dune, and about 15 meters from high-water line to north. The station and reference marks are bronze tablets set in concrete in tiles which are surrounded with concrete as described in notes, 6b and 13b except that U. S. Ordnance tablets were used. The reference mark is on a sand dune 3 feet high, which runs north and south near the center of the peninsula and 42.70 meters (140.1 feet) from the station in azimuth 334° 37′.1. Distances and azimuths from the station to other points of reference are as follows: 4-inch pine tree, 23.76 meters (78.0 feet), 26° 38′; 4-inch pine tree, 15.53 meters (51.0 feet), 56° 55′; point of beach, 37 meters, 226°; 4-inch pine tree, 17.03 meters (55.9 feet), 281° 54′.

Hall 2 (St. Marys County, P. M. Trueblood, 1919; 1920).—On the bank of the Potomac River, ½ mile northwest of Cornfield Point, and 150 meters south of James Hall's house. It is about 7 meters from the position of the station of 1901–1908, 5.5 meters from the edge of a caving bank 4 feet high, 7 meters from high-water line, 3.6 meters south of garden fence and in the corner of a cultivated field, but not likely to be disturbed by cultivation. The station mark is a bronze tablet (stamped "Hall 2, 1919") set in concrete in a tile pipe surrounded with concrete, note 6b. The reference marks of 1901 and 1908 were found undisturbed; they are 1 meter south of the garden fence and 15 and 21 meters, respectively, from the edge of the bank. Reference mark No. 1, center of standard cement monument of Maryland Shell Fish Survey, note 16, is 10.65 meters (34.9 feet) from station in azimuth 224° 42′; No. 2, a tile embedded in cement with nail in top, is 16.09 meters (52.8 feet) from station in azimuth 227° 53′.

Lee (Northumberland County, Va., H. B. Campbell, 1920).—On the south shore of Potomac River, $\frac{5}{6}$ nautical mile below the mouth of Cubitt Creek, on top of knoll at edge of bluff, and just above a wash in the bluff. Below the wash there is a great deal of heavy brush, and back of the station is a pine woods. The station is on the lower edge of a comparatively clear patch of grass about 15 meters in diameter, from which a road leads inland to the highway. It is about 30 feet above high-water and marked by a standard brass marker of the Bureau of Ordnance. Reference mark No. 1, a standard marker of the Bureau of Ordnance, is 19.94 meters (65.4 feet) from the station in azimuth 69° 28′. Reference mark No. 2, a brass pipe set in concrete on top of a little hummock, is 25.78 meters (84.6 feet) from the station in azimuth 29° 05′.

Block (Westmoreland County, Va., P. M. Trueblood, 1919).—On southern side of Potomac River, on a rounding point on west side of entrance to Machodoc

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River, 1.4 nautical miles east-southeast of Kingcopsico Point, on a sand ridge about 4 feet high and midway between high-water line and the edge of a pond, being about 3 meters from each. The station mark is a bronze tablet set in concrete in a tile surrounded by concrete as described in note 6b, except that a United States Ordnance tablet was used.

Firing Point front range trial (St. Marys County, P .M. Trueblood, 1919).—On northeast side of Potomac River, on extreme north point of St. George Island, about 200 meters west from Courtney's house, on land belonging to Fred Lewis, about 200 meters from end of marshy spit, 15 meters from high-water mark in line with Sandy Point, 12 meters from high-water mark in line with Piney Point Lighthouse, 17 meters from high-water mark in line with Swann's house, and 12 meters from edge of marsh in line with Courtney's house. It is on sand at edge of marsh, and is awash at high tide. The station mark is a bronze tablet, marked "F.P.F.R. trial," set in concrete in a tile surrounded with concrete, note 6b. It is 118.35 meters (388.3 feet) northwest of station *Firing Point front range.*

Firing Point front range (St. Marys County, P. M. Trueblood, 1919).—On northeast side of Potomac River, on north end of St. George Island, about 350 meters from extreme end of the spit, 200 meters southwest from Courtney's house, on cleared land (clay), about 1 foot above high-water. It is 23 meters from high-water mark on west side of island, and 25 meters from head of marsh which runs to northeast point of island. The station mark is a bronze tablet, stamped "Front Firing Point range," set in concrete in a tile surrounded by concrete, note 6b. Station *Firing Point front range trial* is 118.35 meters (388.3 feet) northwest of station.

Piney Point front range trial (St. Marys County, P. M. Trueblood, 1919).—On northeast side of Potomac River, on bare sand about 50 meters north of extreme end of Piney Point, about 25 meters from high-water mark on each side of point, and about 3 feet above high-water. It is 30.22 meters (99.1 feet) southeast of station *Piney Point front range.* The station mark is a bronze tablet, stamped, "Trial," set in concrete in a tile surrounded by concrete, note 6b.

Piney Point front range (St. Marys County, P. M. Trueblood, 1919).—On northeast side of Potomac River, on the bare sand, about 80 meters from extreme end of Piney Point, and 10 meters from high-water line on west side of point. The station is marked by a bronze tablet, stamped "Piney Point front range," in concrete in a tile surrounded by concrete, note 6b. The Trial Point is 30.22 meters (99.1 feet) to southeast.

4,000-yard rear range (St. Marys County, P. M. Trueblood, 1919).—On northeast side of Potomac River, along the west side of the road down the middle of St. George Island, abreast of the upper end of Island Creek, in a field belonging to J. C. Hobbs. It is about 300 meters south of the Catholic church, 1.10 meters (3.6 feet) west of west fence line of road, 67 meters north of north fence line of John W. Twilley's lot, and just at edge of plowed land. The station and reference marks are bronze tablets set in concrete in a tile surrounded by concrete, notes 6b and 13b. The station tablet is stamped "Rear range" and the reference tablet is stamped "R. M. 1." The reference mark is 1.12 meters (3.7 feet) west of west fence line of road, among some locust bushes; it is 20.13 meters (66.0 feet) south from station, and 46.9 meters (154 feet) north from the north fence line of Twilley's lot.

4,000-yard front range trial (St. Marys County, P. M. Trueblood, 1919).—On northeast side of Potomac River, on west side of St. George Island, abreast of upper end of Island Creek, in an orchard belonging to J. C. Hobbs, and about 350 meters south of the Catholic church. It is 100 meters south of a grove of trees marking where the Hobbs house formerly stood, and is on flat clay land, about 2 feet above high water, 19.3 meters (63 feet) from edge of bank, which is about 2 meters from high-water line, and 7.2 meters (24 feet) north of the south fence of the orchard. The station and reference marks are bronze tablets set in concrete in tile pipes surrounded by concrete, notes 6b and 13b. The station tablet is stamped "Trial." The reference mark is 0.5 meters (1.6 feet) north of the south fence line of orchard, and about 26 meters (85 feet) from edge of bank; it is 10.93 meters (35.9 feet) from station in azimuth 263° 40'.2. Station *front range* is 12.04 meters (39.5 feet) northwest of trial station.

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4,000-yard front range (St. Marys County, P. M. Trueblood, 1919).—On northeast side of Potomac River, on west side of St. George Island, abreast the upper end of Island Creek, in an orchard belonging to J. C. Hobbs, about 350 meters south of the Catholic church, 100 meters south of a grove of trees on point marking where Hobbs house originally stood. It is on flat clay land, 2 feet above high water, about 17 meters from edge of bank, 19 meters from high-water mark, and about 18 meters north of south fence line of the orchard. The trial station mark is 12.04 meters (39.5 feet) southeast of the station, and the trial station reference mark 22 meters distant. The station is marked by a bronze tablet, stamped "Front range 4,000," set in concrete in a tile surrounded by concrete, note 6b.

8,000-yard front range trial (St. Marys County, P. M. Trueblood, 1919; 1921).—On east bank of St. Marys River, 0.9 nautical mile northwest of Kitts Point, 200 meters northwest of an isolated clump of gum trees standing at outside edge of cultivated field, and almost on the line of a rail fence separating this from another cultivated field. It is 0.5 meter north of the fence line, and 7.5 meters from edge of rapidly caving bank which is 4 feet high. The shore is eroding rapidly along all these fields. The land belongs to the Jesuit Fathers. The station mark is a bronze tablet (stamped "8 T"), set in concrete in a tile, which is surrounded by concrete, note 6b. Station *front range* is 176.24 meters (578.2 feet) northwest from the station.

8,000-yard front range (St. Marys County, P. M. Trueblood, 1919; 1921).—On east bank of St. Marys River, 1 nautical mile northwest of Kitts Point, 0.2 mile southeast of another point covered with a scrub growth of evergreens, 175 meters northwest of a rail fence, and in a cultivated field belonging to the Jesuit Fathers, on flat clay land, 11.5 meters back from edge of a rapidly caving clay bank 5 feet high. The station mark is a bronze tablet set in concrete in a tile surrounded by concrete, note 6b. The concrete is spread out to make it conspicuous and the tablet is stamped "Front range 8,000." The trial station is 176.24 meters (578.2 feet) to the southeast.

8,000-yard rear range (St. Marys County, P. M. Trueblood, 1919; 1921).—At about the middle of the peninsula between St. Marys River and Smith Creek, at north edge of cultivated field, 68.8 meters west of west fence line of road, about 175 meters north of east end of creek, 205 meters south of prominent oak tree at bend of road, in a gum tree stump, one of a clump at corner of a cut-over wood lot, where it projects into the field. The station was marked eccentrically by a bronze tablet set in concrete in a tile surrounded by concrete, as described in note 6b. It is toward St. Marys River, in range with station *8,000-yard front range trial* and 3.64 meters (11.94 feet) from the station. The actual range passes 0.67 meters (2.2 feet) to the westward of the mark.

12,000-yard front range trial (St. Marys County, P. M. Trueblood, 1919).—On northeast side of Potomac River, on east side of entrance to Calvert Creek, on land belonging to William Curley, on sloping ground covered with heavy sod. It is 3 feet above high water, 10 meters from a 2-foot bank at edge of creek, where there was formerly a footbridge, 21 meters north of a 1-foot cedar stump in the sand at high-water line at entrance to creek, 9.24 meters (30.3 feet) west of the southwest corner of a pavilion, and 13.80 meters (45.3 feet) southwest of northwest corner of pavilion. The station mark is a bronze tablet (stamped "12 T"), set in concrete in a tile which is surrounded with concrete (note 6b). A 12-inch cedar tree is 44.18 meters (144.9 feet) from the station in azimuth 119° 11'.5. It is the nearest to the station and most westerly of a clump of five trees standing in low ground about 5 meters from the creek and well inside the entrance. A large mulberry tree is 19.5 meters (64 feet) from the station in azimuth 305° 37'. Station *12,000-yard front range* is 59.88 meters (196.5 feet) west-northwest from the station.

12,000-yard front range (St. Marys County, P. M. Trueblood, 1919).—On northeast side of Potomac River, on sand spit on west side of entrance to Calvert Creek, near the center and highest part of spit, 1.5 feet above high water, 26 meters from point where there was formerly a footbridge, 20 meters north of high-water line just outside the entrance at a point 27 meters from end of old footbridge, and in line with Gray Point. It is 24.5 meters (80 feet) from high-water line at marshy point inside the creek which is 20 meters from end of old footbridge. The marsh reenters the spit on the inside to a point about

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10 meters from the station in a direction opposite from tangent to Gray Point. The station mark is a bronze tablet in concrete in a tile surrounded by concrete, note 6b. Station *12,000-yard front range trial* is 59.88 meters (196.5 feet) southeasterly from the station.

12,000-yard rear range (St. Marys County, P. M. Trueblood, 1919).—At the head of Calvert Creek, on land jutting out between the two prongs of the creek, 3.2 meters back from edge of an 8-foot bank, in the edge of a garden and 65 meters southwest of the house of a man named Waggman. The bank is covered with a heavy growth of underbrush. The station is 10.8 meters (35.4 feet) south of an old pear tree which stands alone in a garden, 10 meters (33 feet) northwest of a cherry tree at edge of bank, and 45 meters west of the garden fence. The station and reference marks are bronze tablets set in concrete in tile surrounded by concrete (notes 6b and 13b). The reference mark is in the yard, 0.5 meter from the garden fence, 11 meters from a 6-inch walnut tree which is in line with station *12,000-yard front range*, 20 meters from high water and 21.69 meters (71.2 feet) from the nearest chimney of a frame house with brick ends. It is 46.13 meters (151.3 feet) from the station. At the reference mark, the directions to the station and the chimney are, respectively, 87° 46′.7 and 197° 26′.0 to the right of a line to station *12,000-yard front range.*

16,000-yard rear range (St. Marys County, P. M. Trueblood, 1919).—On north side of Potter Creek, on Frank Smith's place, 450 meters east of an old house, in an old pasture, 10 meters (33 feet) north of north fence line, a private road running east from house, 11.2 meters (37 feet) west of the west fence line of this same road after it turns north to a barn, and 17 meters (56 feet) from gate at corner where road turns. The station and reference marks are bronze tablets set in concrete in tile surrounded by concrete, as described in notes 6b and 13b. The reference mark is in the corner of the road, about 2 meters west and 2 meters north of the gate; and 15.34 meters (50.3 feet) from station in bearing S. 35° E. (mag.).

Rogers Creek (Northumberland County, Va., P. M. Trueblood, 1919).—On the south side of Potomac River, near Rogers Creek, 4.5 nautical miles, in azimuth 308° from fixed white light at entrance to Coan River. Station is 9.5 meters back from the edge of a clay bank 10 feet high, about 60 meters from fence at northwest corner of field, 2 meters from edge of cultivated land, and in an opening in the brush and small trees which cover the 10-meter strip of ground along top of bank. The station is marked by a bronze tablet set in concrete in a tile surrounded by concrete, as described in note 6b. Two reference marks were set in the edge of the strip of bushes, and about 1 meter from edge of plowed ground. They consist of 20-penny nails in top of drain tiles set in and filled with cement. They were at the following distances and azimuths from the station: 35.19 meters (115.5 feet), 293° 19′, and 30.15 meters (98.9 feet), 97° 04.5′.

Bye (Northumberland County, Va., Bureau of Ordnance, 1920).—On the southerly shore of Potomac River, about on the center of the point (Great Point) located 1.4 miles below Lewisetta, about 6 feet back from the edge of the bluff, about 8 feet above high water, and surrounded by pine woods and brush. The station is marked by a standard brass marker of the Bureau of Ordnance. The reference mark, supposed to be a standard marker of the Bureau of Ordnance, is 10.93 meters (35.9 feet) from the station in azimuth 39° 49.3′.

16,000-yard front range trial (St. Marys County, P. M. Trueblood, 1919).—On northeast shore of Potomac River, 48 meters southeast of present (1919) entrance to Potter Creek which is about 400 meters southeast of entrance shown on chart. Station is in edge of marsh, at northeast edge of a pine woods which stretches northeast from Hall house; it is 8 meters from high-water line, and 19 meters northwest of solid ground near beach. The station and reference marks are bronze tablets (Bureau of Ordnance) in concrete in tiles as described in notes 6b and 13b. The reference mark, on which the arrow points away from the station, is on level ground, 5 meters from edge of swamp, 17 meters from the bank along shore, in the edge of the woods, and 27.98 meters (91.8 feet) from the station, in azimuth 325° 10′. Station

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16,000-yard front range is 36.72 meters (120.5 feet) south-southeast from the station. The cupola of Frank Smith's barn is about 500 meters from the station, in azimuth 182° 37′.

16,000-yard front range (St. Marys County, P. M. Trueblood, 1919).—On eastern side of Potomac River, about 3 miles above Point Lookout, on level ground in the edge of the woods, about 1 mile northwest of the Hall house, and about 500 meters south of Frank Smith's house. It is about 85 meters south of entrance of Potter Creek, 19 meters south of edge of marsh, and 9 meters from edge of bank 3 feet high along shore. A cut through the undergrowth and scrub trees marks the location. Station marked according to note 6b, the disk being stamped "Front Range 16,000." The trial station is 37 meters north-northwest from station. The station is marked by a bronze tablet, stamped "Front range 16,000," in concrete in a tile surrounded by concrete, as described in note 6b. Station *16-000-yard front range trial* is 36.72 meters (120.5 feet) north-northwest from the station.

20,000-yard front range trial (St. Marys County, P. M. Trueblood, 1919).—On northeastern side of Potomac River, on beach in Cornfield Harbor, 0.8 nautical mile northwest of Point Lookout Lighthouse, 0.3 mile southeast of the old oysterhouse at the entrance to Point Lookout Creek, and in the southeast edge of woods. The location is marked by a narrow lane cut through low trees to creek. The station is on flat-topped sand dune, 4 feet high, 12 meters back from high-water line, 6 meters back from edge of sand bank 2 feet high, and 50 meters from edge of creek measured through cut lane. Marked by a 6-inch tile set in and filled with cement, with small cross cut in surface. Station *20,000-yard front range* is 9.08 meters (29.79 feet) east from the station.

20,000-yard front range (St. Marys County, P. M. Trueblood, 1919).—On northeast side of Potomac River, on beach in Cornfield Harbor, 0.8 nautical mile northwest of Point Lookout Lighthouse, 0.3 mile southeast of old oysterhouse at entrance to Point Lookout Creek, at southeast edge of pine woods. The location is marked by narrow lane cut through low trees to creek. The station is marked by a bronze tablet in concrete in a tile surrounded by concrete, as described in note 6b. The tablet is stamped "Front range 20,000." Station *20,000-yard front range trial* is 9.08 meters (29.79 feet) westerly from the station.

20,000-yard rear range (St. Marys County, P. M. Trueblood, 1919).—About 1 mile north of Point Lookout Lighthouse, about midway between the river and the bay. It is east of the southeast arm of Point Lookout Creek, about 120 meters west of a county road, in an old Civil War prison camp (known locally as "bull pen") which is about 100 meters square and is surrounded by an earth embankment about 10 feet high and a boggy moat 5 meters wide. The entire space is overgrown with pine trees up to 1 foot in diameter. Station is at top of inside slope of west bank, about 35 meters from southwest corner, 60 meters from northwest corner, and 5 meters inside middle of bank. Station is in pine tree 50 feet high and falls within the trunk at base of tree. It is marked eccentrically by a bronze tablet set in a square block of concrete, as described in note 1a. It is placed in line with station *20,000-yard front range* and 1.54 meters (5.05 feet) from the station.

Miller (Northumberland County, Va., H. B. Campbell, 1920).—On the southerly shore of Potomac River, about 1.7 nautical miles above the mouth of the Little Wicomico River, on top of bank, about 30 feet inshore from top of bluff, and 10 feet west of a low rail fence. The fields on the sides of the fence are cultivated to the edge of the bluff, and the station is directly in line with a footpath leading inland along the fence; it is about 25 feet above high water, and marked by a standard brass marker of the Bureau of Ordnance (note 6b). The reference mark is a bronze tablet set in concrete (note 13b) about 4 feet northwest of a good-sized holly tree growing next to the fence, and is 14.49 meters (47.5 feet) from the station in azimuth 30° 02′.

Navy west (Northumberland County, Va., H. B. Campbell, 1920).—Near the south side of the mouth of Potomac River, about 2½ miles above the mouth of Little Wicomico River and about 550 meters offshore. It is the northwesterly of two calibration towers. The station is in the inshore corner of the tower on the top floor and marked by a tack driven in the center of a rough triangle of tacks in the floor. A 3 by 4 inch signal pole was used.

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Navy east (Northumberland County, Va., H. B. Campbell, 1920).—At the south side of the mouth of Potomac River, 1.6 miles above the mouth of Little Wicomico River and about 100 meters offshore. It is more southeasterly of two calibration towers. The station is the inshore corner of the top floor of the tower and marked by a rough triangle of tacks in the floor. A 3 by 4 inch signal pole was used.

Hall's house, middle chimney (St. Marys County, J. E. McGrath, 1901; 1908).—On the northeastern shore of Potomac River, about ⅝ mile northwest of Cornfield Point and about 150 yards inshore from the river bank. Station is center of middle chimney on large frame house belonging to a Mr. Hall.

SMITH CREEK

Tab (St. Marys County, O. W. Ferguson, 1908).—On western shore of Smith Creek, on second prominent point from entrance to creek, and about ¾ mile west-southwest of Millers Wharf. Station is about 5 feet above high water, 2 yards north of edge of bank, 5 feet south of edge of bank, 14 yards southwest of low point, 16 yards north of another low point, 31 yards southeast of still another point, and 58 yards east of a wild-cherry tree. Marked by center of 4-inch tile pipe filled with cement, with top flush with surface of ground. One reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 14.53 meters (47.7 feet) from station in azimuth 61° 14′. The other reference mark is center of tile pipe set in cement, its top even with surface of ground; it is 47.93 meters (157.3 feet) from station in azimuth 61° 25′. Distances and azimuths to other points of reference are as follows: Right one of two cedar trees, 55 yards, 18° 32′; wild-cherry tree, 31 yards, 103° 30′; near peak of large house, ½ mile, 168° 09′; near peak of roof of Dunbar's house, 1¼ miles, 242° 08′; left chimney of house with ⌊, ½ mile, 264° 35′; left chimney of house, ½ mile, 283° 15′; near peak of roof of old hotel, ½ mile, 297° 49′.

Sig (St. Marys County, O. W. Ferguson, 1908).—On northwestern shore of Potomac River, on eastern side of Calvert Bay, on Gray Point, in edge of scrub growth, and about 15 feet above high water, and 3 feet east of edge of bank. Marked by nail in the northern one of two stumps 2½ inches in diameter. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 12.75 meters (41.8 feet) from station in azimuth 238° 17′. Distances and azimuths to other points of reference are as follows: Tall pine tree on Kitts Point, 1¾ miles, 118° 05′; chimney of house on Kitts Point, 1⅝ miles, 119° 58′; large chimney of Lewis's house, 1¼ miles, 143° 53′; left chimney of Collison's house, ¾ mile, 161° 25′; near peak of house, 1¾ miles, 176° 16′; nail in blaze in 3-inch holly tree, 4.57 meters (14.99 feet), 214° 03′; nail in blaze in 3-inch gum tree, 5.16 meters (16.93 feet), 254° 16′; nail in blaze in 4-inch pine tree, 6.75 meters (22.15 feet), 312° 39′.

Dago (St. Marys County, O. W. Ferguson, 1908).—On eastern side of entrance to Smith Creek, about ½ mile south-southwest of Millers Wharf, in a small garden about 6 feet above high water, 40 yards north of an old hotel, 65 yards east of shore, and 165 yards southeast of a lumber wharf. Marked by a tile pipe set in cement; top of tile is broken off about 9 inches below surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is in a fence line, and is 29.41 meters (96.5 feet) from station in azimuth 101° 46′. Distances and azimuths from the station of other points of reference are as follows: Northwest corner of old hotel, 37.67 meters (123.6 feet), 40° 00′; 8-inch tree, 42 yards, 83° 34′; chimney of house across creek, ⅝ mile, 128° 58′; near corner of house, 160 yards, 211° 05′; near corner of barn, 100 yards, 211° 05′; northeast corner of old hotel, 51.97 meters (170.5 feet), 347° 01′.

In (St. Marys County, O. W. Ferguson, 1908).—On the northern shore of Smith Creek, on point between two main branches of creek, and about ¼ mile northwest of Millers Wharf. Station is on grass point which is surrounded by small bowlders and cobblestones visible at low water, is about 2 feet above high water, 2 yards east of side of point, 3 yards northwest of side of point, 10 yards north-northeast of extreme end of point, and near three trees. Station marked by 2-inch square stick in center of 4-inch tile pipe filled with and set in cement, with top about flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is

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9.32 meters (30.58 feet) from station in azimuth 187° 09′. Distances and azimuths from the station of other points of reference are as follows: Right peak of roof of old hotel, ⅝ mile, 3° 10′; left tangent of point of land, ⅞ mile, 30° 19′; right chimney of large house, ½ mile, 65° 55′; nail in blaze in 7-inch cedar tree, 2.03 meters (6.66 feet), 162° 17′; nail in blaze in 14-inch cedar, 5.33 meters (17.49 feet), 205° 54′; nail in blaze in 20-inch cedar tree, 11.24 meters (36.9 feet), 214° 49′; 24-inch cedar tree, 40 yards, 243° 58′; right peak of Dunbar house, ⅝ mile, 257° 16′; front peak of large house, ½ mile, 270° 37′; near peak of roof of house, ⅞ mile, 342° 02′.

Pier (St. Marys County, O. W. Ferguson, 1908).—On eastern side of Smith Creek, at steamboat landing known as Millers Wharf. Station is on side of snubbing post on north corner of Millers Wharf, 1.46 meters (4.79 feet) from northeast side of wharf, and 0.79 meter (2.59 feet) from northwest side. Nails in post mark side where staff was fastened to post.

Drum (St. Marys County, C. C. Yates, 1908).—On the northwestern shore of the northeastern branch of Smith Creek, about ¼ mile north-northeast of Millers Wharf. The station is on marshland on a point opposite Millers Wharf, about 21 yards north of shore, 22 yards west of shore, 25 yards northeast of shore, and 35 yards southeast of a cultivated field with several cedar trees along its edge. The station mark is the center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: West gable of old hotel, ½ mile, 24° 41′; large chimney of house, ½ mile, 228° 30′; north gable of tobacco barn, ¾ mile, 229° 23′; flagstaff on Dunbar pavilion, ¼ mile, 257° 24′; north gable of house, ½ mile, 272° 10′; left chimney of 2½-story house, ¼ mile, 290° 05′; left chimney of Moore's house, ¼ mile, 292° 33′; north gable of stable, ¼ mile, 300° 46′; left chimney of 2½-story house, ⅜ mile, 312° 15′; chimney on 1½-story house, ½ mile, 323° 20′; cupola of barn ¼ mile, 349° 31′.

Enough (St. Marys County, C. C. Yates, 1908).—On the southeastern shore of northeastern branch of Smith Creek, about ¼ mile east-northeast of Millers Wharf, on a lightly wooded bank about 12 feet above high water, 5 yards back from edge of bank, 40 yards southwest of a house, and 45 yards northwest of a barn. The station mark is a hole in a 3-inch square stub with the top about 3 inches above surface of ground. The reference station is center of a standard cement monument of the Maryland Shell Fish Survey, note 16. It is near a fence, 19.75 meters (64.8 feet) from the station in azimuth 199° 51′. Distances and azimuths from the station to various points of reference are as follows: North gable of store at Wynne, ¼ mile, 63° 45′; chimney of house, ½ mile, 199° 11′; near gable of Logan Dunbar's house, 40 yards, 212° 08′; west post of small gate, 28 yards, 233° 36′; north gable of barn, 45 yards, 308° 55′; north chimney of Fred Dunbar's house, ¼ mile, 328° 17′; east chimney of 2-story house, ½ mile, 346° 23′.

Oak (St. Marys County, O. W. Ferguson, 1908).—On the western shore of Smith Creek, at entrance to northwestern branch of creek, about ½ mile west of Millers Wharf. Station is in pasture, about 6 feet above high water, 15 yards south-southeast of center of clump of trees, 20 yards south of shore, 28 yards north of shore, and 45 yards west of extreme end of point. Station marked by square hole in cement in a 4-inch tile pipe set in cement. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 14.87 meters (48.8 feet) from station in azimuth 126° 48′. Distances and azimuths from the station of other points of reference are as follows: Near peak of roof of large barn, ¼ mile, 49° 29′; large cherry tree, 157 yards, 81° 29′; nail in blaze in oak stump (20 inches diameter), 23.14 meters (75.9 feet), 128° 49′; nail in blaze in 8-inch hickory tree, 14.58 meters (47.8 feet), 131° 42′; nail in blaze in double oak tree (8 inches diameter) 13.69 meters (44.9 feet), 157° 10′; nail in blaze in 4-inch hickory tree, 7.37 meters (24.18 feet), 175° 52′; blaze in 30-inch oak stump, 2.04 meters (6.69 feet), 249° 17′; front peak of house, ⅞ mile, 269° 55′; near peak of roof of small 2-story house, ½ mile, 309° 49′; middle chimney of T-shaped house, ⅝ mile, 327° 24′; near corner of old hotel, ⅝ mile, 336° 43′.

Out (St. Marys County, O. W. Ferguson, 1908).—On the eastern shore of the northwestern branch of Smith Creek, about ⅛ mile north of the main body of Smith Creek, on a sand and marsh point about 1 foot above high water, 6 yards north of shore, 7 yards southeast of shore, 24 yards east of extreme end of point, and 7 yards west of cultivated field. Station marked by 2-inch

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pine stub set in cement. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 6.96 meters (22.83 feet) from station in azimuth 262° 50′. Distances and azimuths to other points of reference are as follows: Tangent to Kitts Point, ⅞ mile, 21° 55′; left chimney of 2-story house, ½ mile, 51° 29′; east peak of barn, ½ mile, 55° 28′; chimney of small house on opposite shore, 1 mile, 143° 15′; windmill, ⅜ mile, 158° 12′; nail in blaze in pine tree, 8.17 meters (26.80 feet), 205° 03′; nail in blaze in holly tree, 6.27 meters (20.57 feet), 295° 34′; between two chimneys of Morris's house, ½ mile, 346° 55′; chimney of house near old hotel, ¾ mile, 353° 06′; west gable of old hotel, ¾ mile, 354° 57′.

Stung (St. Marys County, C. C. Yates, 1908).—On the western shore of the northwestern branch of Smith Creek, about ¾ mile northwest of Millers Wharf, ¼ mile northwest of the main body of Smith Creek. The station is on solid ground of a point making out just above a small cove, about 2 feet above high water, 7 yards south of shore, 9 yards northwest of shore, 15 yards southwest of extreme end of point, and 45 yards from a growth of young pine trees. The station is marked by center of standard cement monument of the Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Nail in blaze in 5-inch oak tree, 6.08 meters (19.95 feet), 27° 21′; windmill, ⅜ mile, 203° 17′; left chimney of 2½-story house, 1 mile, 286° 12′; left chimney of house at Wynne, ¾ mile, 305° 35′; left chimney of Morris's house, ¾ mile, 325° 27′; left chimney of large house, ⅞ mile, 329° 42′.

Jutland (St. Marys County, C. C. Yates, 1908).—On the northeastern shore of the northwestern branch of Smith Creek, about ½ mile north of the main body of the creek, on a point of marsh land between two coves, about 1 foot above high water, 2 yards north of shore, 4 yards south of shore, 5 yards east of extreme end of point, and 11 yards from bank with large cedar trees on its edge and a peach orchard back of the trees. The station is marked by a nail in a stub with top flush with surface of the ground. The reference mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16. It is 10.36 meters (34.0 feet) from the station in azimuth 266° 28′. Distances and azimuths from the station to other points of reference are as follows: East gable of barn, ¾ mile, 26° 27′; southeast gable of small house, ¾ mile, 110° 03′; chimney of small house, ¾ mile, 139° 21′; windmill, ¼ mile, 171° 16′; nail in blaze in cedar tree, 11.65 meters (38.2 feet) 269° 44′; two chimneys of Morris's house, ¾ mile, 340° 09′; chimney of house near old hotel, 1 mile, 346° 21′; west gable of old hotel, 1 mile, 347° 26′.

Flat (St. Marys County, O. W. Ferguson, 1908).—On western shore of northwestern branch of Smith Creek, about ¾ mile north-northwest of main body of Smith Creek, between two coves, on point of marsh about 1 foot above high water, 5 yards south of shore, 10 yards west of extreme end of point, and 12 yards from a field 5 feet higher than marsh. Station marked by a 2-inch square pine stub with top about 3 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 10.41 meters (34.2 feet) from station in azimuth 65° 00′. Distances and azimuths to other points of reference are as follows: Blaze in pine tree, 14.12 meters (46.3 feet), 57° 01′; chimney of house, ¼ mile, 89° 56′; chimney of small house, ¼ mile, 150° 05′; chimney of house, ½ mile, 175° 57′; between two chimneys on Morris's house, 1 mile, 331° 47′; chimney of house near old hotel, 1¼ miles, 338° 29′; west gable of old hotel, 1¼ miles, 339° 08′.

Flagpole (St, Marys County, C. C. Yates, 1908).—On the northeastern shore of the northwestern branch of Smith Creek, about ¾ mile north-northwest of the main body of Smith Creek. The station is a flagpole on the east gable of the front of the residence on the Jutland farm.

Ran 2 (St. Marys County, C. C. Yates, 1908).—On eastern shore of northwestern branch of Smith Creek, on point opposite a small cove and about ⅞ mile north-northwest of main body of Smith Creek. Station is on narrow sand and marsh point, about 1 foot above high water, 3 yards north of shore, 3 yards south of shore, 11 yards east of extreme end of point, and in front of a bank 8 or 9 feet high covered with honeysuckle and several large trees. Station marked by hole in stub with top about 6 inches above surface of marsh. Reference mark is center of standard cement monument of Maryland Shell

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Fish Survey, note 16; it is 13.74 meters (45.1 feet) from station in azimuth 267° 50′. Distances and azimuths to other points of reference are as follows: East peak of barn, ½ mile, 68° 01′; chimney of small house, 250 yards, 114° 06′; small blazed apple tree, 18.88 meters (61.9 feet), 259° 56′; windmill, ⅛ mile, 317° 20′; chimney of Morris's house, 1⅛ miles, 338° 29′; large chimney of house near old hotel, 1⅜ miles, 343° 25′; west peak of old hotel, 1⅜ miles, 344° 09′.

ST. MARYS RIVER

Day (St. Marys County, C. C. Yates, 1908).—On the northeastern shore of Potomac River, about ¼ mile northwest of Kitts Point between entrances to St. Marys River and Smith Creek. Station is on small island of firm ground on a marsh point, about 5 feet above high water, 3 yards east of shore, 20 yards northeast of shore, 18 yards north of extreme end of point, and 150 yards south of large lone dead tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Near peak of roof of 2½-story house, 3 miles, 112° 46′; near peak of roof of brick house, 3⅛ miles, 139° 07′; tall pine on Kitts Point, 150 yards, 164° 11′; chimney of old house, ⅛ mile, 208° 38′; near peak of roof of tobacco house, ⅛ mile, 250° 14′; near peak of roof between two chimneys, ¼ mile, 271° 30′.

Labor (St. Marys County, C. C. Yates, 1908).—On the northeastern shore of Potomac River, on western side of entrance to St. Marys River, on a small island forming the southeastern end of St. George Island. Station is on a marsh grass point about level with high water, 5 yards north of side of point, 5 yards west of side of point, 8 yards northwest of extreme end of point, 65 yards southwest of another point, 65 yards north-northeast of still another point, and 125 yards southeast of a small pine woods across slough. Station mark is nail in stub with top flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 13.56 meters (44.5 feet) from station in azimuth 115° 54′. Distances and azimuths to other points of reference are as follows: Left tangent of woods on St. George Island, ½ mile, 72° 31′; inside corner of Poe's house on St. George Island, ½ mile, 95° 11′; near peak of roof of Crowder's house, 1 mile, 147° 19′; right chimney of old house, 2½ miles, 270° 30′.

Between (St. Marys County, C. C. Yates, 1908).—On the eastern shore of St. Marys River, about 1¼ miles northwest of Kitts Point, the point at entrance to river, in a pasture about 3 feet above high water, 5 yards northeast of edge of bank, 5 yards southeast of a rail fence, 12 yards southwest of shore of creek, and 7 to 10 yards west to northwest of persimmon trees. Station mark is nail in stub flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 14.42 meters (47.3 feet) from station in azimuth 303° 38′. Distances and azimuths to other points of reference are as follows: Chimney of house at edge of woods, 2⅛ miles, 63° 44′; chimney of house beyond middle of woods, 2¼ miles, 69° 15′; chimney of large house with ell, 2⅜ miles, 76° 49′; chimney of 2½-story house, 3⅛ miles, 99° 31′; near peak of roof of brick house between two chimneys, 2¾ miles, 133° 31′; nail in blaze in 4-inch persimmon tree, 5.87 meters (19.26 feet), 145° 46′; nail in blaze in 4-inch persimmon tree, 6.94 meters (22.77 feet), 173° 27′; nail in blaze in 5-inch persimmon tree, 9.34 meters (30.64 feet), 279° 26′; tall pine on Kitts Point, 1⅛ miles, 331° 54′.

Pond (St. Marys County, C. C. Yates, 1908).—On the western shore of St. Marys River, on Pond Point, about ⅞ mile north-northeast of Cherryfield Point, the point at entrance to St. George River. Station is on marshland, at edge of woods, about on level with high water, 6 yards west of edge of marsh, 7 yards south of edge of marsh, 25 yards northeast of edge of marsh, and 20 to 30 yards north and east of pine trees. Station mark is nail in stub. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 2959 meters (97.1 feet) from station in azimuth 77° 28′. Distances and azimuths to other points of reference are as follows: Tangent of Cherryfield Point, ¾ mile, 11° 20′; nail in blaze in 12-inch pine tree, 22.93 meters (75.2 feet), 50° 19′; nail in blaze in 20-inch pine tree, 25.53 meters (83.8 feet), 87° 07′; nail in blaze in 18-inch pine tree, 17.40 meters (57.1 feet), 126° 41′; canning-house stack, 1½ miles, 149° 43′; near peak of house on Bromes Wharf, 3½ miles, 201° 41′; center of left tower on Kennedy's house,

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1⅞ miles, 217° 40′; chimney of Taylor's house, 1¼ miles, 274° 41°; tall pine on Kitts Point, 3 miles, 318° 04′.

Fort (St. Marys County, C. C. Yates, 1908).—On the eastern shore of St. Marys River, on Fort Point, about 2¼ miles north of entrance to river, and ⅞ mile south of Priests Point. Station is in cultivated field about 15 feet above high water, 16 yards east of edge of bank, 70 yards west by south of a house, and 34 yards south-southwest of a corner of a fence. Station mark is nail in stub with top flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 32.17 meters (105.5 feet) from station in azimuth 202° 20′. Distances and azimuths to other points of reference are as follows: Chimney of 2½-story house with ell, 2⅛ miles, 56° 14′; canning-house stack, 2½ miles, 123° 47′; near peak of roof of stable, 2⅛ miles, 152° 08′; near chimney of Taylor's house, 70 yards, 248° 28′; chimney of small building, 250 yards, 276° 22′.

Rod (priests' house) (St. Marys County, C. C. Yates, 1908).—On the eastern shore of St. Marys River, on Priests Point, at south side of entrance to St. Inigoes Creek. Station is lightning rod on the center ventilator on middle of roof of priests' villa, the summer residence of the Society of Jesus (or Jesuit order).

Thompson (St. Marys County, C. C. Yates, 1908).—On the western shore of St. Marys River, about ⅜ mile east-northeast of entrance to Carthagena Creek, ⅝ mile southwest of Windmill Point, and 1 mile north of Pond Point, in a cultivated field about 20 feet above high water, 5 yards southwest of edge of bank, 6 yards northeast of edge of bank, and 7 yards west of extreme edge of bank. Station mark is center of 3-inch square pine box with top flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top about 10 inches below surface of ground. It is 25.00 meters (82.0 feet) from station in azimuth 143° 07′. Distances and azimuths to other points of reference are as follows: Nail in large dying pine tree, 7.69 meters (25.23 feet), 16° 32′; chimney outside of small house, ¾ mile, 29° 46′; left peak of roof between two chimneys, ¾ mile, 36° 32′; right peak of roof of house, ¼ mile, 158° 59′; right piazza post of Kennedy's house, 1¼ miles, 249° 51′; left chimney of Raley's house, 1½ miles, 272° 11′; near peak of roof of Taylor's house, 1⅞ miles, 312° 11′.

Grind (St. Marys County, C. C. Yates, 1908).—On the western side of St. Marys River, in water just off Windmill Point, and opposite entrance to St. Inigoes Creek. Station is in about 4 feet of water, 45 yards east-southeast of extreme end of point, and 120 yards northeast of another point. Station mark is nail in stub in water. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 81.36 meters (266.9 feet) from station in azimuth 81° 40′. Distances and azimuths to other points of reference are as follows: Left peak of roof between two chimneys on brick house, 1½ miles, 49° 21′; left corner of left chimney on house at Portobello, 1½ miles, 170° 39′; near peak of roof on Bromes Wharf house, 2 miles, 201° 23′; right piazza post on Kennedy's house, ¾ mile, 258° 47′; left peak of roof of Raley's house, ⅞ mile, 297° 02′.

Kennedy (St. Marys County, C. C. Yates, 1908).—On the eastern shore of St. Marys River, about ⅛ mile north of entrance to St. Inigoes Creek and ⅜ mile east-northeast of Windmill Point, in a garden about 25 feet above high water, 30 yards northwest of edge of bank at wire fence, 65 yards west-southwest of a house, 18 yards south of a fence, and 52 yards south of a paling fence. Station mark is center of a 3-inch square wooden box. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 20.25 meters (66.4 feet) from station in azimuth 217° 04′. Distances and azimuths to other points of reference are as follows: Near peak of roof of barn, ⅞ mile, 94° 09′; near peak of roof of building, 1½ miles, 114° 54′; nail in blaze in 12-inch locust tree, 13.21 meters (43.3 feet), 145° 30′; near corner of shed, 57 yards, 217° 29′; left back piazza post, 60 yards, 258° 05′; chimney of cabin, 120 yards, 287° 53′; chimney on top of Raley's house, ½ mile, 341° 48′.

Raley (St. Marys County, C. C. Yates, 1908).—On the southeastern side of entrance to St. Inigoes Creek, about ½ mile northeast of Priests Point and ⅞ mile east-southeast of Windmill Point, in a cultivated field about 15 feet above high water, 40 yards southeast of edge of bank, 40 yards west of edge of ravine, and 135 yards north of a barn. Station mark is center of standard cement

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monument of Maryland Shell Fish Survey, note 16; with top about 12 inches below surface of ground. Surface mark is center of 3-inch square wooden box. Distances and azimuths to various points of reference are as follows: Right peak of roof of barn, 135 yards, 6° 17′; near peak of corncrib, 150 yards, 42° 36′; near corner of near chimney of Raley's house, 150 yards, 60° 01′; large tree, 100 yards, 83° 54′; chimney of Kennedy's house, ½ mile, 152° 52′; chimney of small house, ½ mile, 206° 25′; near peak of roof of wharf house, ⅝ mile, 218° 19′; chimney of house among trees, ⅝ mile, 228° 29′; chimney of small house, ½ mile, 262° 10′.

Chan (St. Marys County, C. C. Yates, 1908).—On the eastern shore of St. Marys River, on Chancellor Point, about ⅞ mile north-northwest of entrance to St. Inigoes Creek, on a long point about 3 feet above high water, 10 yards north of side of point, 12 yards south of side of point, 17 yards east of extreme end of point, and near cedar trees. Station mark is center of 3-inch square wooden box. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 14.14 meters (46.4 feet) from station in azimuth 281° 51′. Distances and azimuths to other points of reference are as follows: Weather vane on barn, ¾ mile, 45° 25′; silo at Portobello, ¾ mile, 132° 00′; chimney of house, 1 mile, 152° 27′; left peak of roof between two chimneys, 1⅛ miles, 166° 46′; left chimney of house on Pagan Point, 1½ miles, 183° 06′; near peak of roof of Bromes Wharf house, 1⅜ miles, 201° 18′; nail in blaze in 12-inch cedar tree 4.47 meters (14.67 feet), 266° 26′; nail in blaze in 15-inch cedar tree, 31.61 meters (103.7 feet), 280° 03′; nail in blaze in 18-inch cedar tree, 13.99 meters (45.9 feet), 300° 27′.

Coppage (St. Marys County, C. C. Yates, 1908).—On the western shore of St. Marys River, about ¼ mile south of entrance to Cooper Creek, and ⅞ mile northwest of Windmill Point, near densely wooded land, about 25 feet above high water, 5 yards southwest of edge of bank, 6 yards south of edge of bank, 10 yards west of point with cedar tree, and 200 yards west of remains of a pier. Station mark is center of 3-inch square wooden box with top flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 11.50 meters (37.7 feet) from station in azimuth 83° 21′. Distances and azimuths to other points of reference are as follows: Nail in blaze in 3-inch pine tree, 7.68 meters (25.2 feet), 47° 36′; nail in blaze in 3-inch gum tree, 10.96 meters (36.0 feet), 78° 41′; nail in blaze in 12-inch gum tree, 7.32 meters (24.02 feet), 152° 41′; chimney of St. Marys Seminary, 2 miles, 224° 38′; near peak of roof on Bromes Wharf house, 1⅞ miles, 225° 25′; chimney of Brome's house, 1⅞ miles, 232° 53′; chimney of house, ⅞ mile, 266° 51′; chimney of Kennedy's house, 1¼ miles, 291° 33′; left chimney of Raley's house, 1⅝ miles, 306° 20′; chimney of priests' villa, 1⅝ miles, 315° 17′; chimney, ½ mile, 318° 56′.

Bello (St. Marys County, C. C. Yates, 1908).—On the western shore of St. Marys River, on Portobello Point, about 1¼ miles north of Windmill Point. Station mark is flagpole on northeast peak of wharf house at Portobello Landing.

Gravel (St. Marys County, C. C. Yates, 1908).—On the eastern shore of St. Marys River, about ⅜ mile north-northeast of Chancellor Point, ⅝ mile east of Portobello Point, on gravel washed up between river and slough, about on level with high water, 2 yards north of gravel and marsh line, 35 yards east-northeast of outlet of slough, and 65 yards southwest of point where woods and river meet. Station mark is nail in stub. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 26.99 meters (88.5 feet) from station in azimuth 266° 03′. Distances and azimuths to other points of reference are as follows: Weather vane on barn, 1⅛ miles, 40° 18′; between two chimneys on house near Portobello, ¾ mile, 100° 26′; near peak of roof between two chimneys at Portobello, ⅝ mile, 104° 04′; house on Pagan Point, 1⅛ miles, 173° 42′; near peak of roof of Bromes Wharf house, 1 mile, 197° 07′; nail in blaze in 20-inch pine tree, 30.95 meters (101.5 feet), 243° 48′; nail in blaze in 18-inch pine tree, 22.75 meters (74.6 feet), 264° 25′; nail in blaze in 20-inch pine tree, 21.11 meters (69.3 feet), 291° 07′.

McKay (St. Marys County, C. C. Yates, 1908).—On the western shore of St. Marys River, about ½ mile north-northeast of Portobello Point, and ⅝ mile west-southwest of Bromes Wharf. Station is about on level with high water, 14 yards south of fence extending into water, and at edge of woods. Station

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mark is center of 3-inch square wooden box. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 8.12 meters (26.64 feet) from station in azimuth 71° 35′. Distances and azimuths to other points of reference are as follows: Weather vane on barn, 1½ miles, 14° 12′; nail in blaze in 3-inch locust tree, 6.82 meters (22.38 feet), 49° 58′; nail in blaze in 8-inch gum tree, 3.48 meters (11.42 feet), 143° 11′; nail in blaze in 8-inch willow tree, 8.25 meters (27.07 feet), 181° 51′; near peak of roof on Bromes Wharf house, ⅝ mile, 246° 04′.

Deep (St. Marys County, C. C. Yates, 1908).—On the western shore of St. Marys River, opposite Bromes Wharf, and on first prominent point south of Pagan Point, about 1 foot above high water, 11 yards southwest of side of point, 12 yards north-northwest of side of point, 17 yards west of extreme end of point, and near several small piles of oyster shells. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Peak of roof between two chimneys, ¾ mile, 35° 26′; nail in blaze in cedar tree, 21.87 meters (71.8 feet), 123° 05′; peak of barn, ⅜ mile, 182° 23′; chimney of two-story house, ⅜ mile, 187° 53′; outside chimney of house, ½ mile, 234° 24′; smoke pipe of cabin near monument, ½ mile, 247° 30′; windmill on St. Marys Seminary, ½ mile, 251° 18′; peak of roof of Bromes Wharf house, ⅜ mile, 262° 43′; chimney of small house, ½ mile, 283° 15′; nail in blaze in cedar tree, 9.01 meters (29.56 feet), 329° 17′.

Brome (St. Marys County, C. C. Yates, 1908).—On the eastern shore of St. Marys River, about ⅜ mile south of Bromes Wharf at St. Marys, in edge of woods, about 6 feet above high water, 2 yards southeast of shore, and 25 yards from foot of slope. Station mark is center of 3-inch square wooden box with top about flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 5.65 meters (18.54 feet) from the station in azimuth 283° 48′. Distances and azimuths to other points of reference are as follows: Peak of roof between two chimneys of house at Portobello, 1 mile, 67° 16′; peak of roof between two chimneys of McKay's house, ¾ mile, 97° 41′; peak of barn, ¾ mile, 140° 01′; right chimney of two-story house, ¾ mile, 141° 25′; chimney of small house, ½ mile, 153° 57′; stovepipe of small cabin, ½ mile, 156° 58′; peak of roof of Bromes Wharf house, ⅜ mile, 169° 01′; nail in blaze in chestnut tree, 4.32 meters (14.17 feet), 250° 47′; nail in blaze in cherry tree, 6.40 meters (21.00 feet), 301° 14′.

Calvert Monument (St. Marys County, C. C. Yates, 1908).—On the eastern shore of St. Marys River, on a high prominent point near site of Old St. Marys. Station is apex of tall granite shaft known as the Calvert Monument, erected in memory of the Calvert who founded the first settlement of Maryland near this point.

Pagan (St. Marys County, C. C. Yates, 1908).—On the western side of upper St. Marys River, on Pagan Point, opposite the site of Old St. Marys, about 30 feet above high water, 120 yards southeast of river, 130 yards southwest of river, 26 yards southwest of a corncrib, 6 yards north of a wire fence, 16 yards south of another wire fence, and 19 yards west of still another wire fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top 10 inches below surface of ground. Surface mark is nail in stub. Distances and azimuths to various points of reference are as follows: Left side of left chimney of McKay's house, ¾ mile, 29° 15′; large chimney of large house on hill, 1⅛ miles, 124° 03′; near corner of corncrib, 23.11 meters, (75.8 feet) 223° 05′; left corner of stable, 27.85 meters (91.4 feet), 266° 17′; near corner of stable, 24.95 meters (81.9 feet), 281° 12′; near peak of roof of wharf house, ½ mile, 300° 56′; near peak of roof of Brome's house, ⅝ mile, 304° 47′.

Bend (St. Marys County, C. C. Yates, 1908).—On the eastern shore of Horseshoe Bend, in the upper St. Marys River, about ⅝ mile north-northeast of Calvert Monument and 1 mile east of Horseshoe Point. Station is in clear space about 15 feet above high water, 16 yards east of shore, 6 yards east of edge of bank, 7 yards east of a road, 12 yards south of trees, 12 yards west of bushes, 16 yards north of trees, and 23 yards northwest of trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Windmill at St. Marys Seminary, ⅝ mile, 23° 10′; near peak of roof of

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Commencement Hall at St. Marys, ⅝ mile, 26° 19′; near corner of near chimney of McKay's house, 1⅝ miles, 50° 38′; chimney on middle of house on Pagan Point, ⅞ mile, 62° 12′; end of front peak of Brisco's house, 1½ miles, 86° 44′; near chimney of large house, 1⅜ miles, 101° 25′; nail in blaze in 3-inch pine tree, 10.53 meters (34.5 feet), 162° 43′; nail in blaze in 9-inch gum tree, 18.70 meters (61.4 feet), 210° 01′; nail in blaze in 3-inch double cedar tree, 22.24 meters (73.0 feet), 260° 16′.

Horseshoe (St. Marys County, C. C. Yates, 1908).—On the eastern side of upper St. Marys River, about ⅜ mile north-northeast of Horseshoe Point, opposite Short Point, and 1⅛ miles north-northwest of Calvert Monument, in a cultivated field about 25 feet above high water, 175 yards east of shore, 120 yards east of edge of bank, 60 yards northwest of rail fence and a line of trees, and 165 yards northeast of corner of fence and bank. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, with top about 12 inches below surface of ground. Surface mark is center of 3-inch square wooden box. Distances and azimuths to various points of reference are as follows: Nail in blaze in 14-inch oak tree, 64.12 meters (210.4 feet), 6° 01′; chimney of McCoy's house on Lynch Island, 1½ miles, 121° 24′; center front peak of Hilton's house, 1½ miles, 138° 23′; near end of gable, ¼ mile, 211° 11′; near corner of near chimney of Freeman's house, ¼ mile, 246° 42′; nail in blaze in 15-inch cedar tree, 72.41 meters (237.6 feet), 278° 09′; nail in blaze in 4-inch cedar tree, 51.71 meters (169.7 feet), 326° 19′; right corner of near square pillar at St. Marys Seminary, 1⅛ miles, 328° 00′.

Brief (St. Marys County, C. C. Yates, 1908).—On the western shore of upper St. Marys River, on Short Point, about ⅜ mile northwest of Horseshoe Point and ½ mile south of Martin Point, about 10 feet above high water, 17 yards south-southwest of shore, 30 yards south of edge of bank, 45 yards northwest of shore, and 110 yards west of extreme end of point with four cedar trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top about 12 inches below surface of ground. Surface mark is center of 3-inch square wooden box. Distances and azimuths to various points of reference are as follows: Near corner of near chimney of Hyatt's house, ¼ mile, 92° 30′; middle gable of Hilton's house, 1¼ miles, 151° 20′; left peak of roof of Hammett's house, 1¼ miles, 169° 58′; right peak of roof of Sanders's house, 1½ miles, 193° 13′; nail in blaze in 6-inch oak tree, 15.37 meters (50.4 feet), 200° 59′; left corner of chimney outside of Cox's house, 1½ miles, 211° 01′; near peak of roof between two outside chimneys, 1 mile, 251° 03′; nail in blaze in 5-inch oak tree, 37.68 meters (123.6 feet), 276° 35′; windmill at St. Marys Seminary, 1¼ miles, 307° 26′; chimney on near end of house on Pagan Point, ⅞ mile, 320° 36′; left corner of near chimney of McKay's house, 1⅛ miles, 347° 33′; nail in blaze in 7-inch oak tree, 29.86 meters (98.0 feet), 352° 54′.

West Hollow (St. Marys County, C. C. Yates, 1908).—On the western shore of upper St. Marys River, opposite Horseshoe Point and between Pagan Point and Short Point, in a pasture, about 15 feet above high water, 16 yards southwest of edge of bank at shore, 45 yards west by south of extreme end of point, 40 yards northwest of trees in ravine, and 115 yards southeast of trees along edge of field and bank of creek. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top about 1 inch above surface of ground. Distances and azimuths to various points of reference are as follows: Tile smoke pipe of small house, ¼ mile, 1° 50′; nail in blaze in 6-inch pine tree, 94.40 meters (309.7 feet), 112° 08′; nail in blaze in 6-inch oak tree, 32.86 meters (107.8 feet), 154° 47′; right chimney of house on hill, 1½ miles, 192° 18′; nail in blaze in 4-inch oak tree, 18.37 meters (60.3 feet), 199° 12′; windmill, 1 mile, 215° 19′; chimney of house, 1 mile, 216° 31′; near corner of chimney of Freeman's house, 1 mile, 226° 37′; windmill at St. Marys Seminary, 1¼ miles, 284° 20′; near corner of chimney of small house, 200 yards, 303° 00′.

Martin (St. Marys County, C. C. Yates, 1908).—On the eastern shore of upper St. Marys River, on Martin Point, opposite Long Point, about ½ mile north of Short Point, and ⅞ mile north-northwest of Horseshoe Point, on a point of land about 3 feet above high water, 4 yards east of shore, 7 yards northwest of shore, 12 yards north of extreme end of point, and 30 yards north of cedar trees standing in water. Station mark is center of standard cement

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monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Nail in blaze in double cedar tree (14 inches diameter), 9.56 meters (31.36 feet), 6° 24′; left chimney of Coombs's house, 1 mile, 46° 31′; chimney of McCoy's house on Lynch Island, ⅞ mile, 113° 40′; nail in blaze in 9-inch cedar tree, 26.99 meters (88.5 feet), 163° 12′; near side of peak of roof of Sanders's house, ½ mile, 208° 45′; chimney of house, ⅝ mile, 240° 34′; nail in blaze in 4-inch cedar tree, 3.40 meters (11.15 feet), 270° 54′.

Tenuate (St. Marys County, C. C. Yates, 1908).—On the western shore of upper St. Marys River, on Long Point, about ¼ mile northwest of Short Point, ⅜ mile south-southwest of Martin Point, and ⅝ mile northwest of Horseshoe Point. On the point where the station is there are two cedar trees about 20 feet above high water. Station is 7 yards southeast of edge of bank, 10 yards west-southwest of edge of bank, 13 yards south-southwest of extreme point of bank, and 30 yards northeast of small negro house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Nail in blaze in 10-inch cedar tree, 13.24 meters (43.4 feet), 20° 29′; left corner of negro house, 27.06 meters (88.8 feet), 36° 42′; chimney of negro house, 30 yards, 53° 23′; right corner of negro house, 26.15 meters (85.8 feet) 60° 37′; chimney of McCoy's house, ⅞ mile, 137° 14′; peak of middle gable of Hilton's house, 1 mile, 154° 28′; left chimney of Hammett's house, 1 mile, 178° 02′; right chimney of Sanders's house, 1 mile, 206° 52′; windmill, 1 mile, 248° 34′; left chimney outside of Freeman's house, 1 mile, 266° 32′; windmill at St. Marys Seminary, 1⅝ miles, 308° 34′; outside chimney of Hyatt's house, ¼ mile, 338° 52′.

Soak (St. Marys County, C. C. Yates, 1908).—On the western shore of upper St. Marys River, about ½ mile southeast of Lynch Island and ½ mile west-northwest of Long Point, about 1 foot below high water, 3 yards northeast of bank back of which is dense growth of pine trees, and 10 yards west of the first point northwest of Long Point. Station mark is nail in stub with top about 6 inches above bottom of river. Reference mark is center of standard cement mounment of Maryland Shell Fish Survey, note 16. It is 11.02 meters (36.2 feet) from station in azimuth 32° 35′. Distances and azimuths to other points of reference are as follows: Nail in blaze in 20-inch oak tree, 12.66 meters (41.5 feet), 30° 57′; nail in blaze in 15-inch oak tree, 17.74 meters (58.2 feet), 85° 41′; outside chimney of Ware's house 1½ miles, 133° 34′; chimney of McCoy's house on Lynch Island, ½ mile, 151° 09′; near end of middle gable of Hilton's house, ¾ mile, 167° 16′; peak of roof between two outside chimneys, ¾ mile, 200° 19′; right chimney of Hammett's house, ¾ mile, 201° 07′; near peak of side gable of Sanders's house, 1⅛ miles, 232° 29′; Berrill's windmill, 1¼ miles, 265° 50′; near peak of roof of Berrill's house, 1¼ miles, 268° 39′; chimney of house on Long Point, ½ mile, 303° 08′; nail in blaze in 8-inch pine tree, 16.86 meters (55.3 feet), 351° 07′.

Hammett (St. Marys County, C. C. Yates, 1908).—On the eastern shore of upper St. Mary's River, on a prominent point about ⅜ mile east of Lynch Island and ⅝ mile northwest of Martin Point, at edge of cultivated field, about 4 feet above high water, 8 yards north of shore, 30 yards east of shore on left line of slough, 7 yards east of a single cedar tree, and 90 yards southeast of trees on other side of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Nail in blaze in 3-inch cedar tree, 6.21 meters (20.4 feet), 58° 07′; chimney outside of McCoy's house, ⅜ mile, 101° 58′; left chimney of Hammett's house, ⅜ mile, 210° 43′; right peak of roof between two chimneys of Sanders's house, 1 mile, 218° 27′; windmill near Berrill, 1½ miles, 284° 51′; left chimney of Berrill's house, 1½ miles, 287° 36′; nail in blaze in small persimmon tree, 8.39 meters (27.53 feet), 293° 48′; near peak of roof between two chimneys of Freeman's house, 1½ miles, 295° 05′; windmill at St. Marys Seminary, 2¼ miles, 315° 43′; chimney on near end of Garrett's house, 1⅞ miles, 323° 49′; chimney outside of Hyatt's house, 1 mile, 332° 59′.

McCoy (St. Marys County, C. C. Yates, 1908).—On the upper St. Marys River, on southwestern end of Lynch Island, about ⅞ mile west-northwest of Martin Point. Station is about 10 feet above high water, 10 yards east of shore, 30 yards northwest of shore, 45 yards north of shore at extreme point of island,

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and 120 yards southwest by south of McCoy's camp house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Left chimney of Powell's house, ¾ mile, 43° 20′; nail in blaze in 12-inch walnut tree, 15.46 meters (50.7 feet), 47° 59′; nail in blaze in 7-inch walnut tree, 8.41 meters (27.59 feet), 134° 50′; nail in blaze in 6-inch walnut tree, 10.34 meters (33.9 feet), 169° 59′; right corner of McCoy's house, 120 yards, 235° 56′; near peak of roof between two chimneys on Freeman's house, 1¾ miles, 290° 44′; windmill at St. Marys Seminary, 2½ miles, 310° 17′; chimney of house on Long Point, 1 mile, 314° 13′; left chimney of house on Short Point, 1¼ miles, 317° 17′; nail in blaze in 7-inch walnut tree, 5.73 meters (18.80 feet), 339° 31′.

St. Inigoes Church cross (St. Marys County, C. C. Yates, 1908).—On the eastern side of St. Marys River, about 1 mile back from Priests Point, and ¾ mile south of Grason Wharf on St. Inigoes Creek. Station is center of cross on St. Inigoes Catholic Church.

St. Marys Episcopal Church cross (St. Marys County, C. C. Yates, 1908).—On the eastern shore of St. Marys River near the site of Old St. Marys. Station mark is the center of the cross on tower of the Episcopal Church.

Water tower (Portobello) (St. Marys County, C. C. Yates, 1908).—On the western side of St. Mary's River, inshore and about ¼ mile west of Portobello Landing. Station is center of water tank on top of a detached structure.

Price (St. Marys County, C. C. Yates, 1908).—On northern shore of St. George River on eastern side of entrance to Price Creek and about ½ mile north of Cherryfield Point. On a marsh point about 1½ feet above high water, 9 yards southeast of shore, 17 yards north-northeast of shore, 21 yards east-northeast of shore at end point, and 200 yards west of pine woods on inner edge of marsh. Marked by standard cement monument of Maryland Shell Fish Commission, note 16. Distances and azimuths to points of reference are: Chimney on middle of house, 1¼ miles, 50° 25′; right chimney of large house, 1⅜ miles, 62° 16′; chimney on Adams's store, 1⅜ miles, 64° 33′; near peak of house with no chimney, 1⅜ miles, 66° 07′; cupola of dance hall, 1⅜ miles, 69° 21′; largest chimney on Milton's house, ¾ mile, 104° 10′; peak of Milton's barn, ¾ mile, 110° 33′; chimney of small cabin, ⅝ mile, 123° 30′; peak of Thompson's house, ¾ mile, 140° 11′.

Arbuckle (St. Marys County, C. C. Yates, 1908).—On northeastern side of upper St. George River, about 1⅜ miles north of St. George Island Straits, in a cultivated field about 10 feet above high water, 100 yards northeast of shore, and 100 yards north of a ditch. Marked by a standard cement monument of the Maryland Shell Fish Commission, note 16. (Note: Supposed to be buried with top 12 inches below surface of ground.) Distances and azimuths to points of reference are: Right one of two chimneys on Robrecht's house, ⅞ mile, 28° 20′; near peak of roof of William Adams's house, ⅝ mile, 71° 39′; tangent of point ⅝ mile, 79° 55′; near peak of Shehan's house, ¼ mile, 168° 11′; between two chimneys on J. M. Adams's house, 300 yards, 248° 08′; corner of shed attached to barn, 253 yards, 282° 08′; southwest peak of barn, 270 yards, 282° 36′.

ST. INIGOES CREEK

Inigoes (St. Marys County, C. C. Yates, 1908).—On northern side of entrance to St. Inigoes Creek, about ⅝ mile north of Priests Point, and ⅝ mile east of Windmill Point. Station is offshore in about 4 feet of water, 1½ feet southeast of boat landing, and 45 yards southwest of shore. Station mark is a 3-inch square stub with top about 2 feet above surface of water. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is on top of bank about 15 feet high and is 50.87 meters (166.9 feet) from station in azimuth 219° 24′. Distances and azimuths to other points of reference are as follows: Left tangent of left chimney of brick house. 1¾ miles, 60° 56′; left peak of roof of carriage house, ⅞ mile, 98° 57′; right chimney of Coppage's house, 1⅜ miles, 118° 19′; chimney of McKay's house, 1¾ miles, 151° 49′; center of right tower of Kennedy's house, 400 yards, 180° 00′; left chimney of Tyler's house, ⅞ mile, 279° 35′; large chimney of Raley's house, ⅝ mile, 342° 31′.

Cottage (St. Marys County, C. C. Yates, 1908).—On the northwestern shore of St. Inigoes Creek, about ½ mile east-northeast of St. Marys River and ⅜ mile west-southwest of Grason Wharf. Station is on sand, about 1 foot above

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high water, 2 yards north-northwest of shore, 20 yards south-southeast of woods, and 120 yards southwest by west of extreme end of point. Station mark is center of 3-inch square wooden box with top even with surface of sand. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 12.82 meters (42.1 feet) from station in azimuth 161° 08′. Distances and azimuths to other points of reference are as follows: Left peak of roof of Raley's barn, ⅜ mile, 20° 08′; near peak of roof between two chimneys on Raley's house, ½ mile, 30° 44′; nail in blaze in 24-inch pine tree, 26.03 meters (85.4 feet), 162° 22′; chimney of house, ¼ mile, 212° 03′; nail in blaze in double 5-inch pine tree, 30.90 meters (101.4 feet), 224° 55′; between two chimneys of Grason's house, ⅜ mile, 260° 47′; nail in blaze in 14-inch cedar tree, 17.93 meters (58.8 feet), 261° 08′; left chimney of old house, ½ mile, 291° 53′.

Church (St. Marys County, C. C. Yates, 1908).—On the southeastern shore of St. Inigoes Creek, about ⅝ mile east of St. Marys River and ¼ mile southwest of Grason Wharf, about 2 feet above high water, on a rounded point of land nearly surrounded by water, 13 yards southeast of shore, 14 yards south of shore, 24 yards west-southwest of shore, and 35 yards north of inlet and cedar trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Nail in blaze in 4-inch cedar tree, 7.42 meters (24.34 feet), 4° 53′; near peak of roof between two chimneys on Raley's house, ⅜ mile, 134° 45′; chimney of house, ½ mile, 174° 42′; left chimney on end of house, 1¾ miles, 188° 32′; near peak of roof of Grason Wharf house, ¼ mile, 200° 31′; near peak of roof of Grason's stable, ¼ mile, 217° 37′; between two chimneys on near end of Grason's house, ¼ mile, 223° 50′; nail in blaze in 6-inch cedar tree, 12.52 meters (41.1 feet), 278° 11′; nail in blaze in 5-inch cedar tree, 9.95 meters (32.64 feet), 326° 07′.

Grason (St. Marys County, C. C. Yates, 1908).—On the southeastern shore of St. Inigoes Creek, near Grason Wharf, about ⅞ mile northeast of St. Marys River, about 15 feet above high water, 7 yards southeast of edge of bank, 13 yards northwest of a stable, and near three trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Right corner of stable, 12.05 meters (39.5 feet), 15° 34′; chimney of Raley's house, ⅝ mile, 45° 34′; left tangent of Priest's Villa, 1⅛ miles, 46° 00′; nail in blaze in 18-inch cherry tree, 12.94 meters (42.5 feet), 64° 30′; near corner of wharf house, 130 yards, 98° 45′; chimney of house, ¼ mile, 112° 02′; nail in blaze in elm tree, 13.37 meters (43.9 feet), 165° 49′; chimney of old brick house on hill, 2 miles, 221° 18′; nail in blaze in 22-inch locust tree, 6.40 meters (21.00 feet), 275° 15′; left corner of stable, 9.19 meters (30.15 feet), 326° 43′.

Dusky (St. Marys County, C. C. Yates, 1908).—On the northwestern shore of St. Inigoes Creek, on a prominent point between creek and small cove, nearly opposite Grason Wharf, and about ¾ mile northeast of St. Marys River. Station is about on level with high water, about 5 yards east of a fence which is on top of a tree-fringed bank 15 feet high. Station mark is center of 3-inch square wooden box. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is near an old creek bed and is 25.09 meters (82.3 feet) from station in azimuth 182° 34′. Distances and azimuths to other points of reference are as follows: Left peak of roof of Raley's barn, ⅝ mile, 25° 15′; left corner of Raley's house, ⅝ mile, 32° 23′; right corner of Priest's Villa, 1 mile, 38° 13′; cedar tree, 20 yards, 48° 45′; corner post of fence, 4 yards, 129° 58′; nail in blaze in 6-inch locust tree, 10.44 meters (34.2 feet), 177° 42′; near end of Grason Wharf, ⅛ mile, 302° 36′; right peak of roof of house, ⅝ mile, 339° 52′; chimney on outside of small house, ⅝ mile, 348° 52′.

Rock (St. Marys County, C. C. Yates, 1908).—On the northwestern shore of St. Inigoes Creek, about ¼ mile north-northwest of Grason Wharf and ⅞ mile northeast of St. Marys River, on western side of entrance to small creek with a wooded shore, about 2 feet above high water, 4 yards north-northwest of shore, and 8 yards east-southeast of a small pool with trees beyond. Station mark is center of 3-inch wooden box. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 17.09 meters (56.1 feet) from station, in azimuth 94° 18′. Distances and azimuths to various other points of reference are as follows: Nail in blaze in 8-inch pine tree, 9.95 meters (32.64 feet), 54° 14′; nail in blaze in 16-inch pine tree, 17.24

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meters (56.6 feet), 89° 09′; nail in blaze in 16-inch pine tree, 27.45 meters (90.1 feet), 146° 38′; chimney on right end of house, ¾ mile, 188° 54′; chimney of house, ½ mile, 272° 28′; near peak of roof of barn, ⅝ mile, 313° 23′; near peak of roof of Grason Wharf house, ⅜ mile, 356° 21′.

Smoke (St. Marys County, C. C. Yates, 1908).—On the southeastern shore of St. Inigoes Creek, about ¼ mile east of Grason Wharf. Station is center of brick chimney on west end of tenant house, which is about 15 feet above high water.

Sleep (St. Marys County, C. C. Yates, 1908).—On the northern shore of upper St. Inigoes Creek, on point between two forks of creek, about ½ mile northeast of Grason Wharf and 1¼ miles northeast of St. Marys River. Station is about 1 foot above high water, 6 yards east of shore, 10 yards north of shore, and on line with persimmon trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Near peak of roof of Grason brick house, ½ mile, 32° 49′; left chimney on higher roof of Raley's house, 1¼ miles, 42° 20′; left peak of roof of wharf house, ⅜ mile, 44° 02′; tangent of point opposite Grason, ⅝ mile, 49° 17′; nail in blaze in 2-inch pine tree, 18.25 meters (59.9 feet), 140° 59′; nail in blaze in 4-inch pine tree, 19.89 meters (65.3 feet), 198° 54′; nail in blaze in 9-inch persimmon tree, 4.45 meters (14.60 feet), 221° 21′; tangent of marsh point, 150 yards, 255° 56′; chimney of left ell of house, ⅝ mile, 299° 51′.

Chestnut (St. Marys County, C. C. Yates, 1908).—On the southern shore of upper St. Inigoes Creek, about ½ mile east-northeast of Grason Wharf, near the entrance to an eastern branch of creek, and 1¼ miles northeast of St. Marys River. Station is in a cultivated field fringed by tall trees, about 20 feet above high water, 18 yards south of edge of bank, 70 yards southwest of corner of field, 80 yards west-southwest of edge of bank, 95 yards northeast of trees at hollow, 110 yards southwest of a point, and 150 yards east by north of point where rail fence meets trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top about 12 inches below surface of ground. Surface mark is center of 3-inch square wooden box. Distances and azimuths to various points of reference are as follows: Junction of fences, 150 yards, 27° 41′; nail in blaze in 22-inch pine tree, 18.58 meters (61.0 feet), 108° 00′; nail in blaze in 18-inch cedar tree, 16.46 meters (54.0 feet), 137° 38′; nail in blaze in 14-inch pine tree, 21.10 meters (69.2 feet), 173° 56′; tangent of trees, 100 yards, 339° 53′.

ST. GEORGE RIVER

Smack (St. Marys County, C. C. Yates, 1908).—On the southern side of entrance to St. George River, on St. George Island, opposite Cherryfield Point. Station is about 3 feet above high water, 8 yards south of shore, 30 yards southwest of extreme end of point, 45 yards west of shore, and 4 yards northeast of fence and orchard. Station mark is nail in stub with top about even with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 6.20 meters (20.34 feet) from station in azimuth 346° 33′. Distances and azimuths to other points of reference are as follows: Chimney of house, 120 yards, 22° 31′; nail in blaze in 3-inch peach tree, 4.76 meters (15.62 feet), 29° 37′; nail in blaze in 4-inch peach tree, 6.42 meters (21.06 feet), 67° 48′; ball on church, ½ mile, 83° 18′; chimney of house, ¾ mile, 105° 55′; near peak of roof, 1⅜ miles, 151° 18′; chimney of house, 2 miles, 179° 56′; chimney of Taylor's house, 2¼ miles, 239° 48′; near peak of roof of Lewis Hotel at Smith Creek, 3¾ miles, 283° 58′; near peak of roof of long barn on Kitts Point, 2⅞ miles, 289° 47′; chimney of first house on point of island, ¼ mile, 324° 27′; chimney of house, ⅛ mile, 349° 25′.

Cherry (St. Marys County, C. C. Yates, 1908).—On northern side of entrance to St. George River, on Cherryfield Point, about 2 feet above high water, 27 yards east of shore, 30 yards north of shore, 30 yards southwest of pine woods, and near several trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney of house with ell, ⅞ mile, 22° 09′; near chimney of house on opposite point, ½ mile, 31° 20′; cross on Catholic church, ¾ mile, 46° 46′; chimney of 2½-story house, 1 mile, 74° 04′; left piazza post of Dana Hall, 1¼ miles, 88° 31′; near peak of roof of barn, ⅞ mile,

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136° 26′; nail in blaze in 14-inch pine tree, 21.96 meters (72.0 feet), 202° 08′; nail in blaze in 14-inch pine tree, 6.30 meters (20.67 feet), 239° 26′; nail in blaze in 8-inch pine tree, 17.40 meters (57.1 feet), 258° 53′.

Adams (St. Marys County, C. C. Yates, 1908).—On the southwestern shore of St. George River, on St. George Island, about 1 mile west-southwest of Cherryfield Point. Station is in chicken yard, about 1 foot above high-water mark, 28 yards southwest of shore, 15 yards southwest of wire fence, 17 yards south of corner of wire fence, 38 yards west-northwest of corner of wire fence, 37 yards north of corner of wire fence, and 30 yards east of corner of wire fence. Station mark is nail in tree stump 8 inches in diameter. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 13.65 meters (44.8 feet) from station in azimuth 99° 25′. Distances and azimuths to other points of reference are as follows: Near edge of peak of gable, 100 yards, 55° 42′; nail in blaze in 10-inch pine tree, 21.29 meters (69.8 feet), 56° 48′; corner tree of wire fence, 30 yards, 74° 34′; near corner of chicken house, 12.62 meters (41.4 feet), 91° 03′; nail in blaze in 10-inch pine tree, 8.89 meters (29.17 feet), 93° 29′; right chimney of house, ⅛ mile, 108° 43′; pole on pavilion on wharf ¼ mile, 129° 16′; corner post of wire fence, 17 yards, 184° 38′; near peak of roof between chimneys, 1¾ miles, 213° 36′; corner post of wire fence, 38 yards, 294° 56′; near peak of roof of large house, ¼ mile, 325° 17′; left chimney of large house with four gables, ⅛ mile, 350° 00′; nail in blaze in 10-inch pine tree, 11.35 meters (37.2 feet), 352° 17′; corner tree of wire fence, 37 yards, 359° 57′.

Goose (St. Marys County, C. C. Yates, 1908).—On the northeastern shore of St. George River, about ¾ mile northwest of Cherryfield Point and ¼ mile northwest of entrance to Price Creek, about 1 foot above high water mark, among cedar, pine, and persimmon trees, 4 yards northeast of edge of lane, 13 yards south of cultivated land beyond trees, and a few yards northwest of four large pine trees at edge of water. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney on middle of 2½-story house, ⅞ mile, 24° 09′; near front peak of 2½-story house, ⅞ mile, 28° 11′; chimney of storehouse, ⅞ mile, 48° 39′; smoke pipe of cottage near high scant woods, 1 mile, 73° 04′; high lone pine tree on St. George Island, 1⅛ miles, 88° 18′; chimney on 2½-story house near Piney Point, 2¾ miles, 100° 08′; nail in blaze in 5-inch cedar tree, 8.74 meters (28.67 feet), 128° 17′; nail in blaze in 8-inch cedar tree, 2.58 meters (8.46 feet), 161° 24′; nail in blaze in 6-inch cedar tree, 5.75 meters (18.86 feet), 244° 37′; right peak of wharf house, 1 mile, 217° 12′; tangent of point, 250 yards, 301° 58′; nail in blaze in 11-inch pine tree, 8.08 meters (26.51 feet), 321° 48′.

Combs (Firing Point rear range) (St. Marys County, C. C. Yates, 1908; 1919).—On the northeastern side of St. George River, on a marshy island about ⅛ mile offshore from the point on Combs place and ½ mile east of St. George Island Straits. It is on marshland about level with high water, 7 meters north of extreme south point, 7 meters east of west shore, and 40 meters east-southeast of another point. Station marked by a standard bronze disk in the top of a tile set according to note 6b, the disk being stamped "Combs." Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top 6 inches above surface of ground; it is 13.87 meters (45.5 feet) from station in azimuth 178° 47′. Distances and azimuths to other points of reference are as follows: Chimney on right end of Swan Hotel, ⅝ mile, 99° 53′; right peak of Graves Hotel, ¾ mile, 106° 22′; left chimney of Robrecht house, ⅞ mile, 118° 00′; left cedar on Moore Island, ⅜ mile, 124° 48′; cedar tree, ⅜ mile 136° 33′; chimney of Taylor house, ¼ mile, 141° 06′; lightning rod on line with chimney, ¼ mile, 242° 48′; pavilion on wharf, ⅝ mile, 355° 55′.

Straits (St. Marys County, C. C. Yates, 1908).—On the southwestern shore of St. George River, on St. George Island, about ¼ mile southeast of St. George Island Straits, and 1⅞ miles east of Piney Point Light. Station is on marshland about 1 foot above high-water mark, 3 yards southeast of side of point, 5 yards northwest of side of point, and 19 yards southwest of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney of house, 125 yards, 5° 42′; left peak of roof of small house, 125 yards, 103° 43′; near peak of roof of hotel (lightning rod), ½ mile,

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134° 23′; main chimney of house, ⅞ mile, 143° 55′; lone locust tree, ¾ mile, 188° 28′; chimney of large house with four gables, ½ mile, 331° 37′.

Taylor (St. Marys County, C. C. Yates, 1908).—On the northeastern shore of St. George River, about ½ mile northeast of St. George Island Straits, on solid land back of marsh, about 4 feet above high water, 37 yards southeast of shore, 10 yards south-southeast of fence corner, 100 yards east-northeast of a clump of trees, and 125 yards northwest of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney of Swan Hotel, ½ mile, 74° 59′; right chimney of Graves Hotel, ⅝ mile, 88° 56′; main chimney of Robrecht house, ½ mile, 108° 09′; nail in blaze in 12-inch locust tree, 7.06 meters (23.16 feet), 122° 40′; right chimney of Adams house, 1⅛ miles, 132° 56′; nail in blaze in cedar fence post (4 inches in diameter), 8.48 meters (27.82 feet), 139° 48′; left chimney of old 2½-story house, 1½ miles, 143° 44′; chimney of house, 90 yards, 294° 49′; chimney of house with four gables behind long building, 1 mile, 347° 47′.

Swan (St. Marys County, C. C. Yates, 1908).—On the southwestern shore of St. George River, about ⅛ mile north of St. George Island Straits and 1⅝ miles east of Piney Point Light, in a pasture, near a locust tree and three small pine trees, about 3 feet above high-water mark, 12 yards south-southeast of shore, 14 yards west of shore, 4 yards west of edge of bank, 10 yards south-southeast of edge of bank, 12 yards south of extreme point of bank, 30 yards southwest of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Nail in blaze in 20-inch locust tree, 3.77 meters (12.37 feet), 10° 43′; cross on grave, 132 yards, 39° 43′; small chimney of house, 200 yards, 125° 18′; main chimney of house, ½ mile, 149° 36′; near chimney of large house, 1⅜ miles, 184° 34′; near one of two outside chimneys of house, 1 mile, 195° 26′; nail in blaze in 3-inch pine tree, 9.77 meters (32.05 feet), 208° 09′; right chimney of house, ¾ mile, 263° 33′; nail in blaze in 2-inch pine tree, 5.73 meters (18.80 feet), 300° 55′; pavilion on wharf, ¾ mile, 319° 16′; chimney on house in woods, ⅜ mile, 337° 40′.

Robrecht (St. Marys County, C. C. Yates, 1908).—On the southwestern shore of St. George River, on a point of land about ⅝ mile north of St. George Island Straits, in a cultivated field, about 4 feet above high water, 6 yards west of edge of bank, 35 yards southeast of edge of bank, 70 yards northwest of edge of bank, and 40 yards south by west of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top about 10 inches below surface of ground. Surface mark is center of 3-inch square wooden box. Distances and azimuths to various points of reference are as follows: Chimney of pavillion, ¼ mile south, 8° 47′; right chimney of Robrecht house, ⅛ mile, 62° 21′; chimney of house, ⅝ mile, 145° 28′; left chimney of old 2½-story house, 1½ miles, 152° 17′; left chimney of house, ¾ mile, 193° 01′; near one of two chimneys on house, ⅝ mile, 210° 46′; near peak of roof of house, ½ mile, 298° 06′; chimney of house in woods, ⅝ mile, 341° 49′.

Tarkhill (St. Marys County, C. C. Yates, 1908).—On the northeastern side of St. George River, a short distance offshore, on a small island, about ¾ mile north of St. George Island Straits. Station is on small marsh island or tump, about 1 foot above high water, 2 yards southwest of edge of island, 3 yards northeast of edge of island, 8 yards northwest of edge of island, and 22 yards southeast of edge of island. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Tangent of point, ⅝ mile, 25° 04′; peak of cottage near hotel, ⅝ mile, 57° 04′; left chimney of Robrecht house, ½ mile, 76° 58′; chimney of old house, ⅞ mile, 105° 24′; right chimney of Adams house, ¾ mile, 121° 00′; peak of large barn, ¾ mile, 124° 02′; peak of Chadwick house, 1⅝ miles, 139° 47′; peak of house showing over roof of large house, 1¼ miles, 347° 26′; chimney of small cabin, 1¼ miles, 352° 37′; between two chimneys of house, 1¼ miles, 353° 09′.

Lowell (St. Marys County, C. C. Yates, 1908).—On the northeastern shore of upper St. George River, about 1¼ miles north of St. George Island Straits, in a field about 1 foot above high water, 6 yards northwest of shore, 32 yards northeast of extreme point of shore, and 33 yards east of shore. Station mark

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is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Peak of small barn, ½ mile, 1° 05′; left chimney of Robrecht house, ½ mile, 2° 03′; left lightning rod of Graves house, ½ mile, 7° 04′; near chimney of Adams's house, ¼ mile, 57° 59′; peak of large barn, ½ mile, 72° 20′; chimney of Wall's house, ½ mile, 100° 07′; nail in blaze in persimmon tree, 27.58 meters (90.5 feet), 139° 35′; peak of barn, ½ mile, 267° 30′; left chimney of Swan Hotel, 1 mile, 355° 18′; chimney of storehouse, ¾ mile, 357° 42′.

Russell (St. Marys County, C. C. Yates, 1908).—On the southwestern shore of upper St. George River, about 1⅛ miles northwest of St. George Island Straits, at edge of a cultivated field, about 2 feet above high water, 7 yards northwest of shore, 13 yards west of shore, 40 yards west-northwest of a small marsh point, and 80 yards east of a corner of a fence around yard of house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Near chimney of Todd Adams house, 90 yards, 94° 25′; peak of small barn, 150 yards, 106° 45′; peak of large barn, 200 yards, 128° 10′; nail in blaze in small holly tree, 7.94 meters, 159° 58′; peak of large barn, ¾ mile, 216° 49′; between two chimneys of McAdams house, ¾ mile, 249° 25′; peak of barn, ¾ mile, 254° 36′; nail in blaze in pine tree, 6.45 meters (21.16 feet), 306° 51′.

Wall (St. Marys County, C. C. Yates, 1908).—On the southwestern shore of upper St. George River, about 1½ miles north-northwest of St. George Island Straits, in a field, about 3 feet above high water, 7 yards southwest of shore, 45 yards southeast of shore, 40 yards east of shore of cove, 35 yards east of an oak tree, and 200 yards northwest of house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Outside chimney of house, 1 mile, 78° 54′; left chimney of house, 1½ miles, 112° 14′; large chimney of 1½-story house, 1½ miles, 124° 58′; east peak of barn, 1¾ miles, 165° 25′; left chimney of Chadwick house, ½ mile, 167° 38′; outside chimney of house, ¾ mile, 180° 18′; nail in blaze in 24-inch cedar tree, 5.28 meters (17.32 feet), 184° 22′; chimney of house across creek, 1 mile, 251° 41′; southwest peak of barn, 1 mile, 275° 14′; chimney of Wall house, 200 yards, 292° 28′; peak of barn, 250 yards, 319° 02′.

Shehan (St. Marys County, C. C. Yates, 1908).—On the northeastern shore of upper St. George River, about 1⅝ miles northwest of St. George Island Straits, on solid ground, about 2 feet above high water, 8 yards east of shore, 40 yards northwest of shore, 30 yards north-northeast of extreme end of point, 50 yards west of an old rail fence, and north-northwest of marsh between shore and station. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Lightning rod of Adams house, ½ mile, 2° 22′; chimney of house, ½ mile, 8° 03′; peak of Wall house, ⅜ mile, 26° 18′; peak of house, ¾ mile, 59° 50′; peak of large barn, ½ mile, 85° 15′; tangent of point up creek, ¼ mile, 126° 40′; nail in blaze in small pine tree, 20.32 meters (66.7 feet), 217° 59′; chimney of Robrecht house, 1⅛ miles, 351° 24′.

Chadwick (St. Marys County, C. C. Yates, 1908).—On the northeastern shore of upper St. George River, on a prominent point between a cove and a creek, about 2 miles north-northwest of St. George Island Straits, at edge of an old field, about 2 feet above high water, 9 yards northeast of shore, 18 yards northwest of extreme end of point, 80 yards south-southeast of a 2½-story house, and 75 yards from several apple trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: South peak of barn, ¾ mile, 3° 00′; chimney of house, ¾ mile, 15° 52′; chimney of house on opposite shore, ½ mile, 19° 25′; chimney of house among trees on opposite shore, ½ mile, 24° 46′; southwest peak of barn, ½ mile, 28° 28′; chimney of house near woods, ¾ mile, 77° 04′; nail in blaze in locust tree, 3.82 meters (12.53 feet), 126° 32′; near corner of house, 81 yards, 160° 22′; south corner of house, ½ mile, 200° 53′.

Guither (St. Marys County, C. C. Yates, 1908).—On the southwestern shore of upper St. George River, about 2 miles northwest of St. George Island Straits, in a grassy field, about 2 feet above high water, directly opposite Chadwick

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farmhouse, 12 yards northwest of shore, 18 yards south of shore, and 35 yards southwest of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney of small house, ½ mile, 85° 41′; chimney of 1½-story house, 1¼ miles, 165° 10′; between two chimneys of house on Chadwick farm, ¼ mile, 224° 06′; nail in blaze in cedar tree, 7.05 meters (23.13 feet), 273° 27′; nail in blaze in cedar tree, 8.92 meters (29.27 feet), 302° 22′; chimney on Wall house, ⅞ mile, 319° 26′; northeast peak of barn, ¾ mile, 325° 40′; near peak of barn, ¼ mile, 343° 01′; peak of barn, ¼ mile, 359° 02′.

POTOMAC RIVER, RAGGED POINT TO LOWER CEDAR POINT

Blakistone Island Lighthouse (St. Marys County, J. Farley, 1860; 1908).—On the northern shore of Potomac River, on the southern end of Blakistone Island. Station is center point of lantern on dwelling house known as Blakistone Island Lighthouse.

Blue Sow 2 (St. Marys County, J. E. McGrath, 1901).—On Newtown Neck, on Kaywood Point, in a clear field close to the west shore of Bretons Bay. A line of woods bounds the field on its north-northwest side, a fence separating the woods and field. The face of the field toward the bay rises to a height of about 10 feet above high water. In 1901 the tops of several small locusts had to be cut off to give view to stations to the eastward. On one of these locusts a blaze was made, into which three nails were driven. It is 20.70 feet from the station in azimuth 305° 00.4′. A blaze was made in a giant 3-foot gum tree and three nails driven into the blaze. It is 50.25 feet from the station in azimuth 169° 33.4′. Where the fence comes to the bank of the bay is an upright oak stake, 4 feet high. Three nails were driven into the top of this post forming a triangle. Just below this post the fence continues on the level of the beach and into the water of the bay for about a half dozen panels. The post is 52.8 feet from the station in azimuth 222° 34.4′. The station mark is center of a 2-inch draintile pipe, 15 inches long, set in cement, with its top flush with the surface of the ground.

Nomini 2 (Westmoreland County, Va., J. E. McGrath, 1901; 1924).—On the south shore of Potomac River, in a clearing on top of Nomini Cliffs, and near their eastern end. A small sharp ravine about 1,000 feet below the station affords the best ascent of the cliffs. In 1924 woods had grown up around the station, which is 13 feet back from the edge of the cliff. The old Sollent place (in ruins) is about 100 feet west of the station. In clearing lines of sight two large pine trees were left standing—the largest in the vicinity. They are on a line to the west end of St. Catherines Island, the nearest being 40 feet from the station. In 1918 the station was re-marked with standard "C. & G. S." bronze disk set in concrete, note 1c. Reference mark is nail in 2-inch draintile pipe embedded in cement in edge of young pine wood which bounds open space to south; it is 9.75 meters (32.0 feet) from station in azimuth 338° 43′. Two small pines, one on each side of the reference mark, were blazed and a nail driven into each. They are 14.58 meters (47.8 feet) and 12.27 meters (40.25 feet) from the station. Reference mark 1924 is a nail in a blaze on a 12-inch long-leaf pine, 3 feet above the ground, and 29.1 feet west of the station.

Cobb Point Bar Lighthouse (Charles County, J. E. McGrath, 1901; 1918).—On the northerly side of the Potomac River, at mouth of Wicomico River on the southeastern extremity of Cobb Point Bar. Station is center of black lantern on screw pile structure known as Cobb Point Bar Light. In 1918 the structure was reported as having a slight list to northward caused by ice running out of Wicomico River.

St. Margaret 2 (St. Marys County, J. E. McGrath, 1901; 1908).—On the northern side of the Potomac River and on the eastern side of entrance to Wicomico River, on the southwestern side of St. Margarets Island, on a bluff about 12 feet above high-water mark, 15 inches northeast of edge of bluff, 86 yards northwest of cow shed, 129 yards south-southwest of several houses, and 154 yards west-southwest of Bailey (large) house. Station marked by a stub in a 2½-inch tile pipe set in cement, with top flush with ground. Reference station, set in 1908, is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 79.19 meters (259.8 feet) from the station, in azimuth 226° 27′. Distances and azimuths from the station to other points of

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reference are as follows: Tangent of Cobb Point, 1⅝ miles, 98° 35′; chimney on left of Garner new house, 2⅜ miles, 183° 02′; left chimney of Bailey house, 150 yards, 248° 13′; nearest chimney of small house on Bullock Island, 1 mile, 273° 48′; left chimney of small house on St. Catherine Island, 1¼ miles, 311° 54′. In 1918 the center mark was reported as gone, but the reference mark was recovered.

St. Margaret 2, reference mark (St. Marys County, C. C. Yates, 1908; 1918).—On the northern side of Potomac River and eastern side of entrance to Wicomico River, on St. Margarets Island, near its center, and at the corner of an old cow shed. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. See description of *St. Margaret 2.*

Swan Point 2 (Charles County, J. E. McGrath, 1901).—On the northern shore of Potomac River, on Swan Point. In 1918 this station was reported as lost and ordnance station *Clement* established to replace it.

Lower Cedar 2 (Charles County, J. E. McGrath, 1901; 1902).—On the eastern shore of Potomac River, on Lower Cedar Point. In 1918 this station reported lost. Replaced by ordnance station *Margan* (see index).

Shell bank (King George County, Va., J. E. McGrath, 1901; 1902).—On the western shore of Potomac River, opposite Lower Cedar Point. In 1918 this station reported lost and replaced by ordnance station *Shell.*

Rosier 2 (King George County, Va., J. E. McGrath, 1901; 1918).—On the western side of the Potomac River, on the north side of the mouth of Rosier Creek, on King George Point, near the eastern end of a 17-foot bluff, about 30 feet west of top edge of bank on which it stands. It is on land owned by Mrs. E. G. Mills in 1907. A footpath leads up, between the station and the bluff, from the little bay (in Rosier Creek) formed by the southeast end of King George Point. Between the station and the creek and on the same level as the station is a wild cherry tree 2 feet in diameter. A blaze was made on the north side of this tree and a circle outlined with three nails. The blaze is 14.14 meters (46.4 feet) from the station, in azimuth 346° 34′.4. It is not known how the station is marked.

Murray (Westmoreland County, Va., P. M. Trueblood, 1919).—On southern side of Potomac River, on Kingcopsico Point, at edge of cultivated field, 5 meters east from edge of bank 8 feet high, and 13 meters south of north edge of bank. The station and reference marks are bronze tablets set in concrete in tiles surrounded by concrete as described in notes 6b and 13b, except that United States Ordnance tablets were used. The reference mark is in edge of bushes, 5 meters from edge of bank, and 6.83 meters (22.41 feet) from the station in azimuth 5° 04′.7.

Lothrop (St. Marys County, P. M. Trueblood, 1919).—On north side of Potomac River, 1.8 nautical miles east-southeast from Higgins Point at entrance to Bretons Bay, on a rounding point, about 200 meters east of dense woods, and about 200 meters west of a farm house. It is in a cultivated field owned by Mr. Greenwell, and is about 15 meters back from edge of a 10-foot bluff which is washing away rapidly. The station is marked by a bronze tablet in a tile surrounded by concrete, as described in note 6b, except that a United States Ordnance tablet was used.

Welsh (Westmoreland County, Va., P. M. Trueblood, 1919).—On southwest side of Potomac River, on Coles Point, just below the bluff back of which is a cultivated field. Station is midway of strip about 10 meters wide lying between high-water line and a marshy pond; it is about 4 feet above high water, at edge of grass, in soil composed of sand, shells, and stones. The station and reference marks are bronze tablets set in concrete in tiles surrounded by concrete, as described in notes 6b and 13b, except that United States Ordnance tablets were used. The reference mark is in hard soil, 4 feet above high water, in the bushes east of the pond, and 6.95 meters (22.80 feet) from the station on a line 94° 27′ to the right of *Ragged Point Lighthouse.*

Kaywood 2 (St. Marys County, P. M. Trueblood, 1919).—On north side of Potomac River, on Kaywood Point (known locally as Blue Sow Point), at west side of entrance to Bretons Bay, in a cultivated field, at top of bank 8 feet high, 10 meters from extreme point of bank, 7 meters west of edge of bank, and 3 meters northeast of bank to west. Bank is eroding considerably on east side, but seems permanent to west. Station marked by concrete monument 20 cm. (8 inches) square and 50 cm. (20 inches) long, set in ground with 8 cm. (3.2 inches) projecting. A 5 mm. hole in top marks center. Reference mark, a

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bronze tablet in concrete in a tile surrounded by concrete, note 13b, is in edge of field, about 2 meters from edge of bank, and is 15.10 meters (49.5 feet) from station. At the reference mark the angle from station *Kearney* (see below) to *Kaywood 2* is 16° 41′.1. *Kaywood 1908* is 16.70 meters (54.8 feet) from *Kaywood 2* in azimuth 230° 26′.3.

Kearney (St. Marys County, P. M. Trueblood, 1919).—On north side of Potomac River, on Higgins Point at eastern side of entrance to Bretons Bay, on a ridge of sand and oyster shells 3 feet high and 15 meters west of high-water line. The point is marshy, and its eastern side is not eroding. The station is marked by a bronze tablet in concrete in a tile which is surrounded by concrete, note 6b.

Clement (Charles County, U. S. Bureau of Ordnance, 1918; 1924).—On east side of Potomac River, south side of Swan Point, on lower side of ridge at intersection of lines of telephone poles. Marked by Ordnance Bureau monument flush with surface of ground set in cement and centered with brass disk. Over the station is an iron tripod. Reference mark is nail in blaze in telephone pole 66.4 feet north from station. It is in line with lower outer corner of old frame house several hundred feet in from high-water line.

Admiral (Westmoreland County, Va., Bureau of Ordnance, 1918; 1924).—At upper end of Colonial Beach, on White Point, at north end of board walk, about 50 feet in from high-water line, and a few hundred feet above dancing pavilion. Marked by Ordnance Bureau monument flush with surface of ground, set in cement and centered with brass disk. Reference mark No. 1 is nail in blaze on 12-inch cedar, the only one in the vicinity; it is 24.7 feet from station in azimuth 59° 33′. Reference mark No. 2 is nail in blaze on 12-inch maple tree, the outer tree of a line running perpendicular to high-water mark. It is 34.7 feet from station in azimuth 156° 53′.

Crain (Charles County, Bureau of Ordnance, 1918; 1924).—On northeast side of Potomac River, north of entrance to Neals Sound, and between the sound and the river, about 2,500 yards below Potomac View, and almost abreast of red beacon used as a range mark for entering eastern channel. Station is 30 feet from high-water mark and 25 feet out from foot of ridge 12 feet high. It is just below small phone house and is marked by U. S. E. concrete monument in 6-inch cast-iron pipe, 5 inches above the surface, centered with a 1-inch bolt. Around it are four stakes, 6 inches square, tops flush with surface. Reference mark is blazed on 12-inch S-shaped persimmon tree below the station, at foot of bank, and 30 feet in from high-water mark. Blaze is 3 feet above the ground and 80.05 feet from the station.

Caldwell (Charles County, Bureau of Ordnance, 1918; 1924).—On north shore of Potomac River, on Cobb Island, about 1,500 feet above Wicomico River, 5 feet in from high-water line, and 6 feet below small shack used as phone house. Marked by a tile pipe set in concrete, top flush with surface, and centered with brass disk. Over it is a large wooden tripod.

Lackey (St. Marys County, Bureau of Ordnance, 1918).—On the north shore of Potomac River, on point of land about 1,800 yards southeast of St. Catherines Island, and about 50 feet from water's edge. Marked by permanent marker.

George (Westmoreland County, Va., Bureau of Ordnance, 1918).—On the south shore of Potomac River, on the river side of Hollis Marsh, near the head of Currioman Bay. The station is marked by a permanent marker, but the signal is small, thin and unpainted, and hard to pick up.

Martin (St. Marys County, Bureau of Ordnance, 1918).—On Blakistone Island, near the flagstaff in front of the Edgerton House. Marked by a brass disk.

Matt (St. Marys County, Bureau of Ordnance, 1918).—On Coltons Point. No known permanent marks.

Base (St. Marys County, Bureau of Ordnance, 1918).—On Coltons Point. Not permanently marked.

Margan (Charles County, Bureau of Ordnance, 1918).—On lower Cedar Point, southwest of the Morgantown post office. Station is the farthest out on the point of two marks, the inner being a witness mark. Mark is probably bronze disk of type used by Bureau of Ordnance.

Potomac View (Charles County, Bureau of Ordnance, 1918).—On the north shore of Potomac River, at Potomac View, about 2,100 yards east-southeast of Swan Point, and about 50 feet from water's edge. Marked by brass disk set in concrete.

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WICOMICO RIVER

Corner (Charles County, C. C. Yates, 1908).—On the western shore of Wicomico River, on the eastern side of an island known as Cobb Point Neck, about halfway between Cobb Point and the entrance to Neals Sound, in a cultivated field on a bluff bordered with pine trees, about 15 feet above high water, 3 yards west of a wire fence running along edge of bluff and 21 yards east-northeast of a wire fence which separates cornfield from pine woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station of various points of reference are as follows: Nail in blaze in 3-inch cedar tree, 16.98 meters (55.7 feet), 20° 23′; nail in blaze in 8-inch pine tree, 21.41 meters (70.2 feet), 82° 04′; nail in blaze in 12-inch pine tree, 32.22 meters (105.7 feet), 105° 41′; middle chimney of house, ¼ mile, 147° 28′; left chimney on house on St. Margarets Island, 1⅝ miles, 289° 17′.

Hard (Charles County, C. C. Yates, 1908).—On the western shore of Wicomico River, on point of land known as Rock Point, about 2 miles north of Cobb Point Bar Light, on a low point of land, near several small cedar trees, and about 1 foot above high water. It is 47 yards west of shore, 16 yards south of shore, 30 yards north of shore, about 80 yards northeast of Rock Point Wharf. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Northeast gable of wharf house, 80 yards, 30° 49′; south chimney of Lancaster's store, 170 yards, 78° 35′; point of east gable on house, ¼ mile, 124° 26′; gable of house on wharf at Bushwood, 1¾ miles, 245° 42′; west gable of house, 2 miles, 282° 48′; west gable on one-story house, 2¼ miles, 305° 01′; north chimney of two-story house, 2½ miles, 319° 54′.

Prec (St. Marys County, C. C. Yates, 1908).—On the eastern shore of Wicomico River, on Bluff Point, about 2 miles north-northeast of Cobb Point Bar Light. Station is about 10 feet above high water, 34 yards southeast of nearest end of neck of Bluff Point, 29 yards south-southeast of shore, 16 yards northeast of shore, and 88 yards west by southwest of house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Right chimney of Bailey's house on St. Margarets Island, 1½ miles, 5° 02′; nail in blaze in 3-inch locust tree, 20.64 meters (67.7 feet), 144° 52′; left chimney of Garner's house, 1⅛ miles, 177° 19′; nail in blaze in left one of twin locust trees (12 inches diameter), 30.36 meters (99.6 feet), 182° 15′; near chimney of Scherrer's house, 88 yards, 257° 14′; nail in blaze in 6-inch poplar tree, 33.74 meters (110.7 feet), 271° 39′; nail in blaze in 5-inch poplar tree, 27.71 meters (90.9 feet), 310° 38′; left chimney of cottage, ⅛ mile, 326° 59′.

Weiss (St. Marys County, C. C. Yates, 1908).—On the eastern shore of Wicomico River, on White Point, about 3 miles north by east of Cobb Point Bar Light. Station is near small cedar trees, on a bluff about 8 feet above high water, 13 yards north of and 27 yards south of edges of bluff, and 52 yards east of extreme point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Flagstaff on school house, 1⅝ miles, 52° 24′; nail in blaze in 10-inch cedar tree, 42.29 meters (138.7 feet), 65° 46′; left chimney on two-story house, ¾ mile, 167° 09′; nail in blaze in 3-inch poplar tree, 6.24 meters (20.47 feet), 193° 29′; west spire of Garner's house, ⅝ mile, 272° 10′; nail in blaze in 4-inch poplar tree, 37.80 meters (124.0 feet), 278° 11′; west gable of house on Bushwood Wharf, ⅝ mile, 296° 09′; left chimney on two-story house, 2⅜ miles, 353° 53′.

Charles (Charles County, C. C. Yates, 1908).—On the western shore of Wicomico River, on first point south of entrance to Charleston Creek, and 1 mile north of Rock Point, on a small marshy point, about 6 inches above high water, and 18 yards east of pine woods on a bank 10 feet above high water. Station mark is nail in stub with top 2 inches above ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 15.56 meters (51.0 feet) from the station in azimuth 120° 50′. Distances and azimuths of other points of reference are as follows: Nail in blaze in 10-inch pine tree, 28.46 meters (93.4 feet), 30° 13′; nail in blaze in 12-inch pine tree, 16.66 meters (54.7 feet), 67° 20′; nail in blaze in 7-inch pine tree, 16.87 meters (55.3 feet), 116° 44′; west chimney on two-story house,

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1¼ miles, 248° 15′; west chimney on Garner's house, 1¾ miles, 276° 13′; west gable of house on Bushwood Wharf, 2 miles, 282° 29′.

Lyon (St. Marys County, C. C. Yates, 1908).—On the eastern shore of Wicomico River, on point about ¼ mile north of Bramleigh Creek, and 2 miles north by east of Rock Point. Station is on point of land, between Lyon residence and edge of bank, 100 yards north of small pond which is fringed on river side with cedar trees, about 4 yards north of a bird house on a post, 19 yards east-northeast of most prominent point of bank, 15 yards east-southeast of side of bank, 16 yards north-northeast of another side of bank, and 12 yards south-southwest of a fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Nail in blaze in cedar post of bird-house support, 3.67 meters (12.04 feet), 25° 28′; nail in blaze in 6-inch pear tree, 11.74 meters (38.5 feet), 32° 14′; chimney of house, 1⅝ miles, 103° 27′; west end of peak of roof of house on Chaptico Wharf, 1¾ miles, 160° 36′; corner of fence, 14.15 meters (46.4 feet), 172° 21′; near corner of house, 22.01 meters (72.2 feet), 221° 24′; right corner of small house, 24.59 meters (80.7 feet), 269° 51′; nail in blaze in 4-inch locust tree, 8.82 meters (28.94 feet), 276° 15′; right corner of shed, 14.98 meters (49.1 feet), 310° 49′.

Hedney (Charles County, C. C. Yates, 1908).—On the western shore of Wicomico River, on first point above mouth of Charleston Creek, and about 1¾ miles northwest of White Point, about 25 feet above high water, 16 yards west-southwest of edge of bank, 139 yards north of large tree at edge of bank, 85 yards north of oak tree at edge of bank, 155 yards east-northeast of gum tree 20 inches in diameter on bank of pond, and about ⅛ mile east-southeast of house among trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top about 12 inches below surface of ground. Surface mark is nail in stub with top 5 inches above surface of ground. Distances and azimuths from station to various points of reference are as follows: Middle of gum tree, 138.47 meters (454.3 feet), 54° 17′; near peak of roof between two chimneys, ¾ mile, 146° 19′; near chimney on large house, 1⅝ miles, 218° 50′; chimney of Lyon house, 1⅛ miles, 259° 11′; right chimney of a large house, 2 miles, 279° 34′; middle of island at end of White Point Bar, 1⅞ miles, 305° 16′; nail in blaze in 48-inch oak tree, 73.16 meters (240.0 feet), 316° 59′; nail in blaze in 36-inch walnut tree, 115.63 meters (379.4 feet), 351° 23′.

Farr (St. Marys County, C. C. Yates, 1908).—On the eastern shore of Wicomico River, about 1¼miles south-southeast of Mills Point, and ¼ mile north of the mouth of Manahowic Creek. Station is about 10 feet above high-water mark, 5 yards east by south of edge of bank, 32 yards north-northwest of several pine trees at fish shanty near edge of bank, 22 yards south by east of other trees, and 300 yards west by north of a large house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top 16 inches below surface of ground. Surface mark is nail in stub. Distances and azimuths to various points of reference are as follows: Chimney on left side of house, 1¾ miles, 39° 06′; left peak of house on Chaptico Wharf, ½ mile, 150° 33′; left chimney of house on Mills Point farm, 1¼ miles, 165° 59′; right chimney on Maddox house, 2 miles, 239° 53′; right corner of large house, ¼ mile, 289° 58′; near corner of fish shanty, 23.69 meters (77.7 feet), 335° 55′.

Gust (Charles County, C. C. Yates, 1908).—On the western shore of Wicomico River, on Windmill Point, about ¾ mile north of the mouth of Hedneys Creek and opposite the mouth of Manahowic Creek, on a shell and gravel point bordered by persimmon and cedar trees, about 2 feet above high water, 12 yards northwest of shore, 16 yards south of shore, and 28 yards west-southwest of shore on extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Near peak of roof of house with two chimneys, ⅝ mile, 11° 52′; nail in blaze in 4-inch cedar tree, 5.90 meters (19.36 feet), 44° 23′; nail in blaze in 10-inch cedar tree, 16.18 meters (53.1 feet), 141° 12′; nail in blaze in 8-inch persimmon tree, 7.95 meters (26.08 feet), 206° 31′; near peak of roof of house on Chaptico Wharf, 1¼ miles, 235° 41′; chimney on left side of large house, 1⅜ miles, 258° 27′; chimney on middle of Lyon house, 1¾ miles, 301° 33′.

Eedling (Charles County, C. C. Yates, 1908).—On the western shore of Wicomico River, about 1¼ miles southwest of Mills Point, and about 1 mile

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southeast of mouth of Bowmans Creek, in a shell-covered cultivated field, about 10 feet above high water, 37 yards southwest of shell and gravel beach, 88 yards west-northwest of extreme end of point, and 79 yards north of ditch in marsh. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Reference mark is similar to station mark and is 23.99 meters (78.7 feet) from station in azimuth 270° 03′. Distances and azimuths of other points of reference are as follows: Near peak of roof of Eedling house, ⅝ mile, 125° 09′; nail in blaze in 24-inch oak tree, 33.99 meters (111.5 feet), 190° 42′; nail in blaze in 20-inch gum tree, 26.06 meters (85.5) feet), 221° 22′; near peak of roof of house on Chaptico Wharf, 1⅜ miles, 261° 19′; chimney outside near end of house on hill, 2⅝ miles, 263° 38′; nail in blaze in 3-inch cedar tree, 25.75 meters (84.5 feet), 269° 09′; chimney on right of ell of a house, 2 miles, 279° 26′.

Fact (St. Marys County, C. C. Yates, 1908).—On the eastern shore of Wicomico River, on Mills Point, on south side of mouth of Chaptico Bay, on a long point covered on its southern side with gum and cedar trees, about 10 feet above high water, 23 yards from extreme end of top of bank, 6 yards north of edge of bank, and 8 yards southeast of edge of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from station to various points of reference are as follows: Nail in blaze in 28-inch oak tree, 6.37 meters (20.9 feet), 49° 03′; chimney on ell end of Stoddard house, 1⅞ miles, 149° 55′; chimney on Key house, 2⅛ miles, 192° 41′; near peak of roof of large house, ¼ mile, 267° 12′; nail in blaze in 6-inch cedar tree, 16.26 meters (53.3 feet), 294° 32′; near chimney of large house near shore, ⅝ mile, 310° 40′; west end of peak of house on Chaptico Wharf, ⅞ mile, 335° 40′; nail in blaze in 7-inch cedar tree, 6.20 meters (20.34 feet), 357° 54′.

Bowman (Charles County, C. C. Yates, 1908).—On the western shore of Wicomico River, at northeast side of Bowmans Creek, and 1½ miles west by south of Mills Point. Station is surrounded by water bushes, and is on point of land 1½ feet above high water, 14 yards east of high-water mark, 16 yards north of extreme end of point, 20 yards northeast of side of point, 20 yards south of several cedar trees, and about 150 yards south of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from station to various points of reference are as follows: Chimney on square house, ¼ mile, 13° 35′; Crane house, 2 miles, 105° 20′; nail in blaze in 6-inch cedar tree, 18.37 meters (60.3 feet), 153° 20′; nail in blaze in 7-inch cedar tree, 17.58 meters (57.7 feet), 169° 50′; chimney on near end of house, ½ mile, 200° 50′; peak of roof between two chimneys, 2¼ miles, 294° 37′; nail in blaze in 7-inch cedar tree, 8.88 meters (29.13 feet), 356° 15′.

Burr (Charles County, C. C. Yates, 1908).—On the western shore of Wicomico River, directly opposite the mouth of Chaptico Bay, and ¾ mile north of Bowmans Creek, on hard ground between a sloping bank 10 feet high, covered with trees, and the marshy shore, about 2 feet above high-water mark, 18 yards northwest of extreme point, 23 yards north of shore, 17 yards southwest of shore, and 9 yards southeast of bottom of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Right chimney of two-and-one-half-story house, 1¼ miles, 6° 22′; chimney in middle of large house, 1⅛ miles, 22° 22′; nail in blaze in 11-inch persimmon tree, 7.67 meters (25.16 feet), 31° 26′; nail in blaze in 9-inch persimmon tree, 2.60 meters (8.53 feet), 126° 57′; nail in blaze in 10-inch persimmon tree, 3.86 meters (12.66 feet), 170° 33′; main chimney of Key house, 2¼ miles, 227° 04′; chimney on Maddox house, 3⅛ miles, 292° 29′; west end of peak of roof of house on Chaptico Wharf, 2⅛ miles, 311° 16′.

Hayden (Charles County, C. C. Yates, 1908).—On the western shore of Wicomico River, about 1 mile west of Cohouck Point, on marshy land, surrounded by water bushes, about 1 foot above high water, 5 yards northwest of shore, and 17 yards southeast of line of trees on top of bank. Station mark is nail in stub with top 3 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 11.51 meters (37.8 feet) from station in azimuth 125° 26′. Distances and azimuths to other points of reference are as follows: Chimney on middle of

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square house, 5/8 mile, 23° 31′; nail in blaze in 18-inch cedar tree, 23.45 meters (76.9 feet), 82° 39′; nail in blaze in 8-inch locust tree, 16.55 meters (54.3 feet), 113° 48′; nail in blaze in 8-inch oak tree, 18.74 meters (61.5 feet), 171° 54′; chimney on Key house, 1¾ miles, 234° 10′; chimney on Maddox house, 3¼ miles, 302° 53′; right chimney outside of old house, 1⅝ miles, 312° 56′; between two main chimneys of large house on Chaptico Wharf, 2⅜ miles, 323° 36′; west roof peak of house on Chaptico Wharf, 2¼ miles, 325° 16′.

Cohouck (St. Marys County, C. C. Yates, 1908).—On the eastern shore of Wicomico River, on Cohouck Point, on the northern side of entrance to Chaptico Bay, about 6 feet above high-water mark, 12 yards east of edge of bank, 35 yards south of edge of bank, 85 yards northeast of extreme point, and about 25 yards north of marsh. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station of various points of reference are as follows: Chimney on flat-roof house near mouth of Bowmans Creek, 2 miles, 50° 25′; chimney on far end of house, 1⅜ miles, 85° 12′; chimney on house on piles, 1⅛ miles, 94° 22′; peak of front gable of house on ridge, 2¼ miles, 176° 20′; nearest chimney on negro quarters, 1 mile, 183° 56′; near peak of roof of barn, 1 mile, 210° 07′; chimney outside near end of 2½-story house, ¾ mile, 312° 27′; right chimney of Lyon's house near Mills Point, 1⅛ miles, 354° 58′.

Stoddard (Charles County, C. C. Yates, 1908).—On the western shore of Wicomico River, about ½ mile south-southeast of Stoddard Point, and 1 mile west-northwest of Cohouck Point, on a gravel, grass, and shell point, near a lone gum tree, about 2 feet above high-water mark, 6 yards south-southwest of side of point, 6 yards north of side of point, 10 yards west of extreme end of point, and 158 yards east-northeast of Stoddard house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney of house on piles, ½ mile, 21° 59′; near corner of chimney on Stoddard house, 158 yards, 78° 06′; nail in blaze in 24-inch pear tree, 4.58 meters (15.03 feet), 108° 51′; nail in blaze in 4-inch pear tree, 9.41 meters (30.87 feet), 143° 09′; outside chimney of small house, 1½ miles, 176° 30′; peak of front gable of large house on ridge, 1⅞ miles, 206° 16′; chimney on top of Key house, 1½ miles, 248° 09′; chimney outside of 2½-story house, 2⅜ miles, 307° 20′; right chimney of large house, 2 miles, 326° 00′; peak of roof of house on Chaptico Wharf, 2⅝ miles, 333° 41′.

Key (St. Marys County, C. C. Yates, 1908).—On the northeastern shore of Wicomico River, on a high bluff about 1 mile north of Cohouck Point, about 30 feet above high-water mark, in an orchard, about 24 yards northeast of edge of bank, 49 yards north of edge of bank, 15 yards east of edge of bank, 130 yards south-southwest of negro quarters, and 130 yards west of fence which incloses an orchard. Station mark is center of triangle on standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Peak of roof of house on piles, 1⅜ miles, 58° 11′; between two chimneys of large brick house on hill, 2½ miles, 68° 33′; near corner of near chimney on Stoddard house, 1¼ miles, 71° 17′; near corner of near chimney of small house, 1⅜ miles, 85° 53′; peak of roof between two chimneys on a house, 2 miles, 88° 01′; peak of roof of very large barn, 3 miles, 127° 40′; chimney on middle of roof of 2-story house, 3 miles, 132° 54′; near corner of near chimney of negro quarters, 130 yards, 187° 42′; nail in blaze in 12-inch apple tree, 22.15 meters (72.7 feet), 206° 46′; chimney of Key house, ¼ mile, 235° 25′; nail in blaze in 14-inch apple tree, 13.39 meters (43.9 feet), 239° 45′; peak of roof of large barn, ½ mile, 330° 04′; nail in blaze in 12-inch apple tree, 7.94 meters (26.05 feet), 352° 13′.

Upper (Charles County, C. C. Yates, 1908).—On the southwestern shore of Wicomico River, on Stoddard Point (upper point), about 2¼ miles north-northwest of Mills Point, on a long narrow point, about 2 feet above high water, 5 yards south of side of point, 8 yards northwest of side of point, 38 yards west of high-water mark on middle of point, and 138 yards west by north of high-water mark on extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Left peak of roof of barn, ½ mile, 6° 24′; left chimney of old house, ½ mile, 22° 51′; tangent of next point, ⅝ mile, 114° 29′; right chimney of house on ridge, 3 miles, 152°

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37′; chimney outside small house on opposite shore, 1¼ miles, 186° 50′; near corner post of piazza of large house, 1⅝ miles, 221° 09′; chimney of Key house, 1½ miles, 269° 26′; right chimney of Stoddard house, ½ mile, 342° 34′.

Barber (St. Marys County, C. C. Yates, 1908).—On the northeastern shore of Wicomico River, about ¾ mile north-northeast of Stoddard Point, on grass land, about 2 feet above high-water mark, 3 yards north of shore, 20 yards west of trees which extend along creek, 4 yards southwest by west of a corner of a fence, and 15 yards southeast of another corner of a fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station of various points of reference are as follows: Left chimney of Stoddard house, 1⅛ miles, 13° 13′; near peak of roof between two chimneys, 1½ miles, 55° 01′; chimney on left end of small house, 1½ miles, 72° 40′; nail in blaze in top fence rail, 10.62 meters (34.8 feet), 145° 52′; nail in blaze in 5-inch cedar tree, 10.75 meters (35.3 feet), 165° 15′; nail in blaze in top of chestnut fence post, 3.43 meters (11.25 feet), 255° 10′; nail in blaze in 5-inch persimmon tree, 13.94 meters (45.7 feet), 269° 02′; tangent of point, ¼ mile, 308° 59′; near large chimney of negro quarters, 1⅛ miles, 311° 53′.

River Springs Catholic Chapel cross (St. Marys County, C. C. Yates, 1908).—On the northern side of Potomac River, inland about ¾ mile north by west of River Springs. Station is cross on building known as River Springs Catholic Chapel.

Rock Point Catholic Church cross (Charles County, C. C. Yates, 1908).—On the eastern shore of Wicomico River, at Rock Point, in settlement of that name. Station is center of cross on Rock Point Catholic Church, the larger of two similar buildings, the smaller being the schoolhouse.

Blakistone (St. Marys County, C. C. Yates, 1908).—On the eastern shore of Wicomico River, about ¼ mile southeast of Plowdens Wharf at Bushwood, and about 3 miles north-northeast of Cobb Point Bar Light. Station is on second bluff southeast of Bushwood Wharf, 15 feet above high-water mark, 15 yards southeast of large dogwood tree, about 6 yards northeast of edge of bluff, 3 yards southwest of rail fence, about 15 yards southwest of an ice house near orchard, and 5 to 10 yards south to east of several small cedar trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Left peak of roof of wharf house, 1⅞ miles, 112° 58′; large tree, 13.36 meters (43.8 feet), 136° 30′; chimney of Blakistone store, ¼ mile, 144° 30′; near peak of roof of Blakistone house, 250 yards, 195° 14′; point of cupola on Ranahan house, 1¾ miles, 210° 27′; near left corner of sill of ice house, 14.15 meters (46.4 feet), 251° 57′; right lower corner, 15.76 meters (51.7 feet), 279° 15′; near peak of roof, ¼ mile, 331° 36′.

Perry (St. Marys County, C. C. Yates, 1908).—On the southeastern shore of Chaptico Bay, about 1 mile northeast of Mills Point, and ⅝ mile southeast of Cohouck Point, in an open field about 20 feet above high water, 8 yards northwest of edge of bank, 9 yards south-southwest from edge of gully in bank, 5 yards south of edge of bank of gully, and about 150 yards north-northeast of creek. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station of various points of reference are as follows: Chimney on right end of house, 2⅜ miles, 56° 50′; chimney on flat-roof house, 2½ miles, 66° 12′; left chimney of Crane house, 3⅝ miles, 82° 46′; nail in blaze in 3-inch locust tree, 10.49 meters (34.4 feet), 93° 43′; nearest chimney on larger part of double brick house, 3⅝ miles, 93° 59′; left chimney of house on piles, 1¾ miles, 106° 37′; near peak of roof on house, 2 miles, 114° 02′; near corner of near chimney of Stoddard house, 2 miles, 118° 08′; nail in blaze in 3-inch locust tree, 8.44 meters (27.69 feet), 132° 49′; peak of front gable of house on ridge, 3 to 4 miles, 165° 00′; nail in blaze in 8-inch locust tree, 5.95 meters (19.52 feet), 187° 49′; near chimney of large house on ridge, 1⅝ miles, 220° 17′; chimney outside of 2½-story house, 150 yards, 340° 24′.

ST. CATHERINE SOUND

St. Catherine (St. Marys County, C. C. Yates, 1908).—On the southern shore of St. Catherine Sound, on the northern side of St. Catherine Island, about

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12 feet above high-water mark. 86 yards south of edge of bank, 49 yards west of line of young cedar trees, 198 yards northeast of lone 3-foot mulberry tree, and 207 yards southeast of small house among trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, with top 12 inches below surface of ground. Distances and azimuths to various points of reference are as follows: Right side of right chimney on small house, 207 yards, 111° 56′; left chimney of large house on St. Margarets Island, 1⅜ miles, 133° 34′; right chimney of house on Bullock Island, ½ mile, 164° 53′; chimney of Blakistone house, ⅝ mile, 216° 31′; left chimney of Bailey house, ⅞ mile, 257° 11′; right chimney of Young house on Waterloo Point, ⅞ mile, 306° 40′.

Sound (St. Marys County, C. C. Yates, 1908).—On the northern shore of St. Catherine Sound, about 2¼ miles east by north of Cobb Point Bar Light, and ½ mile east of Bullock Island, about 15 feet above high-water mark, 35 yards north of edge of bank, 2 yards east of wire fence, 65 yards east of edge of bank, 57 yards south of southeast corner of fence of house yard, and 63 yards south by west of telephone pole line which is on same side of road. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney on smaller house on St. Catherine Island, ¾ mile, 47° 56′; right chimney of house on Bullock Island, ½ mile, 93° 17′; near end of small chimney on large house, 1 mile, 112° 08′; left corner post of fence, near, 149° 58′; near corner of chimney of small house, near, 171° 18′; near corner post of fence, near, 185° 51′; right peak of roof of barn, near, 200° 13′; chimney on Blakistone store, ½ mile, 274° 09′; near chimney of Bailey house, ½ mile, 302° 52′.

Bailey (St. Marys County, C. C. Yates, 1908).—On the northeastern shore of St. Catherine Sound, about ¾ mile east by north of eastern end of St. Catherine Island, and 1 mile north of Potomac River, on shelly ground on the Bailey property, about 5 feet above high-water mark, 10 yards northeast of high-water mark, 7 yards northeast of wire fence, 35 yards south-southeast of corner of wire fence, 30 yards north-northwest of corner of wire and wooden fences, 25 yards north of Bailey house, and 40 yards west by south of corner of wooden fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: West chimney of house on Waterloo Point, ¾ mile, 9° 32′; nail in blaze in first of six cedar trees, 10.76 meters (35.3 feet), 29° 16′; right chimney of small house on St. Catherine Island, 1 mile, 79° 51′; nail in blaze in one of four 3-inch cedar trees, 12.37 meters (40.6 feet), 105° 18′; nail in blaze in 8-inch cedar tree, 27.82 meters (91.3 feet), 136° 48′; corner of wire fence, 32.06 meters (105.2 feet), 138° 18′; chimney on house, 150 yards, 182° 27′; corner of wooden fence, 37.49 meters (123.0 feet), 267° 41′; chimney of Bailey house, 25 yards, 295° 15′; junction of wire and wooden fences, 26.22 meters (86.0 feet), 346° 24′.

Waterloo (St. Marys County, C. C. Yates, 1908).—On the southeastern shore of St. Catherine Sound, about ¾ mile east-southeast of St. Catherine Island, and about ¼ mile north of Potomac River. Station is at top of rise in field, about 8 feet above high-water mark, 48 yards east by south of shore at point where several mulberry trees stand, 43 yards south of a large sugarberry tree, 19 yards south by east of wire-fence post, and 200 yards north of Young house on Waterloo Farm. Station mark is center of standard cement monument of the Maryland Shell Fish Survey, note 16, buried with top 12 inches below surface of ground. Distances and azimuths to various points of reference are as follows: Nail in blaze in 6-inch apple tree, 26.18 meters (85.9 feet), 5° 09′; near peak of roof of Young house, 200 yards, 8° 16′; left tangent of St. Catherine Island, ¾ mile, 101° 40′; right chimney of roof of house on Bullock Island, 1⅜ miles, 138° 38′; near peak of roof of house, 1¾ miles, 154° 16′; near end of peak of Blakistone barn, 1 mile, 164° 21′; peak of gable of Blakistone house at River Springs, ⅞ mile, 183° 13′; near peak of roof of Bailey house, ¾ mile, 192° 20′; near peak of roof of Yates house, ½ mile, 210° 32′; near peak of roof of Quaid house, ¼ mile, 232° 44′; near peak of house, ½ mile, 253° 50′; nail in blaze in 5-inch apple tree, 34.78 meters (114.1 feet), 272° 39′; nail in blaze in 8-inch branch on 14-inch apple tree, 24.90 meters (81.7 feet), 314° 53′.

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ST. CLEMENT BAY

St. Patrick (St. Marys County, C. C. Yates, 1908).—On the western shore of lower St. Clement Bay, about 1½ miles north of Blakistone Island, and ½ mile north-northeast of entrance to St. Patricks Creek, on cultivated land, about 8 feet above high water, 26 yards west-northwest of edge of bank, 17 yards east-southeast of a lone persimmon tree, 100 yards north-northeast of rail and wire fence, and 200 yards south of a barn in corner of field. Station mark is nail in stub with top about flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is about on line to a persimmon tree, and is 15.35 meters (50.4 feet) from station in azimuth 120° 09′. Distances and azimuths to other points of reference are as follows: Chimney of left house on Blakistone Island, 2⅛ miles, 8° 05′; peak of near gable of large house, ¼ mile, 66° 26′; chimney of house, ⅜ mile, 112° 22′; nail in blaze in 12-inch persimmon tree, 16.32 meters (53.5 feet), 120° 12′; right peak of roof of barn, 200 yards, 169° 43′; right tangent of chimney of house, 200 yards, 186° 24′; near corner of near chimney of priest's house, 2⅜ miles, 240° 24′; near chimney of Yates house, 1 mile, 265° 51′.

St. Clement (St. Marys County, C. C. Yates, 1908).—On the northern shore of Heron Island Sound, on Newtown Neck, about 2 miles northwest of Blakistone Island Light, in a cultivated field, about 10 feet above high water, 17 yards northeast of shore, 32 yards east of shore, 32 yards north by west of most prominent point, and 70 yards southeast of another point. Station mark is nail in stub with top about 3 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16, about on line to a large mulberry tree, and 22.01 meters (72.2 feet) from station in azimuth 221° 29′. Distances and azimuths to other points of reference are as follows: Near corner of left chimney of Colton Hotel, 1⅞ miles, 67° 06′; left corner of left chimney of large house, 1½ miles, 91° 48′; nail in blaze in 6-inch locust tree, 31.98 meters (104.9 feet), 95° 51′; peak of near gable of house on Canoe Neck Creek, 2¾ miles, 157° 20′; left tangent of trees on Long Point, ⅝ mile, 158° 05′; nail in blaze in 30-inch mulberry tree, 23.30 meters (76.4 feet), 221° 02′; right chimney of house, ⅜ mile, 259° 56′; nail in blaze in 3-inch locust tree, 28.52 meters (93.6 feet), 347° 29′.

Canoe (St. Marys County, C. C. Yates, 1908).—On the west shore of lower St. Clement Bay, opposite Long Point, and about 2 miles north of Blakistone Island, in a cultivated field, about 10 feet above high water, 4 yards northwest of edge of bank, 4 yards southwest of ditch and trees in hollow, and 60 yards south by east of a large apple tree. Station mark is nail in stub with top about 2 inches above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 53.28 meters (174.8 feet) from station in azimuth 162° 43′. Distances and azimuths from the station of other points of reference are as follows: Chimney of small house, 1⅛ miles, 33° 52′; near end of roof of house, ½ mile, 69° 07′; nail in blaze in 26-inch pear tree, 54.82 meters (179.9 feet), 162° 46′; chimney outside of house, ½ mile, 164° 17′; left chimney of large house, ⅝ mile, 193° 06′; chimney of house, 2⅛ miles, 230° 35′; near peak of roof of barn, 1¼ miles, 271° 44′; near chimney of Yates house, ⅞ mile, 297° 15′.

Roof (St. Marys County, C. C. Yates, 1908).—On the eastern side of St. Clement Bay, about ½ mile north-northeast of entrance to bay, and ⅜ mile east-southeast of extreme end of Long Point. Station is 3-inch square staff fastened and braced on western peak of roof of a barn behind a large house.

Woods (St. Marys County, C. C. Yates, 1908).—On the western shore of St. Clement Bay, about 1 mile north of Long Point, and ½ mile northeast of entrance to Canoe Neck Creek, about 1 foot above high water, 2 yards northwest of shore, 13 yards southeast of a bank 4 feet high, 75 yards southwest of a shell point, and southeast of a grove of pine, oak, and persimmon trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Nail in blaze in 20-inch pine tree, 9.85 meters (32.32 feet), 50° 24′; nail in blaze in 10-inch pine tree, 13.53 meters (44.4 feet), 88° 45′; nail in blaze in 12-inch pine tree, 12.18 meters (40.0 feet), 120° 58′; left chimney of house, 1½ miles, 222° 58′; chimney of house, 1¼ miles, 235° 55′; chimney of house, ⅞ mile, 321° 16′.

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Rails (St. Marys County, C. C. Yates, 1908).—On the eastern shore of St. Clement Bay, about ¾ mile northeast of Long Point and 3¼ miles north-northeast of Blakistone Island Light, about 12 feet above high water, 16 yards southeast of edge of bank, 3 yards northeast of rail fence, 40 yards northeast of a marshy creek between two fences, and 400 yards west to northwest of woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Nail in blaze in 7-inch cedar tree, 3.77 meters (12.37 feet), 56° 14′; nail in blaze in 10-inch gum tree, 10.24 meters (33.6 feet), 91° 57′; near chimney of house with several gables, 1½ miles, 111° 06′; left chimney of large house, 1¼ miles, 168° 03′; chimney of house, 1 mile, 211° 23′; near peak of roof of priest's house, ⅞ mile, 229° 24′; nail in blaze in 5-inch locust tree, 5.27 meters (17.29 feet), 304° 58′.

Chapel (St. Marys County, C. C. Yates, 1908).—On the eastern shore of St. Clement Bay, on point about ⅝ mile southeast of Shipping Point and 1½ miles northeast of Long Point. Station is on southwest slope of a point about 15 feet high, 10 feet above high water, 5 yards northeast of edge of bank, 7 yards southeast of edge of bank, 7 yards east-southeast of point of bank, 25 yards west-southwest of a cultivated field, and 3 to 10 yards west to southwest of a dense growth of young pine trees. Station mark is nail in stub with top flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is about 9 yards from edge of bank, on edge of woods, and is 17.12 meters (56.2 feet) from station in azimuth 245° 49′. Distances and azimuths from the station to other points are as follows: Near peak of roof of barn, 1 mile, 11° 08′; chimney of Yates's house, 1⅜ miles, 26° 32′; chimney outside of house, ¾ mile, 88° 31′; near peak of gable of house, ¾ mile, 130° 57′; chimney on right end of house, 1¼ miles, 146° 34′; peak of front gable of house, 2 miles, 162° 29′; near peak of roof of small house, ¾ mile, 200° 29′; peak of gable of house, ⅝ mile, 212° 02′; nail in blaze in 6-inch pine tree, 5.68 meters (18.64 feet), 226° 58′; nail in blaze in 4-inch pine tree, 3.10 meters (10.17 feet), 264° 47′; nail in blaze in 3-inch pine tree, 9.38 meters (30.77 feet), 304° 44′.

Shipping (St. Marys County, C. C. Yates, 1908).—On the western shore of St. Clement Bay, on Shipping Point, about ⅜ mile southwest of Howards Wharf and 1¾ miles north-northeast of Long Point, on a sand and grass point, about 1 foot above high water, 5 yards southwest of shore, 6 yards north of shore, 16 yards west-northwest of extreme end of point, 20 yards east-southeast of woods on point, and 300 yards northeast of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Left tree on Long Point, 1 mile, 16° 43′; post of bird house, 250 yards, 58° 13′; chimney on ell of Colton house, 300 yards, 67° 54′; nail in blaze in 3-inch cedar tree, 18.51 meters (60.7 feet), 112° 56′; nail in blaze in 5-inch cedar tree, 17.18 meters (56.4 feet), 138° 27′; right chimney of house, ⅝ mile, 147° 31′; flagstaff at Maycroft, 1 mile, 158° 57′; nail in blaze in 3-inch cedar tree, 3.76 meters (12.34 feet), 175° 18′; peak of front gable of house, 2 miles, 194° 38′; near peak of front gable of house, ⅝ mile, 271° 24′; right tangent of right chimney of priest's house, 1 mile, 313° 57′; left peak of roof of barn, 1½ miles, 353° 24′.

Mansion (St. Marys County, C. C. Yates, 1908).—On the eastern shore of St. Clement Bay, about ½ mile southeast of Howards Wharf and 2 miles north-northeast of Long Point, about 20 feet above high water, 6 yards northeast of edge of bank, 125 yards southwest of a house, and 85 yards west of fruit trees. Station mark is nail in stub with top about flush with ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 44.26 meters (145.2 feet) from station in azimuth 199° 04′. Distances and azimuths from the station to other points of reference are as follows: Peak of front gable of Colton house, ⅞ mile, 88° 58′; right chimney of house, 1 mile, 121° 00′; nail in blaze in 7-inch cedar tree, 47.34 meters (155.3 feet), 156° 20′; nail in blaze in 7-inch cedar tree, 43.77 meters (143.6 feet), 198° 00′; near corner of house, 127 yards, 239° 17′; near corner of corncrib, 99 yards, 258° 56′; nail in blaze in 14-inch apple tree, 77.64 meters (254.7 feet), 278° 24′; near corner of an outbuilding, 111 yards, 299° 21′.

Howards (St. Marys County, C. C. Yates, 1908).—On the northeastern shore of St. Clement Bay, about 2 miles north-northeast of Long Point, ½ mile

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northeast of Shipping Point, and ⅛ mile east of Howards Wharf, in a field, about 20 feet above high water, 8 yards north of edge of bank, 16 yards west-northwest of edge of ravine, 18 yards northwest of extreme end of point of bank, 70 yards west of another ravine, 100 yards west-northwest of a wire fence, and 250 yards south of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Left chimney of Yates's house, 2¼ miles, 16° 59′; chimney outside of house, 1⅛ miles, 39° 03′; nail in blaze in 6-inch cedar tree, 8.62 meters (28.28 feet), 55° 21′; nail in blaze in 7-inch cherry tree, 23.75 meters (77.9 feet), 85° 52′; cupola on Maycroft's barn, 1 mile, 125° 16′; flagstaff at Maycroft, 1 mile, 127° 59′; 36-inch oak tree, 200 yards, 151° 04′; chimney of house, 250 yards, 156° 27′; left peak of roof of barn, 250 yards, 223° 57′; near peak of roof of house, ¼ mile, 242° 05′; chimney of house in woods, ⅜ mile, 284° 47′; nail in blaze in 3-inch cedar tree, 12.15 meters (39.9 feet), 339° 55′.

Mileys (St. Marys County, C. C. Yates, 1908).—On the western shore of St. Clement Bay, about ½ mile west-northwest of Howards Wharf, ½ mile northwest of Shipping Point, and ⅛ mile north of entrance to Mileys Creek. Station is among water bushes, on marsh land, about 1 foot above high water, 12 yards southwest of shore, 20 yards west of shore, and 150 yards east-southeast of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Left chimney of house, 150 yards, 115° 01′; right corner of chimney of house, 150 yards, 125° 49′; near peak of roof of house, ¼ mile, 154° 11′; between two chimneys of old house, ½ mile, 180° 29′; right chimney of old house, ⅞ mile, 218° 40′; right chimney of Howard's house, ½ mile, 265° 55′; left corner of left chimney of priest's house, 1½ miles, 319° 07′.

Bank (St. Marys County, C. C. Yates, 1908).—On the eastern shore of St. Clement Bay, about ¼ mile north of Howards Wharf, ⅝ mile north-northeast of Shipping Point, and ⅝ mile east-northeast of entrance to Mileys Creek, in a field adjoining an orchard back of a tree-fringed shore, 12 feet above high water, 20 yards east of edge of field, 17 yards south of a small gully, and 50 yards north of a fence dividing orchard and field. Station mark is nail in stub with top about flush with surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 18.53 meters (60.8 feet) from station in azimuth 137° 52′. Distances and azimuths from the station of other points of reference are as follows: Nail in blaze in 18-inch cherry tree, 37.03 meters (121.5 feet), 19° 11′; near chimney outside small house on Mileys Creek, ¾ mile, 67° 46′; chimney outside right end of house, ⅝ mile, 80° 49′; flagstaff at Maycroft, ⅝ mile, 114° 39′; nail in blaze in 22-inch cherry tree, 19.69 meters (64.6 feet), 137° 56′; right chimney of house, ½ mile, 180° 50′; nail in blaze in 13-inch walnut tree, 13.49 meters (44.3 feet), 208° 11′; tree at corner of orchard, 66 yards, 306° 00′; chimney of house, ⅛ mile, 353° 26′.

Profound (St. Marys County, C. C. Yates, 1908).—On the western shore of upper St. Clement Bay, about ½ mile south of Cedar Point, and 1 mile north of Shipping Point, on the southern side of the point on which Hudson's house is located, about 12 feet above high water, 3 yards east-southeast of north corner and 3 yards north-northeast of south corner of a chicken house, 25 yards west of extreme end of point, 16 yards southeast of a well, 5 yards southwest of a drain from a well, 16 yards southwest of edge of bank, and 4 yards southeast of top of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Near outside chimney of house, ½ mile, 11° 55′; left corner of chicken house, 1.84 meters (6.04 feet), 23° 35′; left side of left chimney of Hudson's house, 44 yards, 92° 50′; right corner of chicken house, 2.30 meters (7.55 feet), 104° 10′; nail in blaze in right branch of 35-inch pear tree, 6.19 meters (20.31 feet), 109° 32′; near corner of kitchen, 14.35 meters (47.1 feet), 124° 28′; center of standpipe at well, 13.21 meters (43.3 feet), 144° 05′; near corner of right chimney of house, ¼ mile, 144° 40′; peak of front gable of house, ⅜ mile, 177° 27′; nail in blaze in 14-inch apple tree, 8.79 meters (28.84 feet), 187° 34′; peak of front gable of house, 2 miles, 207° 23′; near corner of near chimney of house, ½ mile, 249° 50′; nail in blaze in 7-inch cherry tree, 3.54 meters (11.61 feet), 268° 59′; chimney of house on Howard Point, ⅝ mile, 311° 12′.

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Cecil (St. Marys County, C. C. Yates, 1908).—On the eastern shore of upper St. Clement Bay, about ½ mile southeast of Cedar Point, and 1 mile north of Shipping Point, in a field, about 12 feet above high water, 14 yards northeast of extreme edge of bank, 14 yards east of edge of bank, 21 yards southeast of edge of bank, 25 yards north of marshy gully, 130 yards west-southwest of a fence surrounding a farmhouse, and 135 yards west-southwest of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from station to various points of reference are as follows: Near corner of near chimney of house, ¾ mile, 41° 36′; near corner of chimney outside of house, ¾ mile, 52° 52′; peak of front gable of house, ½ mile, 121° 50′; near peak of roof on Cobrums Wharf, ⅞ mile, 134° 55′; largest chimney of house on ridge, 2¾ miles, 147° 18′; near corner of chimney of house on ridge, 2½ miles, 168° 32′; peak of front gable of house, 1¾ miles, 196° 52′; near corner of house, 136 yards, 242° 46′; nail in blaze in 5-inch cedar tree, 15.07 meters (49.4 feet), 317° 04′; near peak of roof of large barn, ¾ mile, 328° 37′; chimney of house, ⅝ mile, 352° 19′.

Radec (St. Marys County, C. C. Yates, 1908).—On the western shore of upper St. Clement Bay, on Cedar Point, about ⅜ mile southeast of Cobrums Wharf, and 1¼ miles south of Stones Wharf, on a point, about 3 feet above high water, 23 yards northwest of shore, 32 yards south of shore, 75 yards west of extreme end of point, 45 yards northeast of outlet of a small pond, and 14 yards north-northeast of a small cedar tree. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Right side of right chimney of Hudson's house, ½ mile, 5° 41′; nail in blaze in 7-inch cedar tree, 13.03 meters (42.7 feet), 18° 43′; right tangent of house, ⅛ mile, 24° 42′; peak of front gable of house, ⅜ mile, 120° 17′; near peak of roof of wharf house, ⅜ mile, 136° 01′; chimney of house, ¾ mile, 146° 41′; near peak of roof on Stones Wharf, 1¼ miles, 178° 21′; left chimney of house, 1¼ miles, 179° 26′; left tangent of left chimney of old house, ¾ mile, 236° 50′; nail in blaze in 14-inch cedar tree, 25.89 meters (84.9 feet), 246° 24′; nail in blaze in 6-inch cedar tree, 17.80 meters (58.4 feet), 271° 25′; left point of roof of house, ¾ mile, 306° 31′; left chimney of house on Howard Point, 1⅛ miles, 333° 55′.

Place (St. Marys County, C. C. Yates, 1908).—On the eastern shore of upper St. Clement Bay, about ¾ mile east of Cobrums Wharf, ⅝ mile southeast of Guest Point and ½ mile east-northeast of Cedar Point, on the southern edge of a cultivated field, about 10 feet above high water, 4 yards north of edge of bank, 20 yards east-southeast of edge of bank, 40 yards east-northeast of extreme end of marsh point, 50 yards north of edge of marsh, and 95 yards west-northwest of a corncrib. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Near peak of roof of house on next point, ⅝ mile, 4° 34′; chimney outside near end of house, 1¼ miles, 29° 39′; right tangent of right chimney of Hudson's house, ⅞ mile, 40° 04′; peak on front gable of house, ⅝ mile, 65° 45′; near peak of roof on Cobrums Wharf, ¾ mile, 97° 34′; left tangent of left chimney of large house, ¼ mile, 196° 15′; left tangent of chimney of shack, 112 yards, 300° 34′; nail in blaze in 5-inch apple tree, 15.43 meters (50.6 feet), 304° 04′; nail in blaze in old 5-inch stump, 6.53 meters (21.42 feet), 336° 21′.

Guest (St. Marys County, C. C. Yates, 1908).—On the eastern shore of upper St. Clement Bay, on Guest Point, about ½ mile northeast of Cobrums Wharf, and ⅝ mile south-southeast of Stones Wharf, on a marsh point, about 3 feet above high water, 32 yards north of shore, 43 yards northeast of shore, 45 yards east of shore, 95 yards west-northwest of south corner of fence, and 175 yards south-southwest of north corner of fence at edge of bank. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Left tangent of left chimney of Hudson's house, 1⅛ miles, 9° 16′; near chimney of house, ⅝ mile, 14° 25′; chimney on middle of house among trees, ⅝ mile, 20° 24′; nail in blaze in cedar tree 6 inches in diameter, 12.57 meters (41.2 feet), 42° 59′; near peak of roof on Cobrums Wharf, ½ mile, 47° 02′; nail in blaze in locust tree 6 inches in diameter, 20.25 meters (66.4 feet), 62° 37′; near corner of chimney of house on hill, 1¾ miles, 129° 10′;

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near corner of largest chimney of house on hill, 1⅞ miles, 136° 55′; near peak of roof on Stones Wharf, ⅝ mile, 165° 03′; near corner of highest chimney on Greenwell's house, ¾ mile, 168° 11′; cedar tree, 150 yards, 184° 40′; left corner of chimney of house, 150 yards, 225° 00′; peak of near gable of house on hill, 1 mile, 228° 42′; near peak of roof of house, ¼ mile, 263° 18′; near corner of near chimney of old house, ¼ mile, 293° 00′; left chimney of house, 1⅝ miles, 343° 32′.

Cobrums (St. Marys County, C. C. Yates, 1908).—On the western shore of upper St. Clement Bay, on southern side of entrance to Tomakokin Creek, about 1 mile south-southwest of Stones Wharf and 100 yards northwest of Cobrums Wharf, on a marsh point, about 2 feet above high water, 65 yards north-northwest of shore end of Cobrums Wharf, 7 yards south of shore, 8 yards southwest of shore, 12 yards west of shore at extreme end of point, and 17 yards east-northeast of a fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Nail in blaze in one of several bushes, 17.04 meters (55.9 feet), 36° 21′; near peak of roof of barn, ⅛ mile, 45° 41′; nail in blaze in 36-inch cherry tree, 30.28 meters (99.3 feet), 87° 39′; chimney on near end of house, ⅝ mile, 156° 03′; left tangent of left chimney of house on hill, 1¾ miles, 183° 30′; near peak of roof of house on Stones Wharf, 1 mile, 194° 14′; peak of front gable of house, 1½ miles, 230° 09′; left tangent of left chimney of old house, ⅞ mile, 263° 07′; left corner of house on Cobrums Wharf, 70 yards, 318° 41′; right corner of house on Cobrums Wharf, 65 yards, 325° 23′; right chimney of house, ½ mile, 331° 25′.

Tomakokin (St. Marys County, C. C. Yates, 1908).—On the western shore of upper St. Clement Bay, on northern side of entrance to Tomakokin Creek, about ⅜ mile northwest of Cobrums Wharf and ¾ mile southwest of Stones Wharf, on edge of cultivated field, about 4 feet above high water, 4 yards west of shore, 12 yards northwest of high-water mark, 14 yards south-southwest of walnut tree, and 300 yards south-southeast of a barn. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Near corner of chimney of house, ⅜ mile, 39° 26′; left tangent of left chimney of house, ⅝ mile, 85° 22′; nail in blaze in 6-inch mulberry tree, 29.18 meters (95.7 feet), 92° 48′; nail in blaze, 40.31 meters (132.3 feet), 104° 38′; right peak of roof of barn, 300 yards, 156° 22′; chimney of house showing over barn roof, ⅛ mile, 193° 29′; right chimney of Greenwell house, ⅞ mile, 210° 50′; near peak of roof on Stones Wharf, ¾ mile, 211° 53′; nail in blaze in 11-inch walnut tree, 12.71 meters (41.7 feet), 214° 32′; chimney of old house near Guest Point, ⅝ mile, 258° 59′; left corner of left chimney of old house, 1 mile, 277° 16′; near peak of roof on Cobrums Wharf, ⅜ mile, 321° 34′; right peak of roof of barn, ¼ mile, 335° 53′.

Dynard (St. Marys County, C. C. Yates, 1908).—On the western shore of upper St. Clement Bay, about ½ mile southwest of Stones Wharf and ¼ mile north of Tomakokin Creek, in an angle of rail fence, in corner of cultivated field, about 2 feet above high water, 8 yards west of shore, 9 yards west-southwest of shore, and 9 yards northwest of shore. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Nail in blaze in cedar fence post, 2.45 meters (8.04 feet), 4° 17′; chimney of house, ¼ mile, 33° 16′; nail in blaze in 10-inch mulberry tree, 4.85 meters (15.91 feet), 148° 04′; right chimney of Greenwell house, ½ mile, 214° 05′; near peak of roof on Stones Wharf, ½ mile, 215° 59′; near corner of chimney of house, ½ mile, 256° 11′; near corner of chimney of house, ½ mile, 280° 26′; nail in blaze in 8-inch persimmon tree, 2.42 meters, 284° 27′; near corner of chimney of old house, ½ mile, 290° 54′; left cedar tree on Cedar Point, ⅞ mile, 333° 05′; right chimney of house, ⅞ mile, 340° 13′; near peak of roof on Cobrums Wharf, ¾ mile, 346° 21′.

Turf (St. Marys County, C. C. Yates, 1908).—On the western shore of upper St. Clements Bay, on a point about ⅜ mile west of Stones Wharf, in a cultivated field, about 2 feet above high water, 26 yards south-southwest of shore, 27 yards northwest of shore, 32 yards west of shore, 90 yards north of a point, 300 yards east-northeast of a house, and 200 yards east-northeast of a wire fence. Station mark is center of standard cement monument of Mary-

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land Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Near peak of roof of barn, 300 yards, 52° 56′; right chimney of house, 300 yards, 73° 35′; right chimney of house behind trees, ¼ mile, 127° 00′; left chimney of house on hill, 2 miles, 152° 39′; right chimney of house, 1 mile, 190° 40′; right chimney of Greenwell's house, ½ mile, 253° 26′; right peak of roof on Stones Wharf, ⅜ mile, 264° 05′; left chimney of house, 1¼ miles, 347° 07′; left peak of roof on Cobrums Wharf, ⅞ mile, 353° 46′; left tree on point, 75 yards, 355° 51′.

Stones (St. Marys County, C. C. Yates, 1908).—On the eastern shore of upper St. Clement Bay, near Stones Wharf, about ⅝ mile north-northwest of Guest Point, on a point about 54 yards west-northwest of northern end of large wharf house, 5 yards northeast of extreme end of point, 5 yards southeast of shore, 30 yards south of a board fence, and 65 yards south-southwest of foot of a hill. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Left peak of roof on Cobrums Wharf, 1 mile, 10° 00′; front gable of house, 1⅛ miles, 13° 09′; right corner of right chimney of house, ½ mile, 77° 46′; right corner of large chimney of house on hill, 1⅜ miles, 113° 33′; middle of post at left corner of board fence, 28 yards, 168° 49′; right corner of right one of two chimneys of Greenwell house, ⅛ mile, 219° 30′; peak of north gable of roof of large house on Stones Wharf, 54 yards, 278° 52′; peak of south gable of roof of large house on Stones Wharf, 50 yards, 298° 27′; left chimney of house, 1⅝ miles, 343° 28′; left chimney of house, 1¼ miles, 359° 21′.

Newtown Neck Catholic Church cross (St. Marys County, C. C. Yates, 1908).—On Newtown Neck, about halfway between Bretons Bay and St. Clement Bay, and 2 miles north-northeast of Heron Island Sound. Station is center of cross on Catholic Church situated on main road.

BRETONS BAY

Kaywood (St. Marys County, C. C. Yates, 1908).—On the northern shore of Heron Island Sound, on Kaywood Point, in a clear field about 8 feet above high water, 4 yards west-northwest of edge of bank, 22 yards northeast of edge of bank, 23 yards north-northeast of extreme point of bank, and 75 yards south-southwest of large gum tree at edge of woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Chimney on near end of house, ⅜ mile, 92° 18′; chimney of cabin, ⅜ mile, 125° 28′; nail in blaze in gum tree, 72 yards, 203° 51′; right chimney of large house on hill, 5 miles, 236° 15′; near peak of roof of house, 5 miles, 236° 52′; chimney of small house, 2½ miles, 275° 53′.

Cedoak (St. Marys County, C. C. Yates, 1908).—On the eastern shore of Bretons Bay, about ⅛ mile north of Higgins Point, and ⅞ mile east of Kaywood Point, about 8 feet above high water, 2 yards east of edge of bank, 11 yards north-northwest of edge of bank at cedar woods, 12 yards west-southwest of an oak tree, 30 yards south-southeast of small clump of cedar trees on point, and 40 yards south of edge of clearing. Station mark is nail in cedar stub projecting about 1 inch above surface of ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 21.91 meters (71.9 feet) from station in azimuth 256° 41′. Distances and azimuths from the station of other points of reference are as follows: Left chimney of Colton's Hotel, 3½ miles, 76° 03′; chimney of house beyond edge of woods, 1⅜ miles, 87° 37′; chimney on middle of house, ⅞ mile, 113° 02′; between two chimneys on right of priest's house, 1⅝ miles, 153° 33′; left peak of roof of railway building, 1⅞ miles, 170° 34′; nail in blaze in 13-inch pine tree, 28.08 meters (92.1 feet), 205° 51′; nail in blaze in 14-inch oak tree, 10.22 meters (33.5 feet), 238° 19′; nail in blaze in 10-inch cedar tree, 16.19 meters (53.1 feet), 281° 29′; left tree on Higgins Point, ⅛ mile, 349° 44′.

Newtown (St. Marys County, C. C. Yates, 1908).—On the western shore of Bretons Bay, about ½ mile north of Kaywood Point, and ⅞ mile northwest of Higgins Point, about 12 feet above high water, surrounded by a fence, 9 yards west-northwest of edge of bank, 9 yards southwest of corner of fence, 10 yards north-northeast of corner of fence, 13 yards east of corner of fence, 14 yards south-southeast of corner of fence, 30 yards south-southwest of several trees, 60 yards southwest of a ditch, 75 yards south-southeast of a pond, and

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85 yards southwest of a point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station of various points of reference are as follows: Main chimney of house, 200 yards, 59° 40′; nail in blaze in 3-inch cedar tree, 12.22 meters (40.1 feet), 147° 09′; chimney of house, 1½ miles, 186° 33′; nail in blaze in twin persimmon tree (8 inches diameter), 29.56 meters (97.0 feet), 212° 24′; nail in blaze in 12-inch sugarberry tree, 24.89 meters (81.7 feet), 228° 47′; chimney outside of building at Abells Wharf, 3¼ miles, 243° 20′; large chimney of house, 3¼ miles, 245° 59′; water tank, 3¼ miles, 246° 18′.

Grove (St. Marys County, C. C. Yates, 1908).—On the eastern shore of Bretons Bay, about ½ mile north of Higgins Point, and ⅞ mile northeast of Kaywood Point, on sanded grassy land, in a grove of trees, about 8 feet above high water, 3 yards east of edge of bank, 5 yards south of edge of bank, 23 yards north by east of a large oak tree, and 30 yards south-southwest of a high sand pile. Station mark is nail in stub with top about flush with the ground. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is near twin oak trees, and is 21.48 meters (70.5 feet) from the station in azimuth 325° 28′. Distances and azimuths to other points of reference are as follows: Four-foot oak tree, 23 yards, 20° 33′; right tangent of chimney of priest's house, 1¼ miles, 148° 18′; 10-inch tree, 5 yards, 161° 33′; nail in blaze in 10-inch persimmon tree, 8.27 meters (27.13 feet), 258° 25′; nail in blaze in forked 12-inch oak tree, 12.31 meters (40.4 feet), 298° 10′; nail in blaze in right one of 12-inch twin oak trees, 22.50 meters (73.8 feet), 327° 00′.

Sand bar (St. Marys County, C. C. Yates, 1908).—On the western shore of Bretons Bay, on Newtown Neck, about 1 mile north of Kaywood Point, and 1¼ miles south of Combs Creek, on a sand spit between bay and small pond, about 1 foot above high water, 6 yards north of point of trees, 75 yards west by north of a sand bar visible at low water, and 85 yards south of another point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Nail in blaze in 3-inch holly tree, 4.62 meters (15.16 feet), 4° 56′; nail in blaze in 3-inch holly tree, 7.08 meters (23.23 feet), 22° 52′; nail in blaze in 7-inch pine tree, 5.96 meters (19.55 feet), 44° 51′; nail in top of 1½-inch stub, 12.08 meters (39.6 feet), 166° 17′; left corner of left chimney of priest's house, ⅝ mile, 167° 42′; flagstaff of Compton post office, 1 mile, 190° 06′; chimney of house with several gables, 1 mile, 193° 22′; left peak of tin roof, 1 mile, 213° 48′; chimney of house, 1¼ miles, 227° 33′; right chimney of house near Abells Wharf, 3 miles, 253° 41′; water tank at Abells Wharf, 3 miles, 254° 01′.

Dune (St. Marys County, C. C. Yates, 1908).—On the eastern shore of Bretons Bay, about ⅝ mile north of Higgins Point, and 1⅛ miles northwest of Kaywood Point, on a sanded grassy knoll, about 4 feet above high water, 4 yards southeast of edge of bank, 8 yards northwest of foot of sand slope, 20 yards northeast of first tree in scant woods, 25 yards northwest of edge of woods, 55 yards west-southwest of a large pine tree at point of woods, and 75 yards east-northeast of a mud hole. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from station to various points of reference are as follows: Nail in blaze in 11-inch oak tree, 16.78 meters (55.0 feet), 35° 52′; chimney of house, ¾ mile, 82° 25′; right tangent of right chimney of priest's house, 1¼ miles, 144° 01′; right peak of roof of railway building, 1½ miles, 167° 45′; right peak of roof between two chimneys of house, 1⅜ miles, 180° 42′; nail in blaze in 12-inch pine tree, 47.76 meters (156.7 feet), 243° 40′; nail in blaze in 6-inch oak tree, 19.77 meters (64.9 feet), 299° 38′.

Fence (St. Marys County, C. C. Yates, 1908).—On the southeastern shore of Bretons Bay, opposite Compton, about 1⅝ miles northeast of Kaywood Point, about 12 feet above high water, 3 feet southeast of edge of bank, 70 yards southwest of locust trees, and in front of cedar and sassafras trees. Station mark is nail in stub. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. It is 12.87 meters (42.2 feet) from station in azimuth 334° 19′. Distances and azimuths from the station to other points of reference are as follows: Nail in blaze in 2-inch cedar tree, 18.10 meters (59.4 feet), 11° 21′; chimney on middle of house, 1 mile, 73° 25′; near end of near chimney of priest's house, 1¼ miles, 131° 27′; near corner of large outside chimney of house, 1⅜ miles, 144° 54′; near peak of roof of house, 1¼

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miles, 171° 26′; chimney of house, 1½ miles, 187° 17′; largest chimney of Duke house, 1¾ miles, 210° 45′; nail in blaze in 16-inch apple tree, 59.59 meters (195.5 feet), 283° 29′; large chimney of building among trees, ⅛ mile, 325° 01′; nail in blaze in 4-inch persimmon tree, 19.97 meters (65.5 feet), 334° 06′.

Compton (St. Marys County, C. C. Yates, 1908).—On the western shore of Bretons Bay, on Newtown Neck, about ⅜ mile south-southwest of entrance to Combs Creek, and 1½ miles north of Kaywood Point, in corner of field adjoining large brick house, about 20 feet above high water, 75 yards west of shore, 75 yards south of shore, 2 yards south of fence, 3 yards west of another fence, and 400 yards east-northeast of a church and house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Near peak of tin roof of priest's house, 400 yards, 77° 54′; nail in blaze in 8-inch cedar fence post, 5.03 meters (16.5 feet), 136° 43′; flagstaff of Compton post office, ½ mile, 201° 31′; chimney of store, ½ mile, 202° 04′; nail in blaze in 4-inch cedar fence post, 2.01 meters (6.59 feet), 224° 11′; chimney on roof of house, ⅞ mile, 253° 46′; cupola on stable, 1⅛ miles, 313° 07′; nail in blaze in 4-inch cedar tree, 9.59 meters (31.46 feet), 339° 24′.

Cherry Cove (St. Marys County, C. C. Yates, 1908).—On the northwestern shore of Bretons Bay, about 1¾ miles north-northeast of Higgins Point and ⅛ mile west-southwest of entrance to Cherry Cove, in a field about 15 feet above high water, 12 yards north of edge of bank, 17 yards west-southwest of near corner of 2-story house, 23 yards west-northwest of a point, 25 yards west of edge of bank, and 27 yards southwest by south of a wire fence around a garden. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Peak of tin roof of priest's house, 1⅛ miles, 74° 26′; near peak of roof of large house, ⅜ mile, 102° 33′; tangent of point of bank on opposite side of Cherry Cove, ⅜ mile, 193° 39′; left chimney of house, 1⅛ miles, 205° 27′; nail in blaze in 3-inch corner fence post, 26.46 meters (86.8 feet), 219° 04′; left corner of house, 19.95 meters (65.5 feet), 240° 01′; near corner of house, 17.14 meters (56.2 feet), 251° 39′; right corner of house, 24.94 meters (81.8 feet), 261° 52′; left corner of large house near Abells Wharf, 2 miles, 269° 48′; water tank, 2 miles, 270° 25′; chimney of large house, 2 miles, 302° 06′; chimney of large house, 1⅜ miles, 314° 26′; cupola on building in woods, 1¼ miles, 350° 29′.

Protestant (St. Marys County, C. C. Yates, 1908).—On the southeastern shore of Bretons Bay, on Protestant Point, opposite Cherry Cove, and about 1⅞ miles east-northeast of Kaywood Point, on a sand bar about 2 feet above high water, 26 yards north of shore, 35 yards east by south of a cedar tree, and 35 yards northwest of entrance to a creek. Station mark is nail in stub with top about 12 inches above surface of sand. Reference mark is center of standard cement monument of Maryland Shell Fish Survey, note 16; it is 29.12 meters (95.5 feet) from station in azimuth 303° 31′. Distances and azimuths to other points of reference are as follows: Nail in blaze in 20-inch oak tree, 23.34 meters (76.6 feet), 2° 12′; chimney on middle of roof of house, 1 mile, 134° 38′; chimney of house, ⅞ mile, 158° 56′; left chimney of house, 1¾ miles, 185° 50′; peak of front gable of Duke house, 1½ miles, 203° 14′; chimney of Adams house, 2¼ miles, 229° 38′; chimney outside of house at Abells Wharf, 1¾ miles, 240° 43′; water tank, 1¾ miles, 246° 04′; left chimney of house, ¾ mile, 285° 05′; nail in blaze in 7-inch cedar tree, 39.51 meters (129.6 feet), 304° 00′; nail in blaze in 7-inch oak tree, 28.84 meters (94.6 feet), 331° 54′.

Paw (St. Marys County, C. C. Yates, 1908).—On northwestern shore of Bretons Bay, on Paw Paw Point, about 1 mile west-southwest of Lovers Point, and ¾ mile east of Cherry Cove, on marshland, near two cedar trees, about 1 foot above high water, 7 yards southeast of shore, 18 yards west by north of extreme end of point, 28 yards northeast of another point, 50 yards south-southwest of several cedar trees, and 75 yards southeast of a cultivated field. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Right corner of right chimney of priest's house, 1⅞ miles, 83° 46′; nail in blaze in 7-inch cedar tree, 6.13 meters (20.11 feet), 157° 34′; nail in blaze in water bush (3 inches in diameter), 8.79 meters (28.84

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feet), 184° 51′; nail in blaze in 6-inch cedar tree, 4.77 meters (15.65 feet), 200° 42′; left corner of left chimney of house, 2⅞ miles, 242° 04′; near corner of chimney at Abells Wharf, 1 mile, 259° 42′; right chimney of house, 1⅛ miles, 266° 10′; water tank, 1⅛ miles, 267° 02′; left peak of roof of large house, 1 mile, 290° 32′; left chimney of house, ⅞ mile, 354° 00′.

What (St. Marys County, C. C. Yates, 1908).—On the southwestern shore of Bretons Bay, on first prominent point southwest of Lovers Point, and ¾ mile south-southeast of Paw Paw Point, about 20 feet above high water, 9 yards south of edge of bank, 4 yards east of a fence, 85 yards northeast of a fence at creek, 300 yards northeast of a large barn on other side of creek, and east to northeast of trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney of old house, 250 yards, 3° 14′; left peak of large barn, 300 yards, 22° 05′; right peak of roof of house with two chimneys, 300 yards, 53° 33′; near peak of roof of priest's house, 2¼ miles, 103° 25′; near peak of roof between two chimneys of house, 1⅝ miles, 121° 21′; peak of front gable of Duke house, 1⅜ miles, 171° 48′; nail in blaze in 4-inch sassafras tree, 8.04 meters (26.38 feet), 215° 44′; nail in blaze in 7-inch persimmon tree, 7.47 meters (24.51 feet), 239° 08′; nail in blaze in 6-inch persimmon tree, 7.58 meters (24.87 feet), 262° 10′.

Trees (St. Marys County, C. C. Yates, 1908).—On the western shore of Bretons Bay, about ⅜ mile west of Lovers Point, and ⅝ mile northeast of Paw Paw Point, at edge of cultivated field, about 5 feet above high water, 15 yards west of shore, 3 yards back from edge of a bank 3 feet high, and 200 yards from pine woods. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Nail in blaze in 10-inch cherry tree, 30° 21′; west gable of 2-story house, ½ mile, 234° 31′; nail in blaze in 4-inch cedar tree, 266° 34′; chimney of 2-story house, ¾ mile, 281° 15′; nail in blaze in cedar stump (3 inches diameter), 294° 20′; middle chimney on large 2-story house, ⅝ mile, 297° 39′.

Lovers (St. Marys County, C. C. Yates, 1908).—On the southeastern shore of Bretons Bay, about ⅛ mile southeast of Lovers Point, and 1 mile east of Paw Paw Point, about 4 feet above high water, 15 yards south of shore, 6 yards north of a road leading to a wharf, 50 yards north-northwest of a 1½-story house, and 100 yards east of small store with an adjoining dwelling. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Chimney of store, 100 yards, 107° 29′; north gable of wharf house, 80 yards, 129° 44′; near chimney of 2-story house, 1 mile, 190° 00′; chimney of 2-story house, ½ mile, 226° 44′; chimney of 2-story house, ¼ mile, 256° 25′; chimney of 1½-story house, ¼ mile, 274° 59′; chimney of 1½-story house, 51 yards, 301° 03′; middle chimney of large 2-story house, ⅛ mile, 324° 43′; north gable of large barn, ⅛ mile, 345° 12′.

Hollow (St. Marys County, C. C. Yates, 1908).—On the western shore of Bretons Bay, about ½ mile northwest of Lovers Point, and ⅞ mile northeast of Paw Paw Point, at side of a ravine, about 2 feet above high water, 4 yards northwest of shore, 5 yards southeast of foot of bank, and northeast of cedar trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Nail in blaze in 7-inch cedar tree, 15.41 meters (50.6 feet), 51° 05′; nail in blaze in 8-inch cedar tree, 19.94 meters (65.4 feet), 91° 35′; nail in blaze in 18-inch white-oak stump, 4.87 meters (15.98 feet), 183° 22′; right chimney of Adams house, ½ mile, 253° 03′; chimney on middle of double house, ¾ mile, 297° 34′; right chimney of house, ¾ mile, 313° 31′; water tank, ¾ mile, 314° 06′; chimney of house, 1¼ miles, 329° 36′.

Healey (St. Marys County, C. C. Yates, 1908).—On the northwestern shore of Bretons Bay, on point opposite Abells Wharf, and about ⅜ mile north-northeast of Lovers Point, about 12 feet above high water, 6 yards east of edge of bank, 6 yards north of edge of bank, 35 yards west of point where rail fence and water meet, 65 yards southwest of corner of fence, 200 yards southeast of cedar trees, and 250 yards south-southeast of pine trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Chimney of large house near wharf, ½ mile, 7° 37′; near chim-

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ney of house, 1⅞ miles, 31° 39′; nail in blaze in 4-inch cedar tree, 6.02 meters (19.75 feet), 64° 44′; nail in blaze in 4-inch twisted cedar tree, 10.33 meters (33.9 feet), 105° 17′; nail in blaze in 8-inch persimmon tree, 16.41 meters (53.8 feet), 129° 23′; chimney of house on hill, 400 yards, 199° 27′; near chimney of house on knoll, 150 yards, 234° 01′; left chimney of house on hill, 2 miles, 269° 06′; chimney on right end of house, ½ mile, 305° 11′; chimney of double house, ½ mile, 334° 36′; windmill, ⅝ mile, 352° 56′; water tank, ⅝ mile, 354° 09′; right chimney of house, ⅝ mile, 354° 32′.

Beau (St. Marys County, C. C. Yates, 1908).—On the southeastern shore of Bretons Bay, on first prominent point northeast of Lovers Point, about ⅜ mile west of the entrance to Mouldy Creek, about 1 foot above high water, 9 yards south of shore, 10 yards east of shore, 10 yards northwest of a small shanty, and 11 yards south-southeast of extreme end of point. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Chimney on middle of house, ½ mile, 30° 14′; chimney on south end of house at wharf, ½ mile, 49° 07′; chimney on Adams house, ½ mile, 141° 20′; chimney on middle of house on hill, ¾ mile, 158° 54′; peak of near gable of Duke house, ¾ mile, 193° 00′; near peak of gable of house, 1⅞ miles, 214° 23′; left chimney of house, ¾ mile, 257° 57′; near peak of gable of house, ⅝ mile, 267° 42′; nail in blaze in double 10-inch cedar tree, 5.24 meters (17.19 feet), 285° 52′; nail in blaze in 8-inch cedar tree, 6.20 meters (20.34 feet), 313° 35′; left corner of shanty, 8.78 meters (28.80 feet), 321° 58′; nail in blaze in 10-inch cedar tree, 5.04 meters (16.54 feet), 344° 21′; right corner of shanty, 9.89 meters (32.45 feet), 355° 38′.

Belle (St. Marys County, C. C. Yates, 1908).—On the northwestern shore of upper Bretons Bay, about ½ mile north-northeast of Lovers Point, and ⅝ mile west-northwest of entrance to Mouldy Creek, in a cultivated field, about 3 feet above high water, 9 yards northwest of shore, 50 yards south by west of a clump of trees, and 65 yards southeast by east of and almost in line with northeast side of house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Right chimney of house, ⅝ mile, 6° 37′; chimney of large house next to wharf, ⅝ mile, 20° 00′; left of left chimney of Adams house, 65 yards, 127° 15′; chimney of house, ½ mile, 220° 11′; left corner of left chimney of house, 1 mile, 247° 33′; right chimney of house on hill, 1½ miles, 271° 46′; near peak of roof of house, ¾ mile, 285° 38′; chimney on middle of double house, ½ mile, 350° 25′.

Noname (St. Marys County, C. C. Yates, 1908).—On the northwestern shore of upper Bretons Bay, on point about ½ mile northwest of entrance to Mouldy Creek, and 1 mile northeast of Lovers Point, about 3 feet above high water, near six old piles, 13 yards northwest of shore, 13 yards southwest of shore, 17 yards northeast of shore, and 80 yards south of a fringe of pine trees. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Chimney of two-story house, ½ mile, 15° 24′; nail in blaze in 6-inch gum tree, 9.72 meters (31.89 feet), 52° 17′; west chimney of house, ½ mile, 58° 14′; nail in blaze in 3-inch locust tree, 2.63 meters (8.63 feet), 109° 37′; west gable of old farmhouse, ½ mile, 257° 12′; nail in blaze in old pile, 12.70 meters (41.7 feet), 294° 00′; west gable of two-story house, ⅝ mile, 317° 49′.

Mouldy (St. Marys County, C. C. Yates, 1908).—On the southeastern shore of Bretons Bay, on a point about 100 yards west of entrance to Mouldy Creek, about 6 yards south of edge of 25-foot bluff, 17 yards from high water, 25 yards north of a cultivated field, 50 yards west of a clump of cedar trees, and 100 yards west of entrance to Mouldy Creek. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Top of windmill, 1½ miles, 53° 26′; south chimney of 2-story house, ¾ mile, 116° 17′ chimney of small 2-story house, ¾ mile, 126° 00′; south gable of Duke house, 1 mile, 173° 20′; cross on Catholic Church, 2¼ miles, 183° 02′; cross on Catholic Academy, 2¼ miles, 183° 17′; south gable of Foxwell house, 1¼ miles, 187° 55′; south chimney of 2-story house, 1⅜ miles, 191° 43′; nail in blaze in 18-inch ash tree, 63.32 meters (207.7 feet), 201° 25′; southwest chimney of 1-story farmhouse, 1 mile, 215° 44′; nail in blaze in

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24-inch oak tree, 52.09 meters (170.9 feet), 257° 40′; center of windmill, ⅝ mile, 267° 44′; nail in blaze in 14-inch ash tree, 54.35 meters (178.3 feet), 273° 11′; west chimney of large farmhouse, ½ mile, 340° 16′.

Pine (St. Marys County, C. C. Yates, 1908).—On the eastern shore of upper Bretons Bay, about ¼ mile north-northeast of entrance to Mouldy Creek, back of a tree-fringed shore, in a field, about 10 feet above high water, 7 yards east of edge of bluff, and 6 yards east of a rail fence. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Nail in blaze in 5-inch pine tree, 5.72 meters (18.77 feet), 22° 56′; south gable of Duke house, ⅞ mile, 156° 27′; nail in blaze in 4-inch cedar tree, 9.03 meters (29.63 feet), 236° 52′; nail in blaze in 4-inch persimmon tree, 17.43 meters (57.2 feet), 257° 59′.

Cedar (St. Marys County, C. C. Yates, 1908).—On the eastern shore of upper Bretons Bay, on a marsh point, the first prominent point north of entrance to Mouldy Creek, about 2 feet above high water, 15 yards east of shore, 50 yards north of cultivated field, bounded by rail fence and small cedar trees, and directly in front of a dense growth of small cedar trees and myrtle bushes. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Nail in blaze in 6-inch cedar tree, 31.91 meters (104.7 feet), 14° 01′; nail in blaze in 8-inch cedar tree, 21.30 meters (69.9 feet), 44° 57′; north chimney of small house, ⅜ mile, 119° 19′; south gable of Duke house, ½ mile, 149° 40′; southwest chimney of Key house, 1¼ miles, 169° 22′; cross on Catholic Academy, 1¾ miles, 178° 22′; nail in blaze in 3-inch cedar tree, 5.81 meters, (19.06 feet), 244° 28′; nail in blaze in 3-inch cedar tree, 2.47 meters (8.10 feet), 263° 17′; nail in blaze in 4-inch cedar tree, 3.45 meters (11.32 feet), 316° 12′.

Buzzard (St. Marys County, C. C. Yates, 1908).—On the western shore of upper Bretons Bay, on a prominent point in bend of bay, about ½ mile southeast of Leonardtown Wharf, and 1 mile north of entrance to Mouldy Creek, about 1 foot above high water, 7 yards northwest of shore, 10 yards southeast of shore, 80 yards west-northwest of a point, and 10 yards east of foot of slope. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: South gable of wharf house, ⅝ mile, 141° 26′; cupola on Catholic Academy, 1 mile, 181° 01′; west chimney of Foxwell house, ¼ mile, 193° 54′; south chimney of 2-story house, ½ mile, 203° 46′; west chimney of 2-story house, ¾ mile, 231° 30′; southwest chimney of 1-story house, ½ mile, 311° 20′.

Corn (St. Marys County, C. C. Yates, 1908).—On the eastern shore of upper Bretons Bay, on second prominent point north of Mouldy Creek, about ⅞ mile southeast of Leonardtown Wharf, and ½ mile northeast of entrance to Mouldy Creek. Station is inside of a rail fence at edge of a cultivated field, about 3 feet above high water, 10 yards from shore, and ¼ mile northwest of 1½-story farm house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follows: Chimney of small 2-story house, ½ mile, 82° 27′; east gable of Duke house, ½ mile, 121° 17′; south gable of wharf house, ⅞ mile, 140° 27′; southwest chimney of Key house, ⅞ mile, 158° 20′; south gable of Foxwell house, ½ mile, 166° 15′; cross on Catholic academy, 1½ miles, 172° 37′; south gable of house on hill, ¾ mile, 204° 45′; smokestack of sawmill, 1 mile, 225° 26′; west chimney of small 2-story house, ¼ mile, 248° 12′; near chimney of old farmhouse, ¼ mile, 319° 47′.

Foxwell (St. Marys County, C. C. Yates, 1908).—On northeastern shore of upper Bretons Bay, about ½ mile east-southeast of Leonardtown Wharf, and 1¼ miles north of entrance to Mouldy Creek, about 6 feet above high water, 12 yards northwest of shore, 2 yards from a 3-foot bank, 12 yards south of an orchard, and 25 yards east of a house. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths from the station to various points of reference are as follow: East gable of Duke house, ½ mile, 49° 10′; nail in blaze in paulownia stump, 8.50 meters (27.89 feet), 64° 42′; east gable of Foxwell house, 25 yards, 84° 06′; southeast chimney of Key house, ½ mile, 145° 48′; chimney of small house, ¼ mile, 174° 28′; south chimney of large 2-story house, ½ mile, 212° 25′; nail in blaze in 5-inch paulownia tree, 4.42 meters (14.50 feet), 254° 59′;

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spike in old wharf pile about 6 inches above ground, 15.00 meters (49.2 feet), 290° 30′.

Valley (St. Marys County, C. C. Yates, 1908).—On the northeastern shore of bend in upper Bretons Bay, about ¾ mile east-southeast of Leonardtown Wharf and 1 mile north-northeast of entrance to Mouldy Creek, on a narrow strip of marsh, about 1 foot above highwater, 15 yards east of high water, and 100 yards south of a cultivated field. Station mark is center of standard cement monument of Maryland Shell Fish Survey, note 16. Distances and azimuths to various points of reference are as follows: Northwest chimney of old farmhouse, ½ mile, 3° 40′; east gable of Duke house, ¾ mile, 78° 04′; east chimney of Foxwell house, ⅜ mile, 112° 59′; south chimney of large 2-story house, ⅜ mile, 144° 29′; south gable of house on hill, ¼ mile, 199° 10′; smokestack on sawmill, ¾ mile, 238° 37′.

POTOMAC RIVER, LOWER CEDAR POINT TO DISTRICT OF COLUMBIA

Persimmon 2 (King George County, Va., J. E. McGrath, 1901; 1902).—On the western shore of Potomac River, on Persimmon Point, near its end, and on a grassy flat about 18 inches above high water. A few cedars grow inside the signal, between it and a piece of marsh. From the station to the edge of the grassy flat on which it stands is 12½ meters on line to the edge of trees on Lower Cedar Point; 16½ meters in direction of extreme end of the outside point; and 12½ meters in direction toward left-hand edge of Popes Creek Valley. Station was marked by a 4-inch tile pipe, sunk 3 feet in the sand, large end up and flush with surface. It was embedded in cement. Near the station is a large old cedar, from whose root six stems are growing upward; on the largest stem, about 16 inches diameter, a blaze was made just above an old horizontal hack. In this blaze three nails were driven in the form of a triangle, 27.49 meters (90.2 feet) from the station in azimuth 122° 19.4′.

Bluff 2 (Charles County, J. E. McGrath, 1901; 1902).—On the eastern shore of Potomac River, about 2¼ miles above the mouth of Popes Creek, on the southern slope of the first hill below the mouth of Port Tobacco Creek showing bare front to river. Station was almost on line with red buoy between it and outer end of Persimmon Point. Station is about 10 feet lower than summit of hill. The station is 3.7 feet back from the nearest edge of the bank, which has a precipitous face. It was marked by a piece of 4-inch tile pipe, 3 feet long, set in cement, large end up, its top flush with the surface of the ground. For reference mark a 2-inch drain tile, 15 inches long, was set in cement 12.22 meters (40.1 feet) from the station in azimuth 211° 16.8′. A 20-inch chestnut tree was blazed at a point about 2½ feet above the ground; it is 26.47 meters (86.8 feet) from station in azimuth 234° 36.7′, and 15.99 meters (52.5 feet) from the tile reference mark.

Windmill 2 (Charles County, J. E. McGrath, 1901; 1902).—On the north side of the Potomac River, on the western side of entrance to Port Tobacco River, on south side of Windmill Point, about 129 meters from tip of point and 12 meters inside the river edge of grass line. Station is on little sandy ridge which bounds the large marsh on the point. Between the station and the far side of the point is a clump of about 12 young persimmon trees, the highest about 12 feet in height. The nearest persimmon sapling (2 inches diameter and 7 feet high) was blazed at a point about 2 feet above its roots; this blaze is 24.38 meters (80.0 feet) from the station in azimuth 223° 35.3′. St. Thomas Church shows just to the left of the higher trees of this group. Station marked by a tile pipe, 3 feet long, embedded in cement, with its top flush with the surface of the ground.

Mathias 2 (King George County, Va., J. E. McGrath, 1901; 1902).—On the southern shore of the Potomac River, on the western side of Mathias Point, in an open field on the first high bluff up river from Mathias Wharf and about 12.3 meters inside of top edge of bank. This bluff here is about 60 feet high. On the same plateau as the station a large, yellow, frame dwelling house has just been completed by a Mr. Grimes, keeper of the Mathias Point Light. The bluff is caving away and its front is quite precipitous near the signal on line to Riverside Landing, and the bluff line is open and clear of trees. Above and below this break the bluff has a gentler slope and is well covered with trees. The station is marked by a 4-inch tile pipe, 3 feet long, embedded in cement, large end up, and top even with surface of ground. Reference mark is the

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stub of a tree which was cut in opening line; it is held to the bank by three roots and is really outside the bluff line. A nail near top of blaze on this stub is 18.20 meters (59.7 feet) from station in azimuth 73° 58.5′. Another reference mark was made on a young chestnut oak (water oak), which springs from an old decayed stump. The blaze is about 2½ feet above where the stem emerges from the old stump. A nail driven in the blaze is 15.51 meters (50.9 feet) from the station in azimuth 159° 26.5′.

Upper Cedar 2 (Charles County, J. E. McGrath, 1901; 1904).—On the northern side of Potomac River, on Upper Cedar Point, and near its outer end. There is a low flat extending out from a small bluff on the end of the point, and in the flat is a marsh. Between the marsh and the river is a small sand ridge, covered with grass, and the station is on the section of this sand ridge which faces upriver. It is 3 feet inside grass line and 42 feet from grass point. The station mark is a 4-inch tile pipe, 3 feet long, embedded in cement. In 1902 half of this pipe extended above the surface of the ground; stones were then piled around it till even with its top. Near west end of marsh is a cedar with two trunks growing from one root; in the trunk nearest the river a blaze was made about where the trunk begins to grow perpendicularly. The blaze is 28.03 meters (92.0 feet), from station in azimuth 104° 34.2′.

Railroad (Charles County, J. E. McGrath, 1901; 1902).—On the eastern side of the Potomac River, near to and a little south of the summit of the hill which bounds Popes Creek Valley on the north, in an open field covered with a pretty thick deposit of oyster shells. At the Pope Creek side of the hill is an old lime kiln, now abandoned, where lime was for many years burned from the shells of this hill. Just below the top of the bank, in the direction of Machodoc Point, is a walnut tree about 9 inches in diameter at point blazed; the blaze is 19.94 meters (65.4 feet) from station in azimuth 10° 46.7′. West of signal and below top of bank is a locust tree 4 inches in diameter at blaze, which is 9.86 meters (32.35 feet) from station in azimuth 66° 40.2′. The station, which is 22 feet inside top edge of bank, was marked by a 4-inch tile pipe, 3 feet long, embedded in cement, its top flush with surface of ground. Signal pole was set in cement in top of pipe.

Metomkin 2 (King George County, Va., J. E. McGrath, 1901; 1904).—On the southern side of the Potomac River, on Metomkin Point, about 1 foot above high water, and almost at junction of sand and grass. A marshy pond is about 250 feet south of the station, and just east of it is a two-room frame shack. The station was marked by a piece of drain tile, 3 feet long, embedded in cement, large end up, its top flush with the surface of the ground. Various reference marks were established as follows: A cedar post on east side of doorway facing Metomkin Beacon and inside of house was marked by 3 nails forming a triangle with 1-inch sides; it is 4 feet from the ground and is 9.39 meters (31.81 feet) from station in azimuth 252° 42′. A cedar post at southwest corner of building was marked by three nails forming a triangle with 1-inch sides; this triangle is 4 feet from the ground and is 9.98 meters (32.74 feet) from the station in azimuth 275° 27′. A blaze was made on the smaller and nearer of two cedar trees—tree is about 6 inches in diameter at ground, and blaze is 2 feet above ground; it is 10.30 meters (33.8 feet) from the station in azimuth 312° 18′.

Adams 2 (Charles County, J. E. McGrath, 1901; 1904).—On the northern shore of Potomac River, about 1⅜ miles distant and on outside line of first point upriver from Riverside Landing and almost directly opposite Stuart Wharf. Station is about 12 feet inside of where grass ends and sand beach begins. About 500 feet west of the signal a water fence crosses the flat and extends into the river for about 6 panels beyond low-water mark. The station is marked by a section of 4-inch terra-cotta pipe, 3 feet long, set in cement, with large end up and top flush with surface of ground. Three reference marks—blazes on trees—were established as follows: On a walnut tree on the side of the hill; this tree divides into two trunks about 4 feet above the ground. The blaze is on the main trunk, and is 12.18 meters (40.0 feet) from the station in azimuth 148° 09′. A blazed cedar, 20 inches in diameter, is at foot of hill, inside the grass line, 9.26 meters (30.38 feet) from station in azimuth 186° 03′. A sycamore, about 2 feet in diameter at base, stands about 5 feet inside the junction line of grass and sand; it was trimmed of all branches to a height of 30 feet, and a blaze on it is 25.02 meters (82.1 feet) from station in azimuth 238° 46′.

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Stuart 2 (King George County, Va., J. E. McGrath, 1901; 1904).—On the southern shore of Potomac River, near Stuarts Point, in the grounds of Mrs. R. E. Stuart, near her residence, and on a small bluff close to the river bank. The station is about 7 feet inside the top edge of the bank, and is marked by a section of 4-inch sewer pipe, 3 feet long, set in cement, large end up and top even with surface of ground. A nail was driven in a walnut tree at a point about 3.8 feet above the ground. It is 5.43 meters (17.81 feet) from the station in azimuth 46° 03′. A nail was driven in the left hand of two cedar boles growing from one trunk; the nail is 2.4 feet above the ground and 15.256 meters (50.05 feet) from the station in azimuth 292° 18.3′.

Wheat 2 (King George County, Va., J. E. McGrath, 1901; 1903).—On the southern side of Potomac River, near the outside edge of the first point below and about ¾ mile east from Somerset Beach landing. At the middle of this point is a piece of marsh through which a small canal or drain runs; the station is about 18 feet north of where this canal changes from a direction normal to the beach to one parallel with it, which latter course it maintains until within a few feet of its mouth. The station is on the highest part of the beach outside of fence line and west of two small locusts which grow on the beach. The station was marked by a section of 4-inch tile pipe, 3 feet long, set in cement, large end up, and top even with surface of ground. For reference marks three of the fence posts were marked as follows: A triangle formed of three nails was made in a post in the fence running from east line of marsh along its river front to the drain; the top nail of the triangle is 8.42 meters (27.62 feet) from the station. A corner post where fence at right angles to beach meets fence along river front of marsh, was marked with three nails in form of triangle, just below top wire of fence; the top nail of triangle is 10.08 meters (33.1 feet) from the station. A nail was driven in the northeast side of a post in the short fence which is normal to the beach. The nail is 2.51 meters (8.23 feet) from the station.

Maryland 2 (Charles County, J. E. McGrath, 1901; 1924).—On the northern shore of Potomac River, on low outside end of Maryland Point, on sand ridge in back of clump of cedars near high-water line, about 186 feet above old fence perpendicular to high-water line, 11 feet in from high-water mark, and just below small creek that drains marsh. Station marked by section of 4-inch tile pipe, 3 feet long, set in cement, large end up, top even with surface of ground. Nail driven in blaze in 3-inch locust tree, 8 feet high, is 2.64 meters (8.66 feet) from station in azimuth 345° 52′. Nail in blaze in one of twin cedars (18 inches diameter) is about 1 foot above ground, and 15.95 meters (52.3 feet) from station in azimuth 247° 14′. 1924 reference mark is nail in blaze in 6-inch cedar on high-water line south of station. Blaze is 1.5 feet above ground, and 10.75 feet from station in azimuth 333° 26′.

Tanzy (King George County, Va., J. E. McGrath, 1901; 1903).—On the southwestern shore of Potomac River, in an open field, 15 feet back from the edge of a bluff just east of the mouth of Paspotansie Creek. The face of the bluff contains a great many shells. Just below the station is a small valley, to the shore end of which considerable cord wood is hauled for shipment. Mr. Smith, owner of the land on which the signal stands, lives on the plateau just below this small valley. The station was marked by a section of 4-inch tile pipe, 3 feet long, set in cement, large end up, and top even with surface of ground. In 1902 two witness marks were established as follows: A stake, 2½ inches square and extending 24 inches above the surface of the ground, is 6 meters from the station in range with station *Marlborough*. A similar stake, extending 14 inches above the surface of the ground, is 6.79 meters (22.28 feet) from the station in range with Maryland Point Light.

Marlborough (Stafford County, Va., J. E. McGrath, 1901; 1924).—On the western shore of Potomac River, on the north side of Potomac Creek, on the west side of Marlborough Point. Station is about 7.5 feet back from the edge of a 23-foot bluff. The plantation on which the station stands was once called "Windmill Plantation" because of an old stone mill, the remains of one of whose walls still exist. Near by the station is a small cabin, remarkable because of the size of its chimney which rises out of the center of the cabin. It once belonged to a large dwelling, and the cabin was built around it. The station was marked by a section of 3-inch tile pipe, 3 feet long, set in cement, large end up, its top even with the surface of the ground. One reference mark is a 2-inch tile pipe, 1 foot long, set in and filled with cement. A nail in the

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center of the top of this pipe is 4.285 meters (14.06 feet) from the station in azimuth 52° 59′. A nail in a blaze cut in a locust tree is 7.74 meters (25.39 feet) from the station in azimuth 144° 09′. The azimuth from the station to the old windmill is 3° 51′; and to the large chimney near by, 121° 26′. United States Engineer station marked by brass disk No. 103 set in concrete monument inside 4-inch pipe ½ foot above surface of ground, 9 feet in from T. Bk. and 278 feet from fence perpendicular to high-water line, is 172.60 feet from station in azimuth 133° 59′.

Thom (Charles County, J. E. McGrath, 1901; 1903).—On the northeastern shore of Potomac River, 12 feet outside a 25-foot bluff. At the upper end of the bluff, which is precipitous and light colored, is a small opening into the interior, in which is the lower part of an old chimney and back of this a small cabin. This opening may be known as Irvings Fishing Shore. The United States Engineers stone station mark No. 6½, is 4.70 meters (15.42 feet) from the triangulation station in azimuth 37° 10′. This stone is a large irregular boulder on which a cross is cut. Station marked by a 2-inch tile pipe, 1 foot long, set in cement, its top flush with the ground. A piece of pine, 1 inch square, was driven through the center of the pipe and into the ground, its top even with the top of the pipe.

Waller (Stafford County, Va., J. E. McGrath, 1901; 1924).—On the western shore of Potomac River, nearly opposite Smith Point, in an open field, and 20 feet from the edge of a 25-foot bluff, and several hundred feet below the residence of W. B. Lee at Widewater, Va. Under this bank and almost opposite the station is a windlass used in seine hauling, and close by the windlass is a small one-story cabin, half frame, half log. Along the edge of the top of the bank grew a fringe of cedars which were chopped down to clear the view from the station. Just below the station is a clump of five cedars. Station marked by a section of 3-inch tile pipe, 3 feet long, set in cement, large end up, and top even with surface of ground. For reference mark a nail was driven in a blaze in the stub of an old oak tree, which springs from a point about 4 feet below the top of the bank and is about 7 inches in diameter. It is 10.43 meters (34.2 feet) from the station in azimuth 226° 42′. A nail in a blaze in the stub of a sassafras tree, 5 inches in diameter and about 1.5 feet long, is 7.72 meters (25.33 feet) from the station in azimuth 271° 50′. This stub is at top of bank and leans outward. In 1924 a 10-inch white-oak tree on edge of bank was marked with nail in blaze, 2.5 feet above ground. It is 20.7 feet from station in azimuth 238° 17′.

Smith 2 (Charles County, J. E. McGrath, 1901; 1924).—On the eastern side of Potomac River, on the first bluff up the river from Clifton Beach Wharf and on the part nearest to Wades Bay. This bluff is almost entirely clear from trees and the station is about 7 feet inside the edge of bank. Marked by a 3-inch tile pipe, 3 feet long, embedded in cement, large end up, its top even with the surface of the ground. A nail in 2-inch tile pipe, 1 foot long, set in cement, its top even with the surface of the ground, is 4.64 meters (15.22 feet) from the station in azimuth 256° 02′. A nail was driven in a locust tree which stands at same elevation as station; it is 10.62 meters (34.8 feet) from station in azimuth 347° 04′.

Liverpool 2 (Charles County, J. E. McGrath, 1901; 1924).—On eastern side of Potomac River, about ¼ mile above Liverpool Wharf, almost in middle of first point north of the first cove, in Liverpool Point, north of the wharf. Station is near southernmost of a number of bowlders which are just outside of foot of bluff, and is about 10 feet back from high-water line. About 3 feet from the station at the foot of the clay slope is a triangular piece of gneiss, whose exposed sides are about 2 feet in length. Station marked by a piece of sewer pipe, 3 feet long, set in cement, top even with surface of ground. A tack in a blaze on a 2-inch locust tree is 2.20 meters (7.22 feet) (measured on slope) from the station in line with the gneiss bowlder. A stump about 6 feet high and 6 inches in diameter, its foot blackened by fire, was blazed and 4 tacks driven into the blaze close together; they are 4.04 meters (13.25 feet) (measured on slope) from the station.

Fishery (Stafford County, Va., J. E. McGrath, 1901; 1924).—On the western side of Potomac River, about ½ mile above the village of Widewater, just above the residence of Mrs. Waller, in front of her kitchen garden, about 10 feet inside the edge of a prominent bluff. In front of the station a number of large blocks of sandstone have become dislodged and are heaped up on the

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beach. The station is marked by a nail in a 4-inch tile pipe, 26 inches long, which is filled with and set in cement with the top flush with the ground. A nail in a blaze, about 2 feet above ground, on a cherry tree on the edge of the bank is 6.04 meters (19.82 feet) from the station. Another nail and blaze on a post (a tree trimmed to a height of 5 feet) in the fence which runs along the bank is 3.95 meters (12.96 feet) from the station.

Sandy 2 (Charles County, J. E. McGrath, 1901; 1904).—On the eastern side of Potomac River, about ½ mile above Sandy Point Light, on the beach outside the tree line, about 15 feet inside the ordinary high-water line and about 7 feet outside the edge of the bluff slope. From here one can see the next point about 1 mile up the river and still keep in view about three-fourths of the ruins of the old Sandy Point Wharf. About 160 feet below the station is the beginning of a small ravine or draw which gives access from the beach to the country back from the river. Station marked by a 4-inch tile pipe, 3 feet long, set in cement, its top about 6 inches above the surface of the ground. For reference marks trees were marked as follows: A nail in a blaze on a gum tree which is about 15 inches in diameter up to a point about 4 feet above the ground and in the fifth foot is constricted to a diameter of 6 inches, 3.52 meters (11.55 feet) (inclined distance) from the station; a tack in a blaze 1½ feet above ground on one of twin 1½-inch locust saplings springing from one root, 3.94 meters (12.93 feet) (inclined distance) from the station; a nail in a blaze on a small leaning water oak, 6.09 meters (19.98 feet) (inclined distance) from the station.

Quantico (Prince William County, Va., J. E. McGrath, 1901; 1904).—On the western side of Potomac River, in front of the town of Quantico, about in the center of the street from the railroad station to the old wharf, and about 25 feet inside the junction of the natural sand spit and the causeway of pebbles which was either a causeway to the old wharf or a foundation for it. The station is 6 feet from high-water mark on the north and 9 feet from high-water mark on the south. It was marked by a 4-inch tile pipe, 3 feet long, set in cement, its upper half surrounded by a mass of concrete conical in form. A nail in center of pipe marks center of station. For reference mark a 2-inch tile pipe 1 foot long was embedded in cement. A nail in top of this pipe is 12.83 meters (42.1 feet) from station in azimuth 96° 29′. The azimuth from the station to the highest pile in the outside face of the old Quantico Wharf is 290° 30′.

Fairoak 2 (Charles County, J. E. McGrath, 1901; 1904).—On the eastern side of Potomac River, directly across from Chopawamsic Island, on the second point above Sandy Point, about 6 feet back from top of bluff, in a cultivated field. An orchard is about 200 feet east of the station. The station was marked by a 4-inch tile pipe 2 feet long set in cement, with a nail in its center. Distances and azimuths to various reference marks are as follows: A nail in the top of a 4-inch tile pipe, 1 foot long, set in cement, 1 foot higher than the station, 10.35 meters (34.0 feet) (inclined distance), 4° 29′; a nail in a blaze on a 12-inch oak, the nearer and smaller of two which grow on the outside edge of the bluff, down river and about 4 feet higher than the station, 12.58 meters (41.3 feet) (inclined distance), 12° 28′; northeast chimney of Bang's Hotel in Quantico, 126° 12′; chimney of garbage works, Cherry Hill, 183° 01′.

Cockpit (Prince William County, Va., J. E. McGrath, 1901; 1904).—On the western side of Potomac River, on the extreme outside end of Cockpit Point, on the sand bank which separates the marsh from the river, about 2 feet above high water, 7 feet from the marsh in line to chimney of garbage reclamation works at Cherry Hill and 20 feet from high-water line along the opposite direction. At right angles to this line it is 20 feet to the high-water line. The station is marked by a 4-inch tile pipe, 3 feet long, set in cement, large end up, top even with surface of ground. A nail was set in center of top of pipe. In 1904 station mark was reported as broken off about 1 foot below surface of ground.

Matt (Charles County, J. E. McGrath, 1901; 1904).—On the eastern side of Potomac River, on point at south side of mouth of Mattawoman Creek, on what is known as the Garfield farm, now a part of the Indianhead property of the United States Government. On the Potomac side of the point are the remains of an old wharf, from which a road runs up a draw to the top of the hill. The station is south of this road, at about the average elevation of the

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top of the bluff, and 9 feet inside its edge, which is somewhat higher than the ground at the station. An old cedar stump (18 inches high), at edge of bluff abreast of the station, was marked by a nail, 2.70 meters (8.86 feet) from the station in azimuth 125° 16′. A red-oak sapling about 7 feet high and 2½ inches in diameter was marked by a blaze and nail, 5.51 meters (18.07 feet) from the station in azimuth 235° 29′. The station was marked in 1901 by a 4-inch tile pipe, 3 feet long, set in cement, with a nail in center of top. Later the Army Engineers laid a bed of cement around the mark and erected an iron instrument stand over it; the stand is embedded in the cement and covered by a triangular box. Several feet southeast of the station they erected an iron pipe with a horizontal arm for holding a flag.

Fairfax (Prince William County, Va., J. E. McGrath, 1901; 1902).—On the western side of Potomac River, on lower side of Freestone Point. Station marks were reported in 1904 as having been destroyed.

Knight (Fairfax County, Va., E. Smith, 1902).—On the northwest side of Potomac River, opposite Indianhead, on the bluff at Knights Fishery. Station mark is a 4-inch terra-cotta pipe, set in cement, large end up.

Sycamore (Fairfax County, Va., E. Smith, 1902; 1904).—On the northwestern side of Potomac River, on the highest part of the bluff at Sycamore Point, just back of a large oak tree which is on the edge of the bluff. Station mark is a 3-inch terra-cotta pipe, set in cement, large end down.

Indianhead (Charles County, E. Smith, 1902; 1904).—On the southeastern side of Potomac River, on the north side of Indianhead, close to extreme high-water line. Marked by a 3-inch terra-cotta pipe set in cement, large end down. High up on the bank a similar mark was set; it is 11.19 meters (36.7 feet) from the station in azimuth 356° 35′. Other reference marks are at the following distances and azimuths from the station: Triangle cut in oak tree, 7.60 meters (24.93 feet), 73° 31′; triangle cut in gum tree, 8.00 meters (26.25 feet), 308° 11′; triangle cut in gum tree, 4.37 meters (14.34 feet), 343° 50′.

Glymont (Charles County, E. Smith, 1902; 1904).—On the southeastern shore of Potomac River, on the bluff, in front of Glymont pavilion. Station mark is a 3-inch terra-cotta pipe, set in cement, large end down. Reference marks were established at the following distances and azimuths from the station: Triangle blazed on oak tree, 8.05 meters (26.41 feet), 90° 25′; triangle blazed on oak tree, 2.95 meters (9.68 feet), 165° 24′; triangle blazed on walnut tree, 25.75 meters (84.5 feet), 255° 00′.

Pamunkey (Charles County, E. Smith, 1902; 1904).—On the eastern side of Potomac River, on Hollis Point, at north side of entrance to Pamunkey Creek, on highest ground on point, near an old long shed. Station mark is a 3-inch terra-cotta pipe, set in cement, large end down. A triangle blazed in a willow tree is 16.70 meters (54.8 feet) from the station in azimuth 287° 51′.

Gut (Charles County, E. Smith, 1902; 1904).—On the eastern side of Potomac River, opposite mouth of Gunston Cove, on a point of land near a small run, and just north of a Government landing. Station mark is a 3-inch terra-cotta pipe, set in cement, large end down. In 1904 it was reported that this station mark was found damaged, crushed as if by a wagon. A triangle cut in a wild cherry tree is 9.30 meters (30.51 feet) from the station in azimuth 57° 17′; a similar mark in a locust tree is 25.85 meters (84.8 feet) from the station in azimuth 172° 11′.

Engineers flag No. 7 (U. S. E.) (Charles County, J. E. McGrath, 1901).—On the eastern side of Potomac River, 20 feet inside top edge of bluff, 2 feet northwest of a corner of a worm fence which is about 300 feet below George W. Carpenter's house, and 15 feet southeast of a gully in the bluff. The station mark is a concrete monument projecting 0.6 foot above the ground.

Engineers flag 6⅓ (U. S. E.) (Charles County, J. E. McGrath, 1901; 1903).—This station is on the northeastern side of the Potomac, and is 4.70 meters (15.42 feet) from station *Thom* (see index), in azimuth 37° 10′. Station is about at high-water line and 25 feet out from foot of bluff bank. A cemented gravel and iron ore rock is 2½ feet above the station. The station mark is a cross cut in top of a natural rock of whitish sandstone with yellowish-brown outer surface. It has a rounded top and is about 0.9 foot above ground, 1.4 feet long up and down stream, and 0.8 foot across.

Engineers flag (U. S. E.) near Matt (Charles County, J. E. McGrath, 1901; 1904).—Station established by the United States Engineers, on the eastern side of Potomac River, on point at lower side of entrance to Mattawoman

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Creek, near the inside end of remains of old wharf, on United States Government land. It is 110.4 meters from station *Matt*, in azimuth 49° 59′. The station was marked by a nail in head of a low stump about 10 inches in diameter. In 1904 it was reported that a cement platform for supporting an instrument had been constructed over this station.

Fritz (Charles County, E. Smith, 1902; 1904).—On the eastern side of Potomac River, about midway between Indianhead and Mattawoman Creek, on top of bluff and about 4½ feet (in 1904) back from its edge. It is on a farm belonging to Fritz Reuter, and directly in front of farmhouse. Station marked by a 3-inch terra-cotta pipe buried with top several inches below surface of ground.

High Point (Fairfax County, Va., E. Smith, 1902; 1924).—On the northeastern side of Potomac River, opposite Indianhead Wharf, on bluff at extreme end of High Point, and about 50 feet in from top of bank. Marked by 3-inch terra-cotta pipe set in cement, flange end down. Reference mark No. 1 is nail in blaze on 18-inch hickory tree on slope of bank just above station. Blaze is 4 feet above ground and 59.5 feet from station, in azimuth 292° 36′. Reference mark No. 2 is blaze in double oak tree, each bole being 3.5 feet in diameter. Tree is on slope of bank above reference mark 1, is forked 6 feet above ground, and a blaze cut 3 feet above ground is 103.05 feet from station, in azimuth 274° 39′.

Gunston (Fairfax County, Va., E. Smith, 1902; 1904).—On the western side of Potomac River, about 1 mile above Hallowing Point, on bluff just west of Gunston Wharf. Station mark is a 3-inch terra-cotta pipe set in cement, large end down. A triangle blazed on a cherry tree is 5.45 meters (17.88 feet) from the station, in azimuth 319° 34′; and a similar mark on a locust tree is 9.50 meters (31.17 feet) from the station, in azimuth 81° 01′.

Hallowing Point (Fairfax County, Va., E. Smith, 1902; 1904).—On the northwest side of Potomac River, on the bluff on the upriver side of Hallowing Point. Station mark is a 3-inch terra-cotta pipe set in cement, large end down.

Whitestone Point (Fairfax County, Va., E. Smith, 1902; 1914).—On northwest side of Potomac River, on the highest point of the bluff on Whitestone Point, nearest Gunston Cove. Station marked by a 3-inch terra-cotta pipe set in cement, flange down. Three oak trees were marked with blazes; they are at the following distances and azimuths from the station: 15.50 meters (50.9 feet), 97° 52′; 11.45 meters (37.6 feet), 192° 55′; 5.40 meters (17.72 feet), 233° 17′.

Benvenue (Fairfax County, Va., E. Smith, 1902; 1904).—On west side of Potomac River, on the point of the bluff just west of Speck's boathouse in Gunston Cove, near the house known as Benvenue. Marked by a 3-inch terra-cotta pipe set in cement, flange down. Two oak trees marked with blazes are at the following distances and azimuths from the station: 5.75 meters (18.86 feet), 35° 48′; 5.20 meters (17.06 feet), 115° 32′.

Stevenson (Charles County, E. Smith, 1902; 1914).—On eastern side of Potomac River, on a low bluff, on a point known as Greenway Fishery. Marked by a 3-inch terra-cotta pipe set in cement, flange end down.

Briscoe (Charles County, E. Smith, 1902; 1904).—On eastern side of Potomac River, on lower end of first bluff below Marshall Point, on the Ellesmere farm, belonging to Mr. Hungerford. Station marked with a 3-inch terra-cotta pipe set in cement, flange end down. Distances and azimuths from the station to various points of reference are as follows: Apple tree, 10.84 meters (35.6 feet), 206° 40′; nail in post, 4.53 meters (14.86 feet) 225° 52′: nail in post, 2.70 meters (8.86 feet), 258° 44′; apple tree, 3.65 meters (11.98 feet), 316° 25′; nail in post, 5.07 meters (16.63 feet), 335° 55′.

Dogue (Fairfax County, Va., E. Smith, 1902; 1904).—On west side of Potomac River, on a bluff on lower side of Dogue Creek. Marked with 3-inch terra-cotta pipe set in cement, flange end down. Distances and azimuths from the station of various points of reference are as follows: Triangular blaze on persimmon tree, 6.21 meters (20.37 feet), 198° 23′; triangular blaze on persimmon tree, 5.30 meters (17.39 feet), 238° 10′; triangular blaze on cedar tree, 3.53 meters (11.58 feet), 262° 56′.

Ferry Point (Fairfax County, Va., E. Smith, 1902; 1924).—On western side of Potomac River, opposite Marshall Point, 8 inches back from edge of bluff 25 feet high, 181 feet southwest from near corner of barn above station, 241 feet south of near corner of brick shed, 4,300 feet northwest from foot of

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Marshall Hall Wharf, and 5,500 feet southwest from Mount Vernon Wharf. Marked by 3-inch terra-cotta pipe set in cement, flange end down, top flush with surface.

Marshall Point (Charles County, E. Smith, 1902; 1904).—On eastern side of Potomac River, on low land just above Marshall Hall Wharf. Marked by 3-inch terra-cotta pipe set in cement, flange end down. Two similar pipes as reference marks were set at the foot of the terrace, at the following distances and azimuths from the station: 26.38 meters (86.5 feet), 303° 40′; and 16.57 meters (54.4 feet), 351° 42′.

Mount Vernon 2 (Fairfax County, Va., E. Smith, 1902).—On the northwestern side of Potomac River, in the grounds of the Mount Vernon estate, and east of the group of buildings. It is 32.87 meters (107.8 feet) from a walnut tree. Station mark is a 3-inch tile pipe set in cement, large end down and top about 10 inches below surface of ground. This mark is probably still in existence, but all surface marks have been destroyed.

Budds Ferry (Charles County, J. E. McGrath, 1901; 1904).—On the eastern side of Potomac River, on point at lower side of Chicomuxen Creek, 15 feet inside high-water mark, about 5 feet outside the grass line and above all save the highest tides. It is at the foot of a bluff and near a number of fair-sized bowlders. At a point on the high-water line and just abreast of the signal one can see Posys Wharf, in Chicomuxen Creek, but it is not visible from the station. About 200 feet up the beach two fair-sized trees are growing, one a sycamore and the other a redbud. Station marked by a 4-inch tile pipe 2 feet long, set in cement, with nail in center of top. A reference mark was set in the foot of the slope 2 feet higher in elevation than the station. It consists of a 4-inch tile pipe 1 foot long, set in cement, with nail in top. A redbud tree, 1 foot in diameter and 4 feet higher in elevation than the station, was marked by a blaze with nail in center; a similar mark was placed on another redbud tree which was 5 feet higher in elevation than the station. The following relative directions (not azimuths) were observed and distances measured: Chimney of garbage works on Cherry Hill, 0° 00′; post of old windlass, 6½ feet high, 8 inches in diameter, 4.49 meters (14.73 feet), 58° 59′; nail in blaze in first redbud tree, 11.30 meters (37.1 feet), 74° 29′; nail in reference pipe, 2.69 meters (8.82 feet), 126° 46′; nail in blaze in second redbud tree, 5.43 meters (17.81 feet), 175° 33′.

Mount Vernon (Fairfax County, Va., E. Smith, 1901).—In the field just north of the old Mount Vernon house and north of Cedar Lane. It is nearly on the crest of the hill. Underground mark is a 3-inch terra-cotta pipe set in cement, its top about 15 inches below surface of ground. Surface mark was a similar pipe set in cement, its top projecting 9 inches above surface of ground. A walnut tree is 32.87 meters (107.8 feet) southeasterly from the station. In 1910, and again in 1918, the station was reported as lost, but it is possible that the underground mark still exists.

Bryants Point (Prince Georges County, E. Smith, 1901; 1924).—On eastern side of Potomac River, on extreme end of Bryants Point, and just south of Fish Commission buildings. Underground mark is a 3-inch terra-cotta pipe set in cement, with top 10 inches below surface. Surface mark is short piece of 3-inch terra-cotta pipe set in cement, flange down. Reference mark is similar pipe, 12.60 meters (41.3 feet) from the station, in azimuth 353° 18′. In 1924 the reference mark was recovered and described as being 3 feet out from fence parallel with high-water line, 85 feet below fence perpendicular to high-water line, 55 feet in from high-water line, and about 480 feet below small wharf.

Dyke (Fairfax County, Va., E. Smith, 1901; 1904).—On a narrow ridge of hard land at the extreme point of marsh below New Alexandria and nearly opposite Fort Foot. Underground mark is an inverted white flowerpot (6-inch) set in cement, about 2 feet below surface of ground. Surface mark is a 3-inch terra-cotta pipe set in cement, with top even with surface of ground.

Notley Hall (Princes Georges County, E. Smith, 1901; 1904).—On the old Notley Hall farm, just west of old brick house. Underground mark is an earthen jug, with top 2¼ feet below surface of ground. Surface mark is a 3-inch terra-cotta tile pipe set in cement, its top projecting about 6 inches above the ground.

Dunn (Fairfax County, Va., E. Smith, 1901; 1918).—On the farm of John T. Dunn, on a very high point about halfway between Alexandria and Mount

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Vernon, and in center of small lot just south of farmhouse. It is 46½ feet northeast by east from east corner of smokehouse. The underground mark is a 3-inch terra-cotta pipe set in cement, its top about 15 inches below surface of ground. Surface mark is a short piece of 4-inch terra-cotta pipe set in cement, with top even with surface of ground.

VICINITY OF DISTRICT OF COLUMBIA

Lyon (Fairfax County, Va., C. H. Boyd, 1863).—On top of house formerly owned by Mr. Bellinger, between Fort Lyon and redoubt A, on line between two chimneys, 4 feet 4½ inches from inner edge of scuttle frame.

Red (District of Columbia, O. B. French, 1913).—Near summit of prominent hill located about 300 meters southeast of the northwest line of the District of Columbia and 500 meters north of Chain Bridge. Station is 44 feet from edge of railroad cut, 50 or 75 feet south of the summit of hill, and 62 and 63 feet from nearest of small trees bordering proposed street. It is about 50 feet above the railroad track and 4 feet below the hill summit. Marked by a standard Coast and Geodetic Survey bronze disk set in a 2 by 1 foot triangular bowlder with its top slightly above the surface of the ground. The subsurface mark is a ¾-inch drill hole surrounded by a triangle cut in an irregular-shaped 2 by ½ foot bowlder set with top 1 foot below the surface of the ground.

Rap (Arlington County, Va., O. B. French, 1913).—Nearly ½ mile above Chain Bridge, among the rocks on the north side of the main channel of the Potomac River. Station is on large flat rock about 10 meters from edge of main part of river channel, and abreast of long ledge of rocks near middle of the stream and opposite the first large bend in the bluff on the Virginia side of the river. There is a higher point of rock some 10 meters northwest and another about 7 meters south from the station. Marked by bronze disk in solid rock.

District of Columbia south corner stone (Fairfax County, Va., C. H. Sinclair, 1884).—Is 6.69 meters (21.95 feet) south of the east and west center line of Jones Point Lighthouse and 0.08 meter (0.26 foot) east of the north and south center line extended. The corner was marked by a stone 12 inches square projecting 15 inches above ground. In 1861 a sea wall 3.67 feet high was built inclosing the corner stone. The wall has a battered face, and on this face, 8½ inches below the top, a figure in the shape of a vertical arrow was cut opposite the center of the stone. The corner stone is back of a thin wall stone and its center is under a point 6 inches north of the edge of the top of the wall.

Addison (Prince Georges County, C. H. Sinclair, 1884).—About 2¼ miles southeast of the insane asylum (St. Elizabeths), and near the westerly side of an old graveyard. The underground mark is an earthen ale bottle buried 3 feet below the surface. The surface mark is a drill hole in the center of the top of a granite block 2 feet long and 6 inches square at the top. Distances and azimuths (mag.) to points of reference are as follows: Southwesterly corner of the graveyard, 17 paces, 315°; northwesterly corner of the graveyard, 15 paces, 250°; cherry tree in graveyard, 16 paces, 275°.

Lyon (Prince Georges County, C. H. Sinclair, 1884; 1917).—Nearly a mile east of Fox Ferry, on the slope of the hill overlooking the ferry. A house is about 200 yards from the station and higher up the hill. The station is marked by an ale bottle buried 3 feet and a granite block 2 feet long and 6 inches square with a ¼-inch hole in the center.

Sumner (Montgomery County, C. H. Sinclair, 1880; 1921).—On eastern side of Potomac River, about 1 mile (air line) southeast of Glen Echo, about 250 meters west of Frank Bark's house and on his land, on the northernmost point of the embankment of what was Fort Sumner. Station is 38 meters west of east end of embankment. The station mark is a bronze tablet set in a concrete cylinder, note 1b. The underground mark is an ale bottle about 3 feet below ground. The reference mark is a bronze tablet set in a concrete post, note 11a; it is 25.725 meters (84.40 feet) from the station in azimuth 49° 01′. A tall pole is 53.9 meters (177 feet) distant in azimuth 27° 53′; and another tall pole is 8.30 meters (27.2 feet) distant in azimuth 71° 52′.

Godding (Prince Georges County, E. Smith, 1901).—On part of the old Oxon farm, now the property of the St. Elizabeth Insane Asylum, and known as

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Godding Croft. Station is near the northwest corner of large brick house, 24.1 feet from that corner, and 46.5 feet from southwest corner. The underground mark is a 3-inch terra-cotta pipe set in cement with its top 2 feet below the surface of the ground. Surface mark is 3-inch terra-cotta pipe set in cement with top even with surface of ground.

District of Columbia boundary stone (Little Fall) (Montgomery County, C. H. Sinclair, 1884).—Near Little Fall and southwest of the Dalecarlia Reservoir, on the slope of a hill. It is marked by a sandstone monument 12 inches square and extending 2 feet above ground.

Clump (Montgomery County, C. H. Sinclair, 1884).—About ½ mile northwesterly from the north corner of District of Columbia, on land owned by Cissel, in the edge of a small clump of trees, 16.5 meters (54 feet) east of fence, and not far from the junction of two fences to the southwest. The station is marked by an earthen ale bottle 3 feet underground, and a granite block, 2 feet long and 6 inches square, with a ¼-inch drill hole in the center.

Cissel (Montgomery County, C. H. Sinclair, 1884; 1925).—About ½ mile from the north corner of District of Columbia, southeast of the house of Mr. Cissel, who owns the land. The station is marked by an earthen bottle 3 feet underground and a granite block 2 feet long and 6 inches square on top with a ¼-inch hole in the center. Distances and directions from the station to fence posts were given as follows: 4.39 meters (14.4 feet) east; 3.9 meters (13 feet) northwest; 5.61 meters (18.4 feet) west. In 1925 the station was recovered, its description amplified, and new reference marks set. From Silver Springs follow the Rockland Pike to Grace Church; at Grace Church turn south and follow road to bridge over the Baltimore & Ohio Railroad tracks. The station is on the north side of the tracks, about 75 yards east of the bridge and in the top edge of the cut bank. A telephone post stands about 4 feet west of the station. On the cut bank side of the station the earth has fallen away, exposing some 12 inches of the stone. In 1925 four reference stations were set as follows: No. 1, a standard disk station mark set in top of a 10-inch tile filled with concrete, placed bell end down, top 3 inches above surface of ground; Nos. 2 and 3, standard disk reference marks set in top of 6-inch tiles in same manner as No. 1; No. 4, a standard disk reference mark set in top of a block of concrete 12 inches square, top level with surface of ground. Nos. 1 and 2 are in line with the station, as are also Nos. 3 and 4. At the station the following directions and distances were measured: South end of bridge girder, 0° 00′; north end of bridge girder, 15° 06′, 75 yards (approximate); reference mark No. 1, 103° 54′, 4.856 meters (15.93 feet); No. 2, 103° 53′, 9.847 meters (32.31 feet); No. 3, 162° 32′, 6.519 meters (21.39 feet); and No. 4, 162° 33′, 13.537 meters (44.41 feet). At reference mark No. 1 the following directions and distances were observed: South end of bridge girder, 0° 00′; north end of bridge girder, 14° 40′, 75 yards (approximate); reference mark No. 2, 107° 42′, 4.991 meters (16.37 feet); No. 4, 187° 04′, 11.764 meters (38.60 feet); No. 3, 212° 30′, 5.761 meters (18.90 feet); and station, 287° 46′.

District of Columbia north corner stone (Montgomery County, C. H. Sinclair, 1884).—On the northwest side of a hill, on land of Mr. Fenwick. Marked by a stone 12 inches square and projecting 2 feet above ground.

Godfrey (Prince Georges County, C. H. Sinclair, 1884).—On land of James Godfrey, on top of a hill, in an orchard, and not far from Addison Chapel. The station is marked by an ale bottle 3 feet underground and a granite block with a drill hole in the top.

Wood (Prince Georges County, C. H. Sinclair, 1884).—About ¼ mile southwest of the east corner of District of Columbia, in the edge of woods, alongside of the road, about 300 yards west of the house of Lee (colored), and on the slope of the hill. The station is marked by a buried ale bottle and a granite block. It is 1.95 meters (6.4 feet) from a pine tree to the south and 2.29 meters (7.5 feet) from a white oak to the southwest.

District of Columbia east corner stone (Prince Georges County, C. H. Sinclair, 1884).—Down in the bottom, on the east side of a stream. Marked by a stone 12 inches square and extending 2 feet above ground.

Bailey (Montgomery County, J. B. Boutelle, 1892).—On a prominent hill about 3 miles west of the town of Rockville, on the farm of Thomas M. Bailey. The top of the hill is a knoll of loose rock covered with a growth of hickory trees. Mr. Bailey's home is ½ mile west of station, and Mr. Vier's home ¼ mile east of station. Station marked by nail in top of chestnut stub

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about 8 inches in diameter and 2.5 feet long, set firmly in the ground. Three trees were marked with triangles and nails as follows: Hickory tree, 4.039 meters (13.25 feet) north; white oak stump, 6.25 meters (20.5 feet) east; chestnut stump, 4.471 meters (14.67 feet) west.

Wright (Prince Georges County, C. H. Sinclair, 1884; 1921).—About ½ mile north of the east corner of District of Columbia, on a prominent hill. The station is marked by an earthen ale bottle with the bottom 3 feet underground and a granite block 2 feet long and 6 inches square with a ¼-inch hole in the center. Distances and azimuths (mag.) from the station to reference points are as follows: Tree in a peach orchard, 8 yards, 44°; corner (southwest) of Wright's house, 83 yards, 98°; south corner of ice house, 45 yards, 116°. Station reported lost in 1925.

Rockville Astronomical Latitude Station (Montgomery County, E. Smith, 1891; 1892).—In the garden of Edwin Smith, on Forest Avenue, about 1 mile from the railroad depot and ½ mile from the nearest point of the railroad, on one of the highest points in the surrounding country. The station is marked by a rough sandstone and cement pier, 2 feet square and 3¼ feet above the ground, resting on a ledge of solid quartz rock, about 2 feet below the surface of the ground. Another pier, of similar construction, is 1.98 meters (6.5 feet) north of the station. Triangulation station *Smith* (not described), is 5.6 meters (18.4 feet) north and 2.5 meters (8.2 feet) west of the station.

Home (District of Columbia, O. B. French, 1912; 1917).—On top of the large square tower at the southern end of the Scott Building in the Soldiers' Home grounds. This tower has a large stone post at the top of each corner, the one at the southwestern corner being larger than the others. The tower was built about the year 1902 on the site of the original tower which contained the station of 1880–1884, and its center is probably within a few inches of the old station. The station is marked by a nail driven in the highest floor of the tower. It is 1.355 meters (4.45 feet) from the inside face of the south wall of the tower; 5.350 meters (17.55 feet) from the inside face of the north wall; 1.940 meters (6.36 feet) from the inside face of the west wall; and 4.835 meters (15.86 feet) from the inside face of the east wall. The center of the stone at the southwest corner is 2.790 meters (9.15 feet) from the station in azimuth 51° 13′. The nearest corner of the hatch combing is 1.690 meters (5.54 feet) from the station. In 1917 a standard disk reference mark was set in the northwestern corner of the concrete platform used as a gun mount for an old cannon, about 50 paces southeast of the flag pole. It is 65.63 meters (215.0 feet) from the station in azimuth 21° 04′ 10″.

Insane (District of Columbia, O. B. French, 1912; 1917).—A shallow cross cut in the stone parapet on the north side of the old tower of the old building near the north edge of the grounds of the Government hospital for the insane in Anacostia. It is just east of the western opening in the north wall, being 0.087 meter (0.28 foot) from the south and also the west edge of the top of the wall. Station is 4.280 meters (14.04 feet) from the hole in the center of the tower which marks the station *Insane Asylum* of 1880–1884. The cross marking the 1912 station was reported in 1917 as being very faint.

Training (District of Columbia, O. B. French, 1912; 1917).—The center of the top of the tower on the main or administration building at the boys' training school just east of the Bladensburg Road. It is sometimes called the "Reform School." The center was transferred from the tip of the tower to the platform below which is surrounded by large pillars. It was marked by a tack driven in the tin roof or platform, and is midway between pillars east and west, and about ¼ inch south of the middle point north and south between pillars.

Wallace (Prince Georges County, C. V. Hodgson, 1917).—About ¾ mile northwest of Landover, on east side of Annapolis Road, on roof of two-story frame house owned by R. F. Wallace. Center not marked, but referenced by following distances and azimuths: East corner of roof, 5.748 meters (18.86 feet), 292° 43′; south corner of roof, 6.86 meters (22.51 feet), 336° 40′; west corner of roof, 5.021 meters (16.47 feet), 72° 46′; north corner of roof, 2.775 meters (9.10 feet), 143° 49′. The preceding distances are on the slope. The near corner of north chimney is 1.555 meters (5.10 feet) distant in azimuth 179° 48′. A reference mark, a bronze tablet, as described in note 11a, except that it is set in granite post instead of concrete, is 18.490 meters (60.66 feet) from station in azimuth 161° 35′.

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Holmead (Prince Georges County, C. V. Hodgson, 1917).—About 3 miles east by south from Landover, near the northeast corner of the roof of house of William F. Holmead. Not marked, but referenced by following distances and azimuths: L in roof, 2.89 meters (9.48 feet), 117° 31′; northeast corner of roof, 2.048 meters (6.72 feet), 225° 44′; northeast corner of northeast chimney, 1.93 meters (6.33 feet), 20° 06′; a reference mark, a bronze tablet set in a granite post, is 58.180 meters (190.88 feet), from station in azimuth 299° 05′.

Park (Montgomery County, C. V. Hodgson, 1917).—In Takoma Park, about 120 meters north of the standpipe (station *Takoma*), on the roof of the summer residence of D. E. Kleps. Not marked, but referenced by the following distances and azimuths (all distances are inclined distances over roof): Southeast corner of roof, 8.96 meters (29.40 feet), 8° 35′; northeast corner of south chimney, 6.17 meters (20.24 feet), 35° 58′; southwest corner of roof, 9.06 meters (29.72 feet), 53° 24′; northwest corner of roof, 4.63 meters (15.19 feet), 160° 28′; southwest corner of north chimney, 2.88 meters (9.45 feet), 203° 12′; northeast corner or roof, 4.40 meters (14.44 feet), 257° 44′.

Cedar (Prince Georges County, C. V. Hodgson, 1917).—About 2½ miles northeast of Berwyn, and 1½ miles southeast of Sunnyside, near house occupied by Charles S. Peters; the house is distinguished from others near by by avenue of cedars leading up to it. Station marked by a standard bronze tablet station mark set in granite post. The reference mark, a bronze tablet in a granite post, is 21.925 meters (71.93 feet) from station in azimuth 211° 20′. Northwest corner of house is 10.869 meters (35.66 feet) from station in azimuth 274° 46′, and the southwest corner of south porch (outside corner of post) is distant 16.345 meters (53.63 feet) in azimuth 323° 35′.

Garfield (District of Columbia, C. V. Hodgson, 1917).—On the roof of Garfield School. Marked by a single tack in the tin roof with reference points at the following distances and azimuths: Southeast corner of trap door of roof, 3.380 meters (11.09 feet), 137° 21′; northwest ventilator, finial, 5.980 meters (19.62 feet), 139° 24′; northeast ventilator, finial, 6.805 meters (22.33 feet), 208° 55′; northeast corner of the brick chimney, 11.525 meters (37.81 feet), 21° 21′; and granite reference mark, note 11, 46.656 meters (153.07 feet), 74° 45′.

Gerst (Prince Georges County, C. V. Hodgson, 1917.—About ¼ mile west of Suitland, on the northwest corner of top of tall yellow house around windmill on the farm of Ernst Gerstenberg. Station is on tin roof, and center unmarked, but referenced by following distances and azimuths: Center of windmill, 1.002 meters (3.29 feet), 262° 32′; northwest corner of frame for pump, 0.442 meter (1.45 feet), 263° 06′; southwest corner of roof, 2.17 meters (7.12 feet) (inclined distance), 325° 04′; northwest corner of roof, 0.832 meter (2.73 feet) (inclined distance), 74° 16′. The reference mark, a bronze tablet set in a granite post, note 11, is 56.868 meters (186.57) from station in azimuth, 306° 14′.

Pisgah (Montgomery County, C. V. Hodgson, 1917).—About 1 mile north by east from Avenel, in the triangular field lying just across the road from Mount Pisgah Church, and about 150 paces distant therefrom, on land owned by Randolph Rapley. The line to Hyattsville standpipe passes just to right of frame house about ¼ mile distant. The station and reference marks are bronze tablets as described in notes 1a and 11a, except that they are set in granite posts instead of concrete. The reference mark is in fence line on east side of road, and is 36.09 meters (118.4 feet) distant in azimuth 118° 38′. The azimuth of Mount Pisgah Church is 269° 35′.

Reno (District of Columbia, Max Steinberg, 1917).—In Tenallytown, on the top of the Reno standpipe. The station was not marked because of danger of breaking the tiles of the roof. The point can be readily reproduced as it is the intersection of the following ranges: Reference mark No. 3 with station *Home*, and reference mark No. 2 with station *Chevy*. The reference marks are crosses cut in the stone parapet encircling the tower. From the station No. 3 is distant 1.930 meters (6.33 feet), in azimuth 281° 53′; and No. 2 is 1.577 meters (5.17 feet), in azimuth 174° 57′. The northwest corner of the metal house over the stairway is 1.12 meters (3.7 feet) from the station in azimuth 311° 47′, and the northeast corner of metal house over tank 1.145 meters (3.75 feet), in azimuth 27° 15′.

Chevy (Montgomery County, C. V. Hodgson, 1917).—Station is the finial of the large Chevy Chase standpipe.

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Ken (Montgomery County, C. V. Hodgson, 1917).—Station is the finial on top of the Kensington standpipe, about 130 feet above ground.

Wheaton (Montgomery County, C. V. Hodgson, 1917).—Between the road from Wheaton to Kensington and the public road running west from Wheaton almost parallel to the Kensington Road, in an open field belonging to Mrs. Margaret Burgdorf, and about 50 meters west of a clump of tall trees. The station mark is a bronze tablet set as described in note 1a except that a granite post was used instead of concrete and, because the field was in cultivation, it was buried sufficiently deep to escape disturbance from a plow. The reference mark is a bronze tablet set as described in note 11a except that a granite post was used. It is in a line fence between the Burgdorf farm and the one to the north, just north of the northern road mentioned above, about 2 meters east of a cedar, and 110.84 meters (363.6 feet) from the station in azimuth 215° 52′. Distances and azimuths to other reference points are as follows: East gable on hay barn, about 100 meters, 10° 17′; west gable of Hickerson's store, about 200 meters, 259° 20′.

Dulce (Montgomery County, C. V. Hodgson, 1917).—About ½ mile west of Bethesda, just northeast of the residence of A. C. Ruebsam. The station and underground marks are bronze tablets set as described in notes 1a and 7a, except that the station mark is in a granite post instead of concrete. The reference mark is a bronze tablet set in rock, note 12b. It is 11.483 meters (37.67 feet) from station in azimuth 183° 26′. Outside corner of southeast porch post is 5.12 meters (16.80 feet) from station in azimuth 5° 06′, and the northeast corner of house is 13.11 meters (43.0 feet) distant in azimuth 91° 55′.

Beach (Montgomery County, C. V. Hodgson, 1917).—About 2½ miles northwest of Kensington, on the east side of the Washington-Rockville road, opposite the residence of Mrs. Morgan H. Beach, and almost in front of tenant house belonging to Mrs. Beach. Station marked by a bronze disk according to note 1a, a granite post being used. Reference mark, note 11a, a granite post being used, is near the fence line on west side of road, and a few meters south of roadway leading to Mrs. Beach's residence. It is 23.55 meters (77.3 feet) from station in azimuth 20° 45′. Northwest corner of Beach tenant house is 12.525 meters (41.09 feet) from station in azimuth 199° 50′, and its southwest corner is distant 9.22 meters (30.25 feet) in azimuth 219° 57′.

Takoma (Montgomery County, C. V. Hodgson, 1917).—Center of stem of the finial on top of standpipe at Takoma Park.

Beth (Montgomery County, C. V. Hodgson, 1917).—The finial on the smaller of two water tanks belonging to the Chevy Chase Land Co.

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CONVERSION TABLES

Lengths—Feet to meters (from 1 to 1000 units).

[Reduction factor: 1 foot=0.3048006096 meter.]

Feet.	Meters.	Feet.	Meters.	Feet.	Meters.	Feet.	Meters.	Feet.	Meters.
0	0.0	50	15.24003	100	30.48006	150	45.72009	200	60.96012
1	0.30480	1	15.54483	1	30.78486	1	46.02489	1	61.26492
2	0.60960	2	15.84963	2	31.08966	2	46.32969	2	61.56972
3	0.91440	3	16.15443	3	31.39446	3	46.63449	3	61.87452
4	1.21920	4	16.45923	4	31.69926	4	46.93929	4	62.17932
5	1.52400	5	16.76403	5	32.00406	5	47.24409	5	62.48412
6	1.82880	6	17.06883	6	32.30886	6	47.54890	6	62.78893
7	2.13360	7	17.37363	7	32.61367	7	47.85370	7	63.09373
8	2.43840	8	17.67844	8	32.91847	8	48.15850	8	63.39853
9	2.74321	9	17.98324	9	33.22327	9	48.46330	9	63.70333
10	3.04801	60	18.28804	110	33.52807	160	48.76810	210	64.00813
1	3.35281	1	18.59284	1	33.83287	1	49.07290	1	64.31293
2	3.65761	2	18.89764	2	34.13767	2	49.37770	2	64.61773
3	3.96241	3	19.20244	3	34.44247	3	49.68250	3	64.92253
4	4.26721	4	19.50724	4	34.74727	4	49.98730	4	65.22733
5	4.57201	5	19.81204	5	35.05207	5	50.29210	5	65.53213
6	4.87681	6	20.11684	6	35.35687	6	50.59690	6	65.83693
7	5.18161	7	20.42164	7	35.66167	7	50.90170	7	66.14173
8	5.48641	8	20.72644	8	35.96647	8	51.20650	8	66.44653
9	5.79121	9	21.03124	9	36.27127	9	51.51130	9	66.75133
20	6.09601	70	21.33604	120	36.57607	170	51.81610	220	67.05613
1	6.40081	1	21.64084	1	36.88087	1	52.12090	1	67.36093
2	6.70561	2	21.94564	2	37.18567	2	52.42570	2	67.66574
3	7.01041	3	22.25044	3	37.49047	3	52.73051	3	67.97054
4	7.31521	4	22.55525	4	37.79528	4	53.03531	4	68.27534
5	7.62002	5	22.86005	5	38.10008	5	53.34011	5	68.58014
6	7.92482	6	23.16485	6	38.40488	6	53.64491	6	68.88494
7	8.22962	7	23.46965	7	38.70968	7	53.94971	7	69.18974
8	8.53442	8	23.77445	8	39.01448	8	54.25451	8	69.49454
9	8.83922	9	24.07925	9	39.31928	9	54.55931	9	69.79934
30	9.14402	80	24.38405	130	39.62408	180	54.86411	230	70.10414
1	9.44882	1	24.68885	1	39.92888	1	55.16891	1	70.40894
2	9.75362	2	24.99365	2	40.23368	2	55.47371	2	70.71374
3	10.05842	3	25.29845	3	40.53848	3	55.77851	3	71.01854
4	10.36322	4	25.60325	4	40.84328	4	56.08331	4	71.32334
5	10.66802	5	25.90805	5	41.14808	5	56.38811	5	71.62814
6	10.97282	6	26.21285	6	41.45288	6	56.69291	6	71.93294
7	11.27762	7	26.51765	7	41.75768	7	56.99771	7	72.23774
8	11.58242	8	26.82245	8	42.06248	8	57.30251	8	72.54255
9	11.88722	9	27.12725	9	42.36728	9	57.60732	9	72.84735
40	12.19202	90	27.43205	140	42.67209	190	57.91212	240	73.15215
1	12.49682	1	27.73686	1	42.97689	1	58.21692	1	73.45695
2	12.80163	2	28.04166	2	43.28169	2	58.52172	2	73.76175
3	13.10643	3	28.34646	3	43.58649	3	58.82652	3	74.06655
4	13.41123	4	28.65126	4	43.89129	4	59.13132	4	74.37135
5	13.71603	5	28.95606	5	44.19609	5	59.43612	5	74.67615
6	14.02083	6	29.26086	6	44.50089	6	59.74092	6	74.98095
7	14.32563	7	29.56566	7	44.80569	7	60.04572	7	75.28575
8	14.63043	8	29.87046	8	45.11049	8	60.35052	8	75.59055
9	14.93523	9	30.17526	9	45.41529	9	60.65532	9	75.89535

Lengths—Feet to meters (from 1 to 1000 units)—Continued.

Feet.	Meters.	Feet.	Meters.	Feet.	Meters.	Feet.	Meters.	Feet.	Meters.
250	76.20015	300	91.44018	350	106.68021	400	121.92024	450	137.16027
1	76.50495	1	91.74498	1	106.98501	1	122.22504	1	137.46507
2	76.80975	2	92.04978	2	107.28981	2	122.52985	2	137.76988
3	77.11455	3	92.35458	3	107.59462	3	122.83465	3	138.07468
4	77.41935	4	92.65939	4	107.89942	4	123.13945	4	138.37948
5	77.72416	5	92.96419	5	108.20422	5	123.44425	5	138.68428
6	78.02896	6	93.26899	6	108.50902	6	123.74905	6	138.98908
7	78.33376	7	93.57379	7	108.81382	7	124.05385	7	139.29388
8	78.63856	8	93.87859	8	109.11862	8	124.35865	8	139.59868
9	78.94336	9	94.18339	9	109.42342	9	124.66345	9	139.90348
260	79.24816	310	94.48819	360	109.72822	410	124.96825	460	140.20828
1	79.55296	1	94.79299	1	110.03302	1	125.27305	1	140.51308
2	79.85776	2	95.09779	2	110.33782	2	125.57785	2	140.81788
3	80.16256	3	95.40259	3	110.64262	3	125.88265	3	141.12268
4	80.46736	4	95.70739	4	110.94742	4	126.18745	4	141.42748
5	80.77216	5	96.01219	5	111.25222	5	126.49225	5	141.73228
6	81.07696	6	96.31699	6	111.55702	6	126.79705	6	142.03708
7	81.38176	7	96.62179	7	111.86182	7	127.10185	7	142.34188
8	81.68656	8	96.92659	8	112.16662	8	127.40665	8	142.64669
9	81.99136	9	97.23139	9	112.47142	9	127.71145	9	142.95149
270	82.29616	320	97.53620	370	112.77623	420	128.01626	470	143.25629
1	82.60097	1	97.84100	1	113.08103	1	128.32106	1	143.56109
2	82.90577	2	98.14580	2	113.38583	2	128.62586	2	143.86589
3	83.21057	3	98.45060	3	113.69063	3	128.93066	3	144.17069
4	83.51537	4	98.75540	4	113.99543	4	129.23546	4	144.47549
5	83.82017	5	99.06020	5	114.30023	5	129.54026	5	144.78029
6	84.12497	6	99.36500	6	114.60503	6	129.84506	6	145.08509
7	84.42977	7	99.66980	7	114.90983	7	130.14986	7	145.38989
8	84.73457	8	99.97460	8	115.21463	8	130.45466	8	145.69469
9	85.03937	9	100.27940	9	115.51943	9	130.75946	9	145.99949
280	85.34417	330	100.58420	380	115.82423	430	131.06426	480	146.30429
1	85.64897	1	100.88900	1	116.12903	1	131.36906	1	146.60909
2	85.95377	2	101.19380	2	116.43383	2	131.67386	2	146.91389
3	86.25857	3	101.49860	3	116.73863	3	131.97866	3	147.21869
4	86.56337	4	101.80340	4	117.04343	4	132.28346	4	147.52350
5	86.86817	5	102.10820	5	117.34823	5	132.58827	5	147.82830
6	87.17297	6	102.41300	6	117.65304	6	132.89307	6	148.13310
7	87.47777	7	102.71781	7	117.95784	7	133.19787	7	148.43790
8	87.78258	8	103.02261	8	118.26264	8	133.50267	8	148.74270
9	88.08738	9	103.32741	9	118.56744	9	133.80747	9	149.04750
290	88.39218	340	103.63221	390	118.87224	440	134.11227	490	149.35230
1	88.69698	1	103.93701	1	119.17704	1	134.41707	1	149.65710
2	89.00178	2	104.24181	2	119.48184	2	134.72187	2	149.96190
3	89.30658	3	104.54661	3	119.78664	3	135.02667	3	150.26670
4	89.61138	4	104.85141	4	120.09144	4	135.33147	4	150.57150
5	89.91618	5	105.15621	5	120.39624	5	135.63627	5	150.87630
6	90.22098	6	105.46101	6	120.70104	6	135.94107	6	151.18110
7	90.52578	7	105.76581	7	121.00584	7	136.24587	7	151.48590
8	90.83058	8	106.07061	8	121.31064	8	136.55067	8	151.79070
9	91.13538	9	106.37541	9	121.61544	9	136.85547	9	152.09550

Lengths—Feet to meters (from 1 to 1000 units)—Continued.

Feet.	Meters.	Feet.	Meters.	Feet.	Meters.	Feet.	Meters.	Feet.	Meters.
500	152.40030	550	167.64034	600	182.88037	650	198.12040	700	213.36043
1	152.70511	1	167.94514	1	183.18517	1	198.42520	1	213.66523
2	153.00991	2	168.24994	2	183.48997	2	198.73000	2	213.97003
3	153.31471	3	168.55474	3	183.79477	3	199.03480	3	214.27483
4	153.61951	4	168.85954	4	184.09957	4	199.33960	4	214.57963
5	153.92431	5	169.16434	5	184.40437	5	199.64440	5	214.88443
6	154.22911	6	169.46914	6	184.70917	6	199.94920	6	215.18923
7	154.53391	7	169.77394	7	185.01397	7	200.25400	7	215.49403
8	154.83871	8	170.07874	8	185.31877	8	200.55880	8	215.79883
9	155.14351	9	170.38354	9	185.62357	9	200.86360	9	216.10363
510	155.44831	560	170.68834	610	185.92837	660	201.16840	710	216.40843
1	155.75311	1	170.99314	1	186.23317	1	201.47320	1	216.71323
2	156.05791	2	171.29794	2	186.53797	2	201.77800	2	217.01803
3	156.36271	3	171.60274	3	186.84277	3	202.08280	3	217.32283
4	156.66751	4	171.90754	4	187.14757	4	202.38760	4	217.62764
5	156.97231	5	172.21234	5	187.45237	5	202.69241	5	217.93244
6	157.27711	6	172.51715	6	187.75718	6	202.99721	6	218.23724
7	157.58192	7	172.82195	7	188.06198	7	203.30201	7	218.54204
8	157.88672	8	173.12675	8	188.36678	8	203.60681	8	218.84684
9	158.19152	9	173.43155	9	188.67158	9	203.91161	9	219.15164
520	158.49632	570	173.73635	620	188.97638	670	204.21641	720	219.45644
1	158.80112	1	174.04115	1	189.28118	1	204.52121	1	219.76124
2	159.10592	2	174.34595	2	189.58598	2	204.82601	2	220.06604
3	159.41072	3	174.65075	3	189.89078	3	205.13081	3	220.37084
4	159.71552	4	174.95555	4	190.19558	4	205.43561	4	220.67564
5	160.02032	5	175.26035	5	190.50038	5	205.74041	5	220.98044
6	160.32512	6	175.56515	6	190.80518	6	206.04521	6	221.28524
7	160.62992	7	175.86995	7	191.10998	7	206.35001	7	221.59004
8	160.93472	8	176.17475	8	191.41478	8	206.65481	8	221.89484
9	161.23952	9	176.47955	9	191.71958	9	206.95961	9	222.19964
530	161.54432	580	176.78435	630	192.02438	680	207.26441	730	222.50445
1	161.84912	1	177.08915	1	192.32918	1	207.56922	1	222.80925
2	162.15392	2	177.39395	2	192.63399	2	207.87402	2	223.11405
3	162.45872	3	177.69876	3	192.93879	3	208.17882	3	223.41885
4	162.76353	4	178.00356	4	193.24359	4	208.48362	4	223.72365
5	163.06833	5	178.30836	5	193.54839	5	208.78842	5	224.02845
6	163.37313	6	178.61316	6	193.85319	6	209.09322	6	224.33325
7	163.67793	7	178.91796	7	194.15799	7	209.39802	7	224.63805
8	163.98273	8	179.22276	8	194.46279	8	209.70282	8	224.94285
9	164.28753	9	179.52756	9	194.76759	9	210.00762	9	225.24765
540	164.59233	590	179.83236	640	195.07239	690	210.31242	740	225.55245
1	164.89713	1	180.13716	1	195.37719	1	210.61722	1	225.85725
2	165.20193	2	180.44196	2	195.68199	2	210.92202	2	226.16205
3	165.50673	3	180.74676	3	195.98679	3	211.22682	3	226.46685
4	165.81153	4	181.05156	4	196.29159	4	211.53162	4	226.77165
5	166.11633	5	181.35636	5	196.59639	5	211.83642	5	227.07645
6	166.42113	6	181.66116	6	196.90119	6	212.14122	6	227.38125
7	166.72593	7	181.96596	7	197.20599	7	212.44602	7	227.68606
8	167.03073	8	182.27076	8	197.51080	8	212.75083	8	227.99086
9	167.33553	9	182.57557	9	197.81560	9	213.05563	9	228.29566

Lengths—Feet to meters (from 1 to 1000 units)—Continued.

Feet.	Meters.	Feet.	Meters.	Feet.	Meters.	Feet.	Meters.	Feet.	Meters.
750	228.60046	800	243.84049	850	259.08052	900	274.32055	950	289.56058
1	228.90526	1	244.14529	1	259.38532	1	274.62535	1	289.86538
2	229.21006	2	244.45009	2	259.69012	2	274.93015	2	290.17018
3	229.51486	3	244.75489	3	259.99492	3	275.23495	3	290.47498
4	229.81966	4	245.05969	4	260.29972	4	275.53975	4	290.77978
5	230.12446	5	245.36449	5	260.60452	5	275.84455	5	291.08458
6	230.42926	6	245.66929	6	260.90932	6	276.14935	6	291.38938
7	230.73406	7	245.97409	7	261.21412	7	276.45415	7	291.69418
8	231.03886	8	246.27889	8	261.51892	8	276.75895	8	291.99898
9	231.34366	9	246.58369	9	261.82372	9	277.06375	9	292.30378
760	231.64846	810	246.88849	860	262.12852	910	277.36855	960	292.60859
1	231.95326	1	247.19329	1	262.43332	1	277.67336	1	292.91339
2	232.25806	2	247.49809	2	262.73813	2	277.97816	2	293.21819
3	232.56287	3	247.80290	3	263.04293	3	278.28296	3	293.52299
4	232.86767	4	248.10770	4	263.34773	4	278.58776	4	293.82779
5	233.17247	5	248.41250	5	263.65253	5	278.89256	5	294.13259
6	233.47727	6	248.71730	6	263.95733	6	279.19736	6	294.43739
7	233.78207	7	249.02210	7	264.26213	7	279.50216	7	294.74219
8	234.08687	8	249.32690	8	264.56693	8	279.80696	8	295.04699
9	234.39167	9	249.63170	9	264.87173	9	280.11176	9	295.35179
770	234.69647	820	249.93650	870	265.17653	920	280.41656	970	295.65659
1	235.00127	1	250.24130	1	265.48133	1	280.72136	1	295.96139
2	235.30607	2	250.54610	2	265.78613	2	281.02616	2	296.26619
3	235.61087	3	250.85090	3	266.09093	3	281.33096	3	296.57099
4	235.91567	4	251.15570	4	266.39573	4	281.63576	4	296.87579
5	236.22047	5	251.46050	5	266.70053	5	281.94056	5	297.18059
6	236.52527	6	251.76530	6	267.00533	6	282.24536	6	297.48539
7	236.83007	7	252.07010	7	267.31013	7	282.55017	7	297.79020
8	237.13487	8	252.37490	8	267.61494	8	282.85497	8	298.09500
9	237.43967	9	252.67971	9	267.91974	9	283.15977	9	298.39980
780	237.74448	830	252.98451	880	268.22454	930	283.46457	980	298.70460
1	238.04928	1	253.28931	1	268.52934	1	283.76937	1	299.00940
2	238.35408	2	253.59411	2	268.83414	2	284.07417	2	299.31420
3	238.65888	3	253.89891	3	269.13894	3	284.37897	3	299.61900
4	238.96368	4	254.20371	4	269.44374	4	284.68377	4	299.92380
5	239.26848	5	254.50851	5	269.74854	5	284.98857	5	300.22860
6	239.57328	6	254.81331	6	270.05334	6	285.29337	6	300.53340
7	239.87808	7	255.11811	7	270.35814	7	285.59817	7	300.83820
8	240.18288	8	255.42291	8	270.66294	8	285.90297	8	301.14300
9	240.48768	9	255.72771	9	270.96774	9	286.20777	9	301.44780
790	240.79248	840	256.03251	890	271.27254	940	286.51257	990	301.75260
1	241.09728	1	256.33731	1	271.57734	1	286.81737	1	302.05740
2	241.40208	2	256.64211	2	271.88214	2	287.12217	2	302.36220
3	241.70688	3	256.94691	3	272.18694	3	287.42697	3	302.66701
4	242.01168	4	257.25171	4	272.49174	4	287.73178	4	302.97181
5	242.31648	5	257.55652	5	272.79655	5	288.03658	5	303.27661
6	242.62129	6	257.86132	6	273.10135	6	288.34138	6	303.58141
7	242.92609	7	258.16612	7	273.40615	7	288.64618	7	303.88621
8	243.23089	8	258.47092	8	273.71095	8	288.95098	8	304.19101
9	243.53569	9	258.77572	9	274.01575	9	289.25578	9	304.49581

Lengths—Meters to feet (from 1 to 1000 units).

[Reduction factor: 1 meter=3.280833333 feet.]

Meters.	Feet.	Meters.	Feet.	Meters.	Feet.	Meters.	Feet.	Meters.	Feet.
0		50	164.04167	100	328.08333	150	492.12500	200	656.16667
1	3.28083	1	167.32250	1	331.36417	1	495.40583	1	659.44750
2	6.56167	2	170.60333	2	334.64500	2	498.68667	2	662.72833
3	9.84250	3	173.88417	3	337.92583	3	501.96750	3	666.00917
4	13.12333	4	177.16500	4	341.20667	4	505.24833	4	669.29000
5	16.40417	5	180.44583	5	344.48750	5	508.52917	5	672.57083
6	19.68500	6	183.72667	6	347.76833	6	511.81000	6	675.85167
7	22.96583	7	187.00750	7	351.04917	7	515.09083	7	679.13250
8	26.24667	8	190.28833	8	354.33000	8	518.37167	8	682.41333
9	29.52750	9	193.56917	9	357.61083	9	521.65250	9	685.69417
10	32.80833	60	196.85000	110	360.89167	160	524.93333	210	688.97500
1	36.08917	1	200.13083	1	364.17250	1	528.21417	1	692.25583
2	39.37000	2	203.41167	2	367.45333	2	531.49500	2	695.53667
3	42.65083	3	206.69250	3	370.73417	3	534.77583	3	698.81750
4	45.93167	4	209.97333	4	374.01500	4	538.05667	4	702.09833
5	49.21250	5	213.25417	5	377.29583	5	541.33750	5	705.37917
6	52.49333	6	216.53500	6	380.57667	6	544.61833	6	708.66000
7	55.77417	7	219.81583	7	383.85750	7	547.89917	7	711.94083
8	59.05500	8	223.09667	8	387.13833	8	551.18000	8	715.22167
9	62.33583	9	226.37750	9	390.41917	9	554.46083	9	718.50250
20	65.61667	70	229.65833	120	393.70000	170	557.74167	220	721.78333
1	68.89750	1	232.93917	1	396.98083	1	561.02250	1	725.06417
2	72.17833	2	236.22000	2	400.26167	2	564.30333	2	728.34500
3	75.45917	3	239.50083	3	403.54250	3	567.58417	3	731.62583
4	78.74000	4	242.78167	4	406.82333	4	570.86500	4	734.90667
5	82.02083	5	246.06250	5	410.10417	5	574.14583	5	738.18750
6	85.30167	6	249.34333	6	413.38500	6	577.42667	6	741.46833
7	88.58250	7	252.62417	7	416.66583	7	580.70750	7	744.74917
8	91.86333	8	255.90500	8	419.94667	8	583.98833	8	748.03000
9	95.14417	9	259.18583	9	423.22750	9	587.26917	9	751.31083
30	98.42500	80	262.46667	130	426.50833	180	590.55000	230	754.59167
1	101.70583	1	265.74750	1	429.78917	1	593.83083	1	757.87250
2	104.98667	2	269.02833	2	433.07000	2	597.11167	2	761.15333
3	108.26750	3	272.30917	3	436.35083	3	600.39250	3	764.43417
4	111.54833	4	275.59000	4	439.63167	4	603.67333	4	767.71500
5	114.82917	5	278.87083	5	442.91250	5	606.95417	5	770.99583
6	118.11000	6	282.15167	6	446.19333	6	610.23500	6	774.27667
7	121.39083	7	285.43250	7	449.47417	7	613.51583	7	777.55750
8	124.67167	8	288.71333	8	452.75500	8	616.79667	8	780.83833
9	127.95250	9	291.99417	9	456.03583	9	620.07750	9	784.11917
40	131.23333	90	295.27500	140	459.31667	190	623.35833	240	787.40000
1	134.51417	1	298.55583	1	462.59750	1	626.63917	1	790.68083
2	137.79500	2	301.83667	2	465.87833	2	629.92000	2	793.96167
3	141.07583	3	305.11750	3	469.15917	3	633.20083	3	797.24250
4	144.35667	4	308.39833	4	472.44000	4	636.48167	4	800.52333
5	147.63750	5	311.67917	5	475.72083	5	639.76250	5	803.80417
6	150.91833	6	314.96000	6	479.00167	6	643.04333	6	807.08500
7	154.19917	7	318.24083	7	482.28250	7	646.32417	7	810.36583
8	157.48000	8	321.52167	8	485.56333	8	649.60500	8	813.64667
9	160.76083	9	324.80250	9	488.84417	9	652.88583	9	816.92750

Lengths—Meters to feet (from 1 to 1000 units)—Continued.

Meters.	Feet.	Meters.	Feet.	Meters.	Feet.	Meters.	Feet.	Meters.	Feet.
250	820.20833	300	984.25000	350	1,148.29167	400	1,312.33333	450	1,476.37500
1	823.48917	1	987.53083	1	1,151.57250	1	1,315.61417	1	1,479.65583
2	826.77000	2	990.81167	2	1,154.85333	2	1,318.89500	2	1,482.93667
3	830.05083	3	994.09250	3	1,158.13417	3	1,322.17583	3	1,486.21750
4	833.33167	4	997.37333	4	1,161.41500	4	1,325.45667	4	1,489.49833
5	836.61250	5	1,000.65417	5	1,164.69583	5	1,328.73750	5	1,492.77917
6	839.89333	6	1,003.93500	6	1,167.97667	6	1,332.01833	6	1,496.06000
7	843.17417	7	1,007.21583	7	1,171.25750	7	1,335.29917	7	1,499.34083
8	846.45500	8	1,010.49667	8	1,174.53833	8	1,338.58000	8	1,502.62167
9	849.73583	9	1,013.77750	9	1,177.81917	9	1,341.86083	9	1,505.90250
260	853.01667	310	1,017.05833	360	1,181.10000	410	1,345.14167	460	1,509.18333
1	856.29750	1	1,020.33917	1	1,184.38083	1	1,348.42250	1	1,512.46417
2	859.57833	2	1,023.62000	2	1,187.66167	2	1,351.70333	2	1,515.74500
3	862.85917	3	1,026.90083	3	1,190.94250	3	1,354.98417	3	1,519.02583
4	866.14000	4	1,030.18167	4	1,194.22333	4	1,358.26500	4	1,522.30667
5	869.42083	5	1,033.46250	5	1,197.50417	5	1,361.54583	5	1,525.58750
6	872.70167	6	1,036.74333	6	1,200.78500	6	1,364.82667	6	1,528.86833
7	875.98250	7	1,040.02417	7	1,204.06583	7	1,368.10750	7	1,532.14917
8	879.26333	8	1,043.30500	8	1,207.34667	8	1,371.38833	8	1,535.43000
9	882.54417	9	1,046.58583	9	1,210.62750	9	1,374.66917	9	1,538.71083
270	885.82500	320	1,049.86667	370	1,213.90833	420	1,377.95000	470	1,541.99167
1	889.10583	1	1,053.14750	1	1,217.18917	1	1,381.23083	1	1,545.27250
2	892.38667	2	1,056.42833	2	1,220.47000	2	1,384.51167	2	1,548.55333
3	895.66750	3	1,059.70917	3	1,223.75083	3	1,387.79250	3	1,551.83417
4	898.94833	4	1,062.99000	4	1,227.03167	4	1,391.07333	4	1,555.11500
5	902.22917	5	1,066.27083	5	1,230.31250	5	1,394.35417	5	1,558.39583
6	905.51000	6	1,069.55167	6	1,233.59333	6	1,397.63500	6	1,561.67667
7	908.79083	7	1,072.83250	7	1,236.87417	7	1,400.91583	7	1,564.95750
8	912.07167	8	1,076.11333	8	1,240.15500	8	1,404.19667	8	1,568.23833
9	915.35250	9	1,079.39417	9	1,243.43583	9	1,407.47750	9	1,571.51917
280	918.63333	330	1,082.67500	380	1,246.71667	430	1,410.75833	480	1,574.80000
1	921.91417	1	1,085.95583	1	1,249.99750	1	1,414.03917	1	1,578.08083
2	925.19500	2	1,089.23667	2	1,253.27833	2	1,417.32000	2	1,581.36167
3	928.47583	3	1,092.51750	3	1,256.55917	3	1,420.60083	3	1,584.64250
4	931.75667	4	1,095.79833	4	1,259.84000	4	1,423.88167	4	1,587.92333
5	935.03750	5	1,099.07917	5	1,263.12083	5	1,427.16250	5	1,591.20417
6	938.31833	6	1,102.36000	6	1,266.40167	6	1,430.44333	6	1,594.48500
7	941.59917	7	1,105.64083	7	1,269.68250	7	1,433.72417	7	1,597.76583
8	944.88000	8	1,108.92167	8	1,272.96333	8	1,437.00500	8	1,601.04667
9	948.16083	9	1,112.20250	9	1,276.24417	9	1,440.28583	9	1,604.32750
290	951.44167	340	1,115.48333	390	1,279.52500	440	1,443.56667	490	1,607.60833
1	954.72250	1	1,118.76417	1	1,282.80583	1	1,446.84750	1	1,610.88917
2	958.00333	2	1,122.04500	2	1,286.08667	2	1,450.12833	2	1,614.17000
3	961.28417	3	1,125.32583	3	1,289.36750	3	1,453.40917	3	1,617.45083
4	964.56500	4	1,128.60667	4	1,292.64833	4	1,456.69000	4	1,620.73167
5	967.84583	5	1,131.88750	5	1,295.92917	5	1,459.97083	5	1,624.01250
6	971.12667	6	1,135.16833	6	1,299.21000	6	1,463.25167	6	1,627.29333
7	974.40750	7	1,138.44917	7	1,302.49083	7	1,466.53250	7	1,630.57417
8	977.68833	8	1,141.73000	8	1,305.77167	8	1,469.81333	8	1,633.85500
9	980.96917	9	1,145.01083	9	1,309.05250	9	1,473.09417	9	1,637.13583

Lengths—Meters to feet (from 1 to 1000 units)—Continued.

Meters.	Feet.	Meters.	Feet.	Meters.	Feet.	Meters.	Feet.	Meters.	Feet.
500	1,640.41667	550	1,804.45833	600	1,968.50000	650	2,132.54167	700	2,296.58333
1	1,643.69750	1	1,807.73917	1	1,971.78083	1	2,135.82250	1	2,299.86417
2	1,646.97833	2	1,811.02000	2	1,975.06167	2	2,139.10333	2	2,303.14500
3	1,650.25917	3	1,814.30083	3	1,978.34250	3	2,142.38417	3	2,306.42583
4	1,653.54000	4	1,817.58167	4	1,981.62333	4	2,145.66500	4	2,309.70667
5	1,656.82083	5	1,820.86250	5	1,984.90417	5	2,148.94583	5	2,312.98750
6	1,660.10167	6	1,824.14333	6	1,988.18500	6	2,152.22667	6	2,316.26833
7	1,663.38250	7	1,827.42417	7	1,991.46583	7	2,155.50750	7	2,319.54917
8	1,666.66333	8	1,830.70500	8	1,994.74667	8	2,158.78833	8	2,322.83000
9	1,669.94417	9	1,833.98583	9	1,998.02750	9	2,162.06917	9	2,326.11083
510	1,673.22500	560	1,837.26667	610	2,001.30833	660	2,165.35000	710	2,329.39167
1	1,676.50583	1	1,840.54750	1	2,004.58917	1	2,168.63083	1	2,332.67250
2	1,679.78667	2	1,843.82833	2	2,007.87000	2	2,171.91167	2	2,335.95333
3	1,683.06750	3	1,847.10917	3	2,011.15083	3	2,175.19250	3	2,339.23417
4	1,686.34833	4	1,850.39000	4	2,014.43167	4	2,178.47333	4	2,342.51500
5	1,689.62917	5	1,853.67083	5	2,017.71250	5	2,181.75417	5	2,345.79583
6	1,692.91000	6	1,856.95167	6	2,020.99333	6	2,185.03500	6	2,349.07667
7	1,696.19083	7	1,860.23250	7	2,024.27417	7	2,188.31583	7	2,352.35750
8	1,699.47167	8	1,863.51333	8	2,027.55500	8	2,191.59667	8	2,355.63833
9	1,702.75250	9	1,866.79417	9	2,030.83583	9	2,194.87750	9	2,358.91917
520	1,706.03333	570	1,870.07500	620	2,034.11667	670	2,198.15833	720	2,362.20000
1	1,709.31417	1	1,873.35583	1	2,037.39750	1	2,201.43917	1	2,365.48083
2	1,712.59500	2	1,876.63667	2	2,040.67833	2	2,204.72000	2	2,368.76167
3	1,715.87583	3	1,879.91750	3	2,043.95917	3	2,208.00083	3	2,372.04250
4	1,719.15667	4	1,883.19833	4	2,047.24000	4	2,211.28167	4	2,375.32333
5	1,722.43750	5	1,886.47917	5	2,050.52083	5	2,214.56250	5	2,378.60417
6	1,725.71833	6	1,889.76000	6	2,053.80167	6	2,217.84333	6	2,381.88500
7	1,728.99917	7	1,893.04083	7	2,057.08250	7	2,221.12417	7	2,385.16583
8	1,732.28000	8	1,896.32167	8	2,060.36333	8	2,224.40500	8	2,388.44667
9	1,735.56083	9	1,899.60250	9	2,063.64417	9	2,227.68583	9	2,391.72750
530	1,738.84167	580	1,902.88333	630	2,066.92500	680	2,230.96667	730	2,395.00833
1	1,742.12250	1	1,906.16417	1	2,070.20583	1	2,234.24750	1	2,398.28917
2	1,745.40333	2	1,909.44500	2	2,073.48667	2	2,237.52833	2	2,401.57000
3	1,748.68417	3	1,912.72583	3	2,076.76750	3	2,240.80917	3	2,404.85083
4	1,751.96500	4	1,916.00667	4	2,080.04833	4	2,244.09000	4	2,408.13167
5	1,755.24583	5	1,919.28750	5	2,083.32917	5	2,247.37083	5	2,411.41250
6	1,758.52667	6	1,922.56833	6	2,086.61000	6	2,250.65167	6	2,414.69333
7	1,761.80750	7	1,925.84917	7	2,089.89083	7	2,253.93250	7	2,417.97417
8	1,765.08833	8	1,929.13000	8	2,093.17167	8	2,257.21333	8	2,421.25500
9	1,768.36917	9	1,932.41083	9	2,096.45250	9	2,260.49417	9	2,424.53583
540	1,771.65000	590	1,935.69167	640	2,099.73333	690	2,263.77500	740	2,427.81667
1	1,774.93083	1	1,938.97250	1	2,103.01417	1	2,267.05583	1	2,431.09750
2	1,778.21167	2	1,942.25333	2	2,106.29500	2	2,270.33667	2	2,434.37833
3	1,781.49250	3	1,945.53417	3	2,109.57583	3	2,273.61750	3	2,437.65917
4	1,784.77333	4	1,948.81500	4	2,112.85667	4	2,276.89833	4	2,440.94000
5	1,788.05417	5	1,952.09583	5	2,116.13750	5	2,280.17917	5	2,444.22083
6	1,791.33500	6	1,955.37667	6	2,119.41833	6	2,283.46000	6	2,447.50167
7	1,794.61583	7	1,958.65750	7	2,122.69917	7	2,286.74083	7	2,450.78250
8	1,797.89667	8	1,961.93833	8	2,125.98000	8	2,290.02167	8	2,454.06333
9	1,801.17750	9	1,965.21917	9	2,129.26083	9	2,293.30250	9	2,457.34417

Lengths—Meters to feet (from 1 to 1000 units)—Continued.

Meters.	Feet.	Meters.	Feet.	Meters.	Feet.	Meters.	Feet.	Meters.	Feet.
750	2,460.62500	800	2,624.66667	850	2,788.70833	900	2,952.75000	950	3,116.79167
1	2,463.90583	1	2,627.94750	1	2,791.98917	1	2,956.03083	1	3,120.07250
2	2,467.18667	2	2,631.22833	2	2,795.27000	2	2,959.31167	2	3,123.35333
3	2,470.46750	3	2,634.50917	3	2,798.55083	3	2,962.59250	3	3,126.63417
4	2,473.74833	4	2,637.79000	4	2,801.83167	4	2,965.87333	4	3,129.91500
5	2,477.02917	5	2,641.07083	5	2,805.11250	5	2,969.15417	5	3,133.19583
6	2,480.31000	6	2,644.35167	6	2,808.39333	6	2,972.43500	6	3,136.47667
7	2,483.59083	7	2,647.63250	7	2,811.67417	7	2,975.71583	7	3,139.75750
8	2,486.87167	8	2,650.91333	8	2,814.95500	8	2,978.99667	8	3,143.03833
9	2,490.15250	9	2,654.19417	9	2,818.23583	9	2,982.27750	9	3,146.31917
760	2,493.43333	810	2,657.47500	860	2,821.51667	910	2,985.55833	960	3,149.60000
1	2,496.71417	1	2,660.75583	1	2,824.79750	1	2,988.83917	1	3,152.88083
2	2,499.99500	2	2,664.03667	2	2,828.07833	2	2,992.12000	2	3,156.16167
3	2,503.27583	3	2,667.31750	3	2,831.35917	3	2,995.40083	3	3,159.44250
4	2,506.55667	4	2,670.59833	4	2,834.64000	4	2,998.68167	4	3,162.72333
5	2,509.83750	5	2,673.87917	5	2,837.92083	5	3,001.96250	5	3,166.00417
6	2,513.11833	6	2,677.16000	6	2,841.20167	6	3,005.24333	6	3,169.28500
7	2,516.39917	7	2,680.44083	7	2,844.48250	7	3,008.52417	7	3,172.56583
8	2,519.68000	8	2,683.72167	8	2,847.76333	8	3,011.80500	8	3,175.84667
9	2,522.96083	9	2,687.00250	9	2,851.04417	9	3,015.08583	9	3,179.12750
770	2,526.24167	820	2,690.28333	870	2,854.32500	920	3,018.36667	970	3,182.40833
1	2,529.52250	1	2,693.56417	1	2,857.60583	1	3,021.64750	1	3,185.68917
2	2,532.80333	2	2,696.84500	2	2,860.88667	2	3,024.92833	2	3,188.97000
3	2,536.08417	3	2,700.12583	3	2,864.16750	3	3,028.20917	3	3,192.25083
4	2,539.36500	4	2,703.40667	4	2,867.44833	4	3,031.49000	4	3,195.53167
5	2,542.64583	5	2,706.68750	5	2,870.72917	5	3,034.77083	5	3,198.81250
6	2,545.92667	6	2,709.96833	6	2,874.01000	6	3,038.05167	6	3,202.09333
7	2,549.20750	7	2,713.24917	7	2,877.29083	7	3,041.33250	7	3,205.37417
8	2,552.48833	8	2,716.53000	8	2,880.57167	8	3,044.61333	8	3,208.65500
9	2,555.76917	9	2,719.81083	9	2,883.85250	9	3,047.89417	9	3,211.93583
780	2,559.05000	830	2,723.09167	880	2,887.13333	930	3,051.17500	980	3,215.21667
1	2,562.33083	1	2,726.37250	1	2,890.41417	1	3,054.45583	1	3,218.49750
2	2,565.61167	2	2,729.65333	2	2,893.69500	2	3,057.73667	2	3,221.77833
3	2,568.89250	3	2,732.93417	3	2,896.97583	3	3,061.01750	3	3,225.05917
4	2,572.17333	4	2,736.21500	4	2,900.25667	4	3,064.29833	4	3,228.34000
5	2,575.45417	5	2,739.49583	5	2,903.53750	5	3,067.57917	5	3,231.62083
6	2,578.73500	6	2,742.77667	6	2,906.81833	6	3,070.86000	6	3,234.90167
7	2,582.01583	7	2,746.05750	7	2,910.09917	7	3,074.14083	7	3,238.18250
8	2,585.29667	8	2,749.33833	8	2,913.38000	8	3,077.42167	8	3,241.46333
9	2,588.57750	9	2,752.61917	9	2,916.66083	9	3,080.70250	9	3,244.74417
790	2,591.85833	840	2,755.90000	890	2,919.94167	940	3,083.98333	990	3,248.02500
1	2,595.13917	1	2,759.18083	1	2,923.22250	1	3,087.26417	1	3,251.30583
2	2,598.42000	2	2,762.46167	2	2,926.50333	2	3,090.54500	2	3,254.58667
3	2,601.70083	3	2,765.74250	3	2,929.78417	3	3,093.82583	3	3,257.86750
4	2,604.98167	4	2,769.02333	4	2,933.06500	4	3,097.10667	4	3,261.14833
5	2,608.26250	5	2,772.30417	5	2,936.34583	5	3,100.38750	5	3,264.42917
6	2,611.54333	6	2,775.58500	6	2,939.62667	6	3,103.66833	6	3,267.71000
7	2,614.82417	7	2,778.86583	7	2,942.90750	7	3,106.94917	7	3,270.99083
8	2,618.10500	8	2,782.14667	8	2,946.18833	8	3,110.23000	8	3,274.27167
9	2,621.38583	9	2,785.42750	9	2,949.46917	9	3,113.51083	9	3,277.55250

COMPLETED GEODETIC CONTROL IN THE UNITED STATES

The map facing this page (fig. 3) shows the location and extent of the completed geodetic control in the United States. The hachured areas in black represent the portion of the United States that has been covered by triangulation and traverse which have been computed rigidly on the North American datum and issued in published form. Following the numbers below, corresponding to the numbers shown on the map, are the titles of the publications that contain the published results. For example, the results of the published triangulation in the State of Oregon are contained in four different publications, as shown by the four different hachured areas in black. These areas are numbered 13, 19, 27, and 10. Referring to these numbers below, it will be seen that the results are contained in Special Publications Nos. 13, 31, 74, and 84. The publications listed below may be obtained from the Superintendent of Documents, Washington, D. C., upon the payment of a nominal sum.

1. Appendix 8, Report for 1888.
2. Appendix 8, Report for 1893
3. Appendix 6, Report for 1901.
4. Appendix EEE, Annual Report of the Chief of Engineers, 1902. (This publication is obtainable only from the Chief of Engineers, U. S. Army, Washington, D. C.)
5. Special Publication No. 88.
6. Appendix 9, Report for 1904.
7. Special Publication No. 86.
8. Appendix 5, Report for 1910.
9. Appendix 4, Report for 1911.
10. Special Publication No. 84.
11. Appendix 6, Report for 1911.
12. Special Publication No. 11.
13. Special Publication No. 13.
14. Special Publication No. 16.
15. Special Publication No. 17.
16. Special Publication No. 19.
17. Special Publication No. 24.
18. Special Publication No. 30.
19. Special Publication No. 31.
20. Report on the Triangulation of Greater New York. (This publication is obtainable only from the city engineer, New York City.)
21. Report on Plan of Sewerage for the City of Cincinnati. (This publication is obtainable only from the city engineer, Cincinnati, Ohio.)
22. Special Publications Nos. 43 and 45.
23. Special Publication No. 46.
24. Special Publication No. 54.
25. Special Publication No. 62.
26. Special Publication No. 70.
27. Special Publication No. 74.
28. Special Publication No. 76.
29. Special Publication No. 78.
30. Special Publication No. 79.
31. Special Publication No. 101.
32. Special Publication No. 114.

The hachured areas in red on the map represent the portion of the United States that has been covered by triangulation and traverse which have been rigidly computed on the North American datum but which have not yet been issued in published form.

The heavy black lines on the map indicate the published precise level net of the United States. The red lines indicate the portion of the precise level net of the United States not yet issued in published form.

It is impracticable to designate on the map the publications containing the results of precise leveling by this bureau. However, the map does indicate where lines of levels have been run, and if the published results are desired for any particular locality, and this bureau is so advised, the proper publications will be selected.

UNITED STATES COAST AND GEODETIC SURVEY

Graphic index sheet showing: (1) Areas in the United States covered by published and unpublished triangulation and traverse which have been computed rigidly on the North American datum. (2) Net of published and unpublished precise leveling in the United States. January, 1925

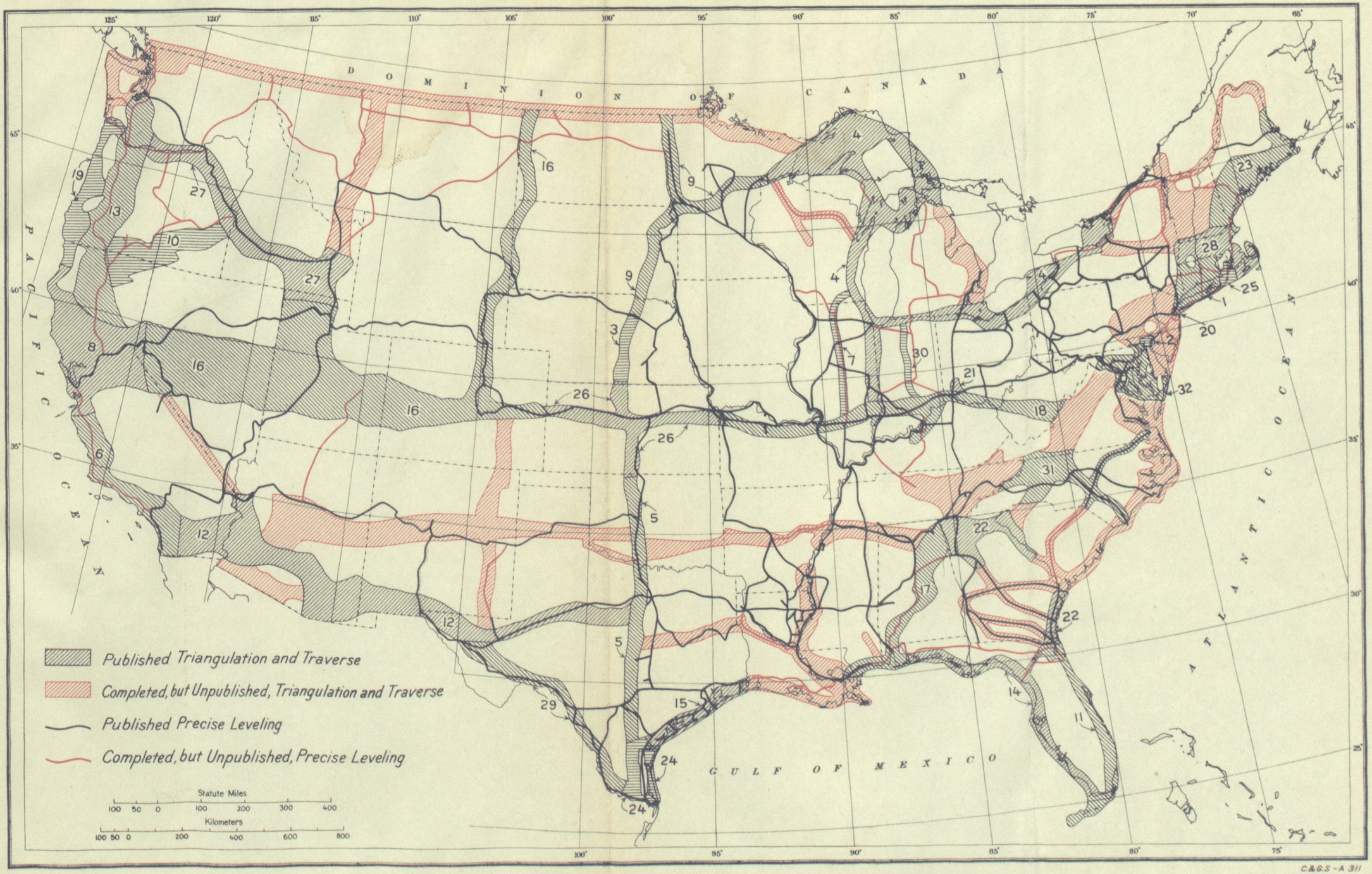

FIG. 3

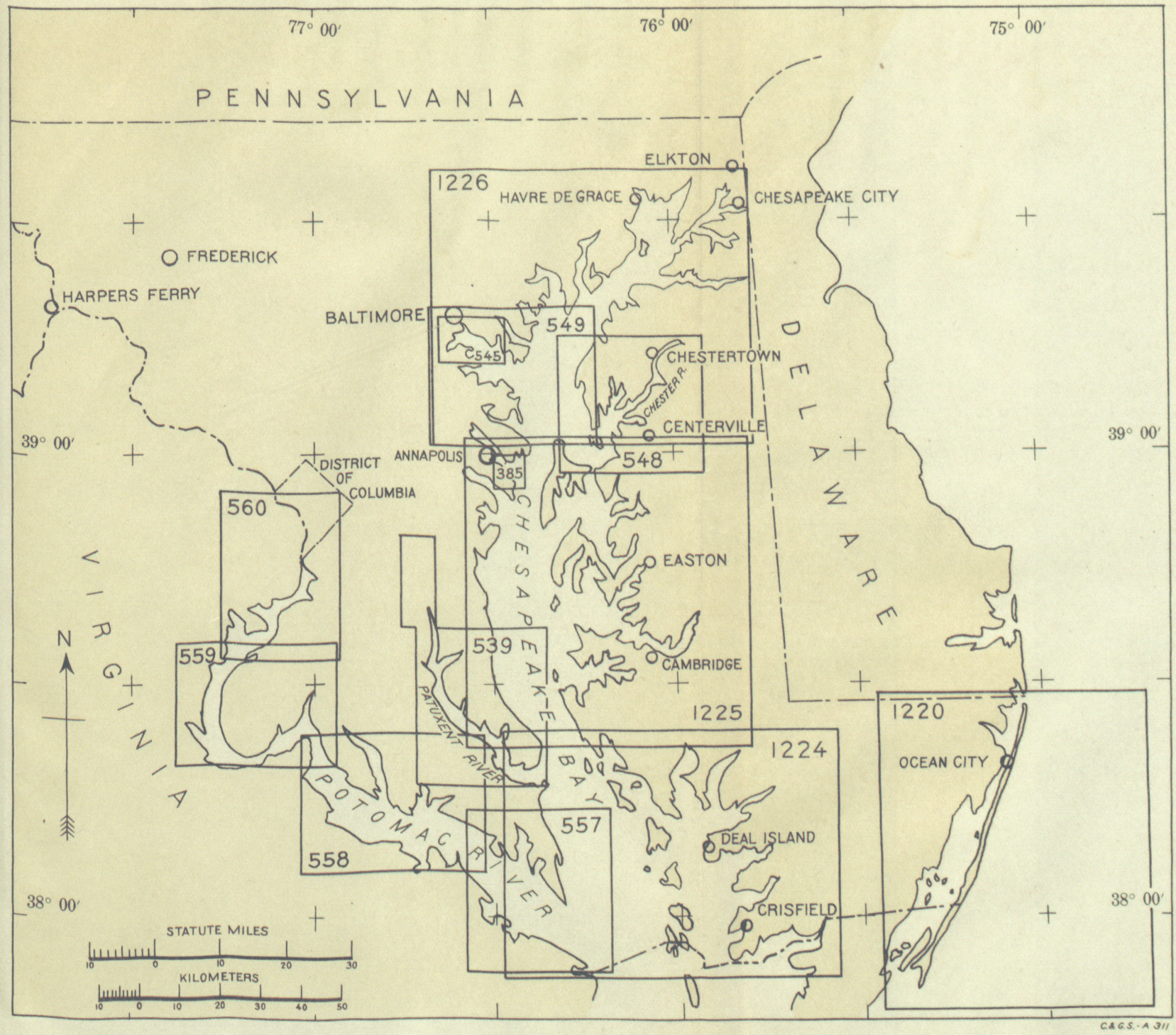

Fig. 4 — INDEX MAP OF MARYLAND SHOWING BOUNDARIES OF CHARTS PUBLISHED BY THE U.S. COAST AND GEODETIC SURVEY

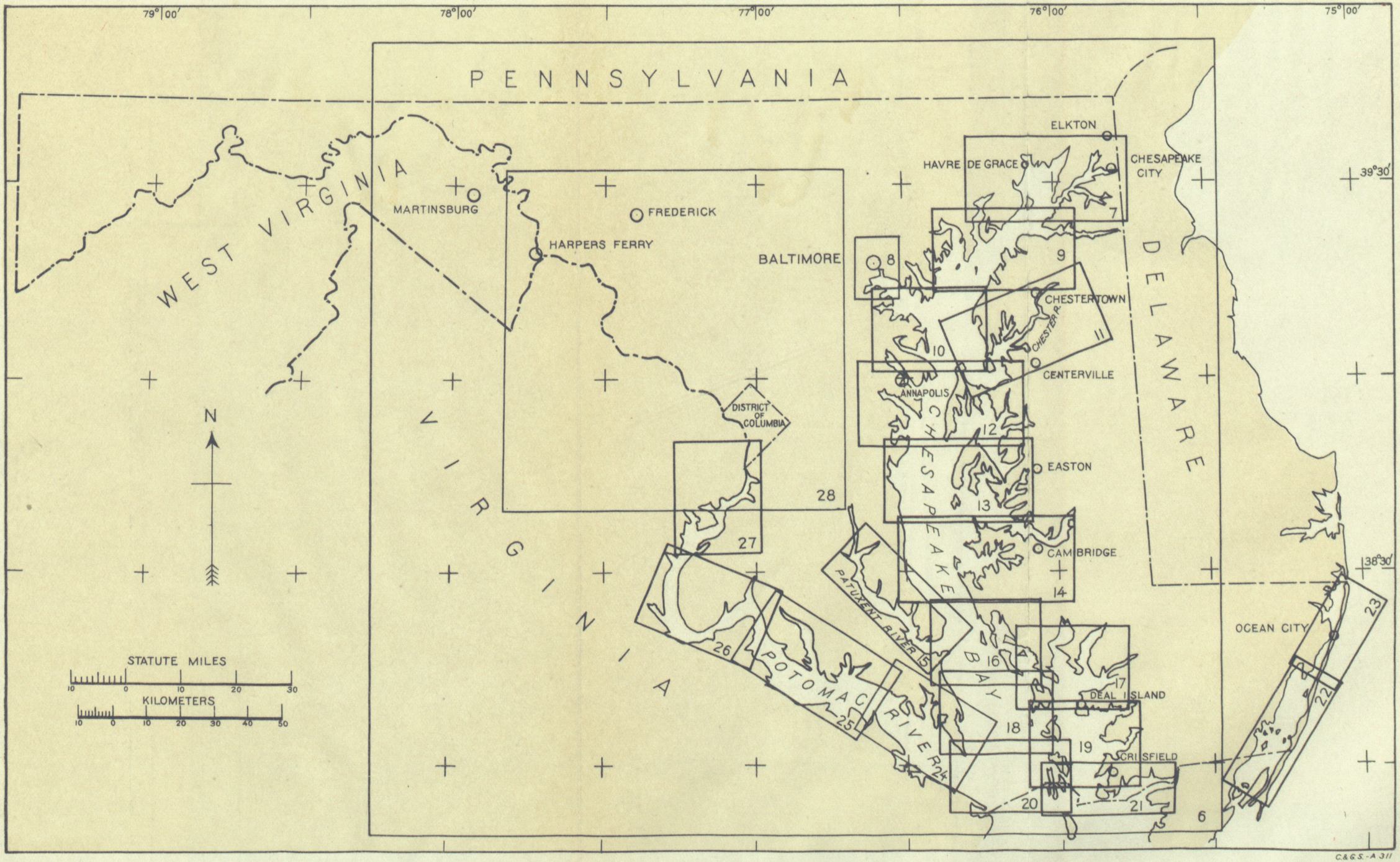

Fig. 5 — INDEX MAP OF MARYLAND SHOWING BOUNDARIES OF SKETCHES. FIGS. 6 TO 28.

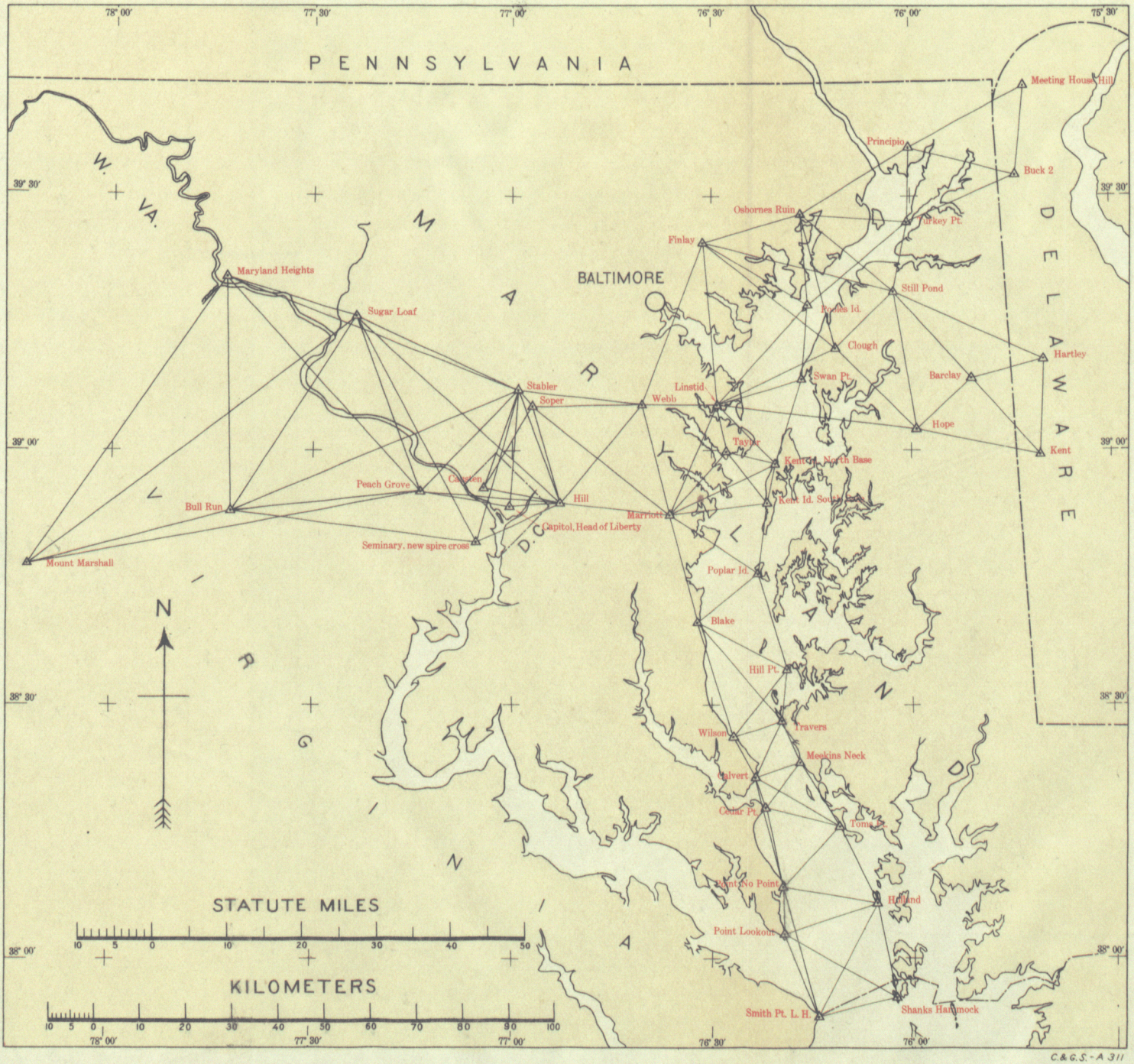

Fig. 6 — PRECISE TRIANGULATION IN THE STATE OF MARYLAND

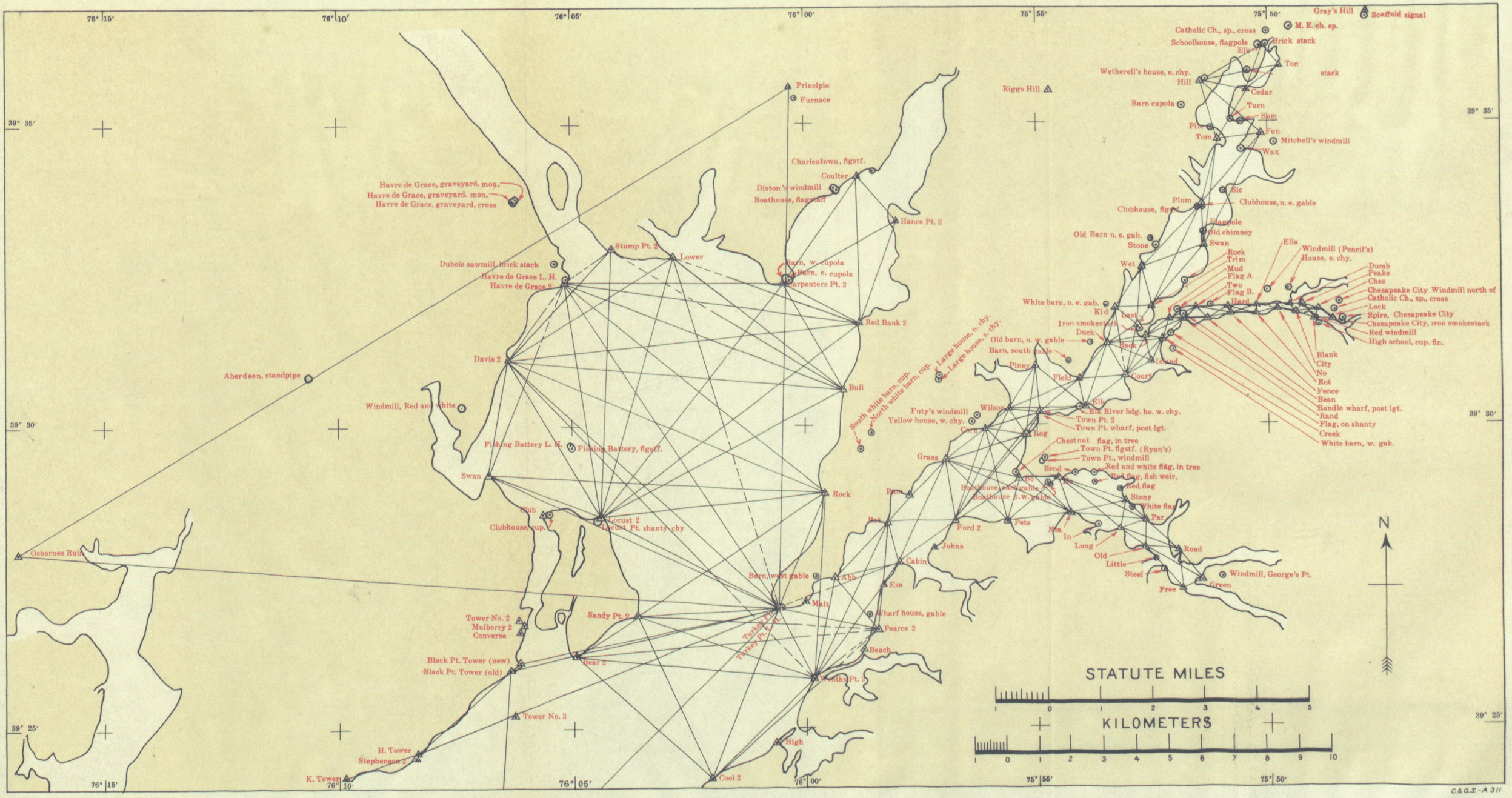

Fig. 7 — UPPER END OF CHESAPEAKE BAY, NORTHEAST, ELK, AND BOHEMIA RIVERS, AND BACK CREEK.

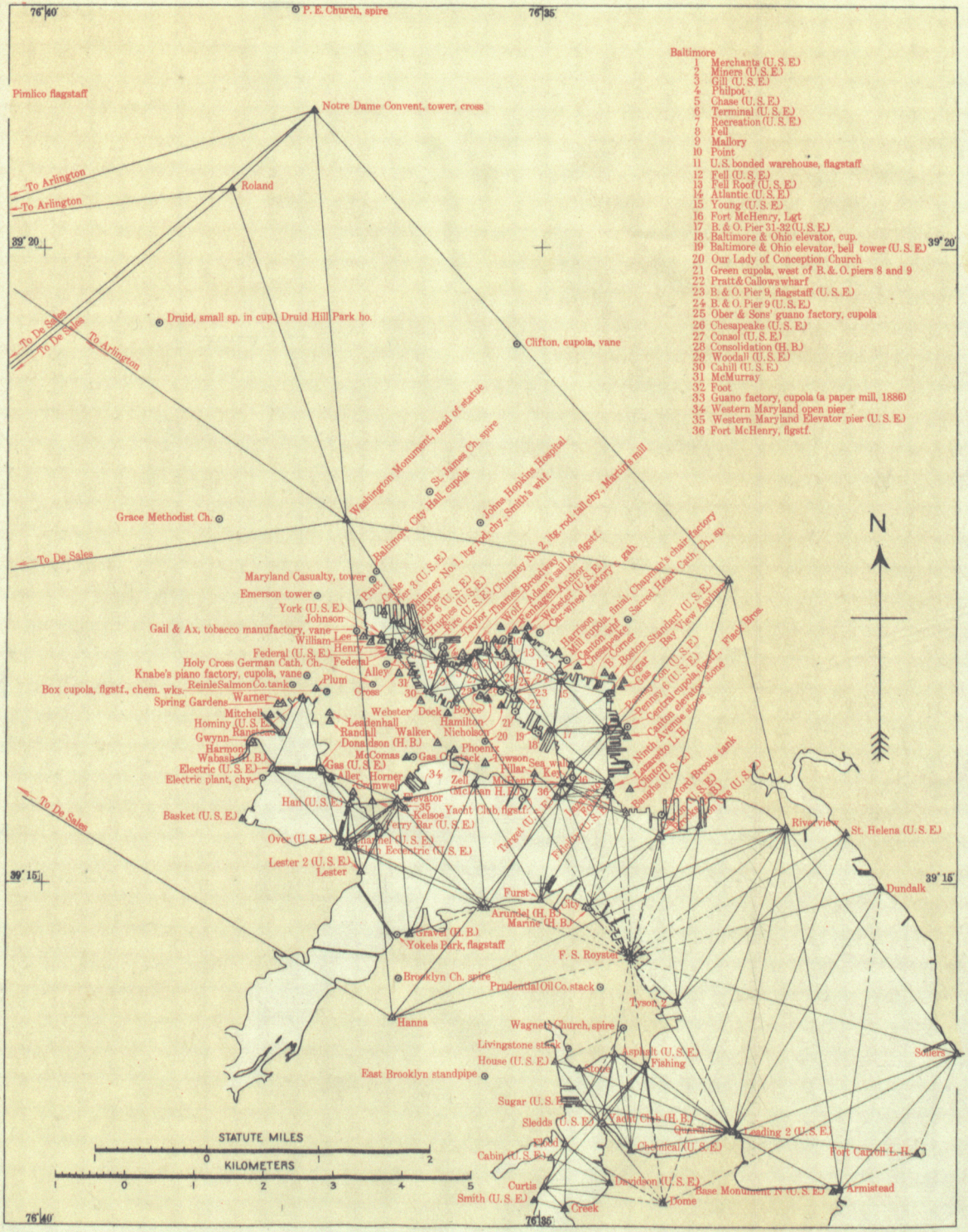

Fig. 8— BALTIMORE AND VICINITY

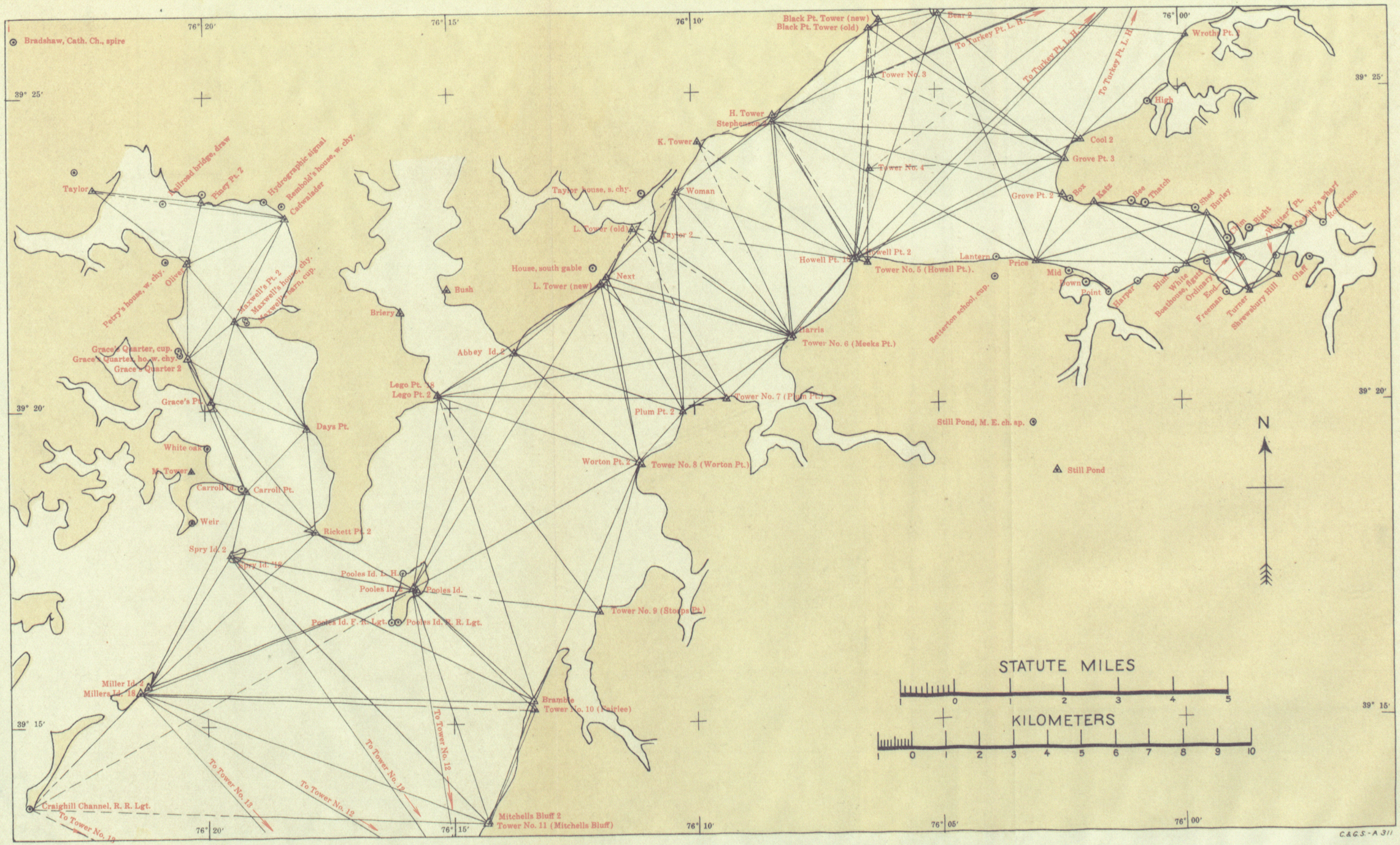

Fig. 9 — CHESAPEAKE BAY, SASSAFRAS, AND GUNPOWDER RIVERS

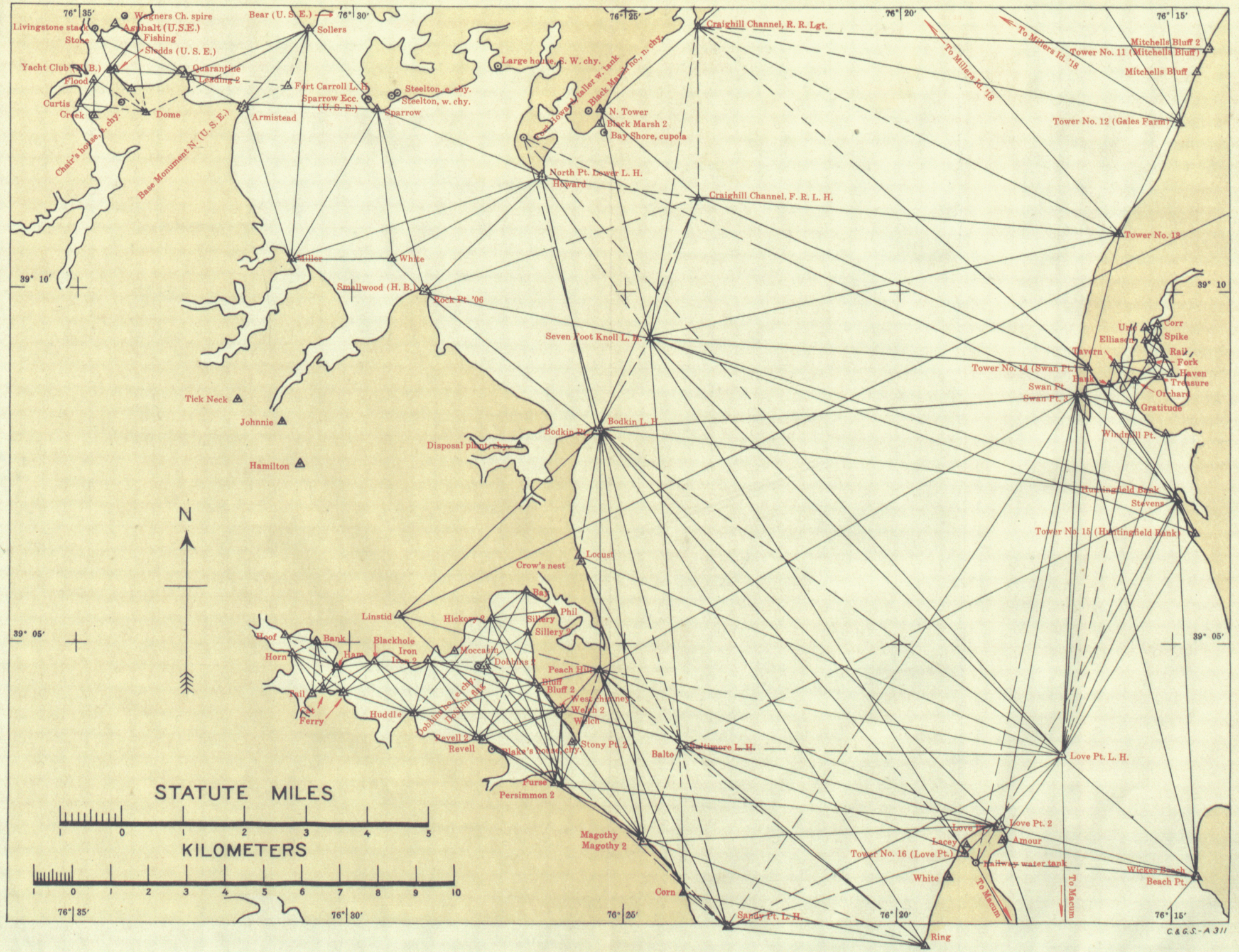

Fig. 10 — CHESAPEAKE BAY, MAGOTHY RIVER, AND PARTS OF PATAPSCO AND CHESTER RIVERS.

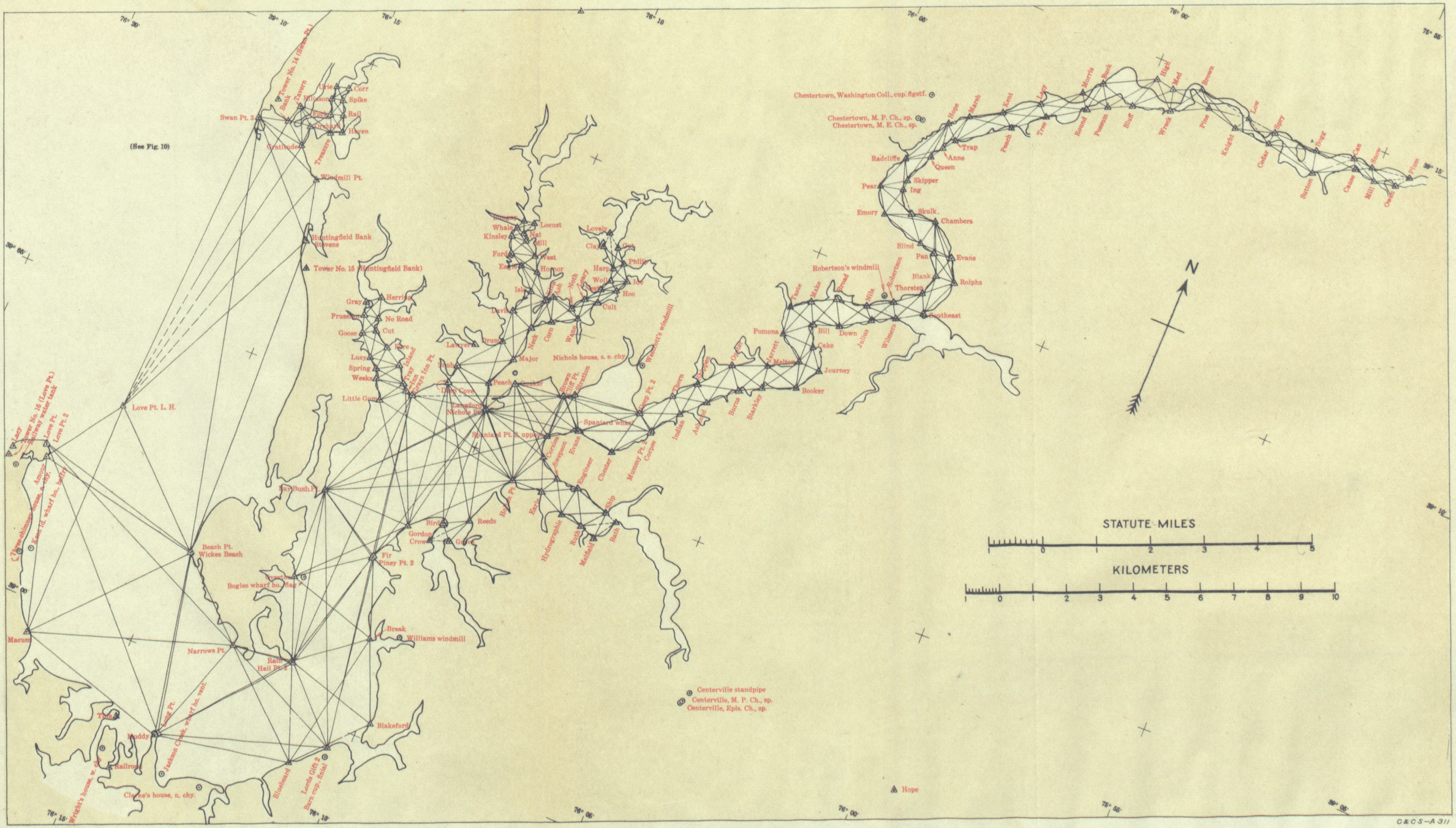

Fig. 11 — CHESTER RIVER

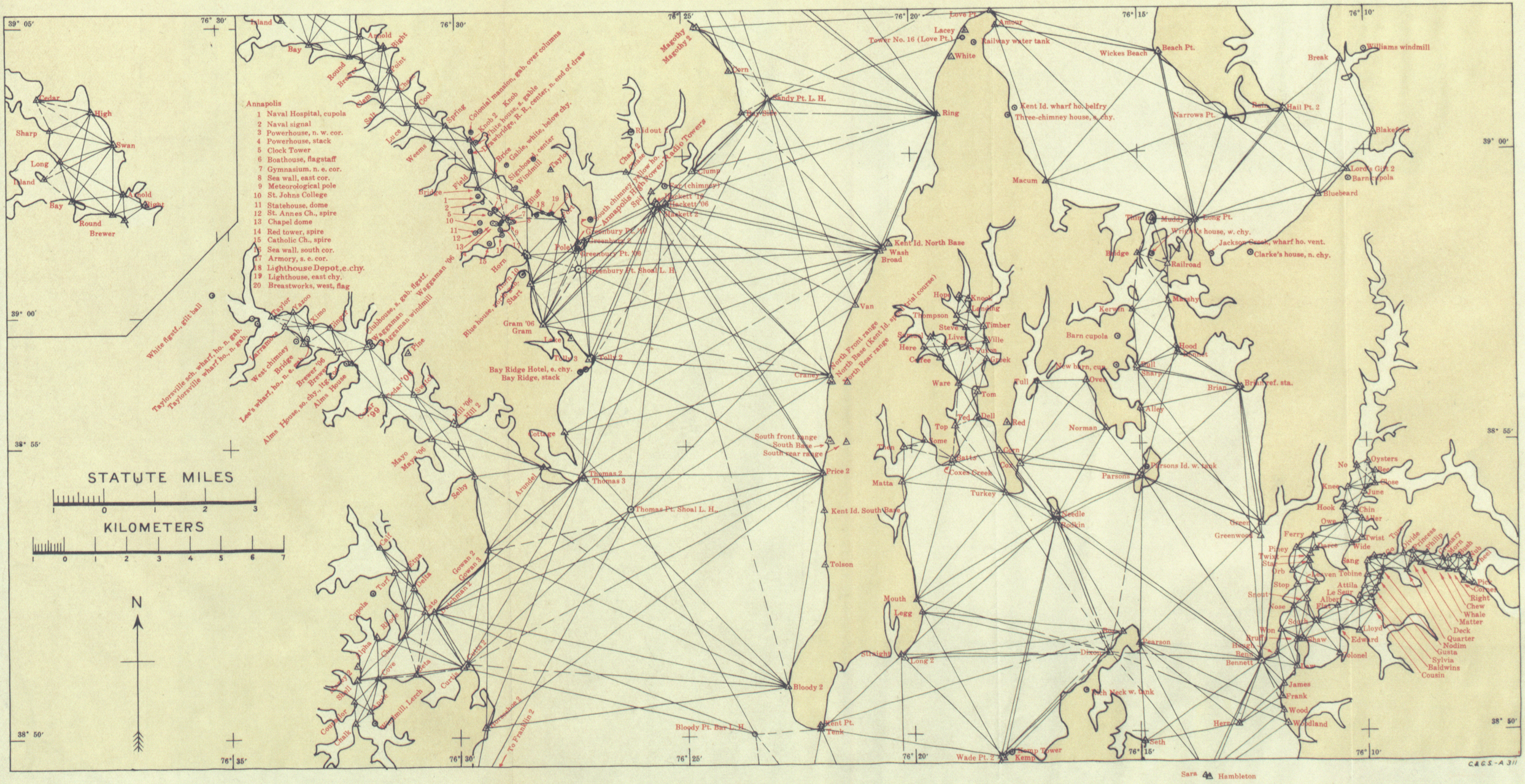

Fig. 12 — CHESAPEAKE BAY, SEVERN, SOUTH, WEST, AND WYE RIVERS, AND EASTERN BAY.

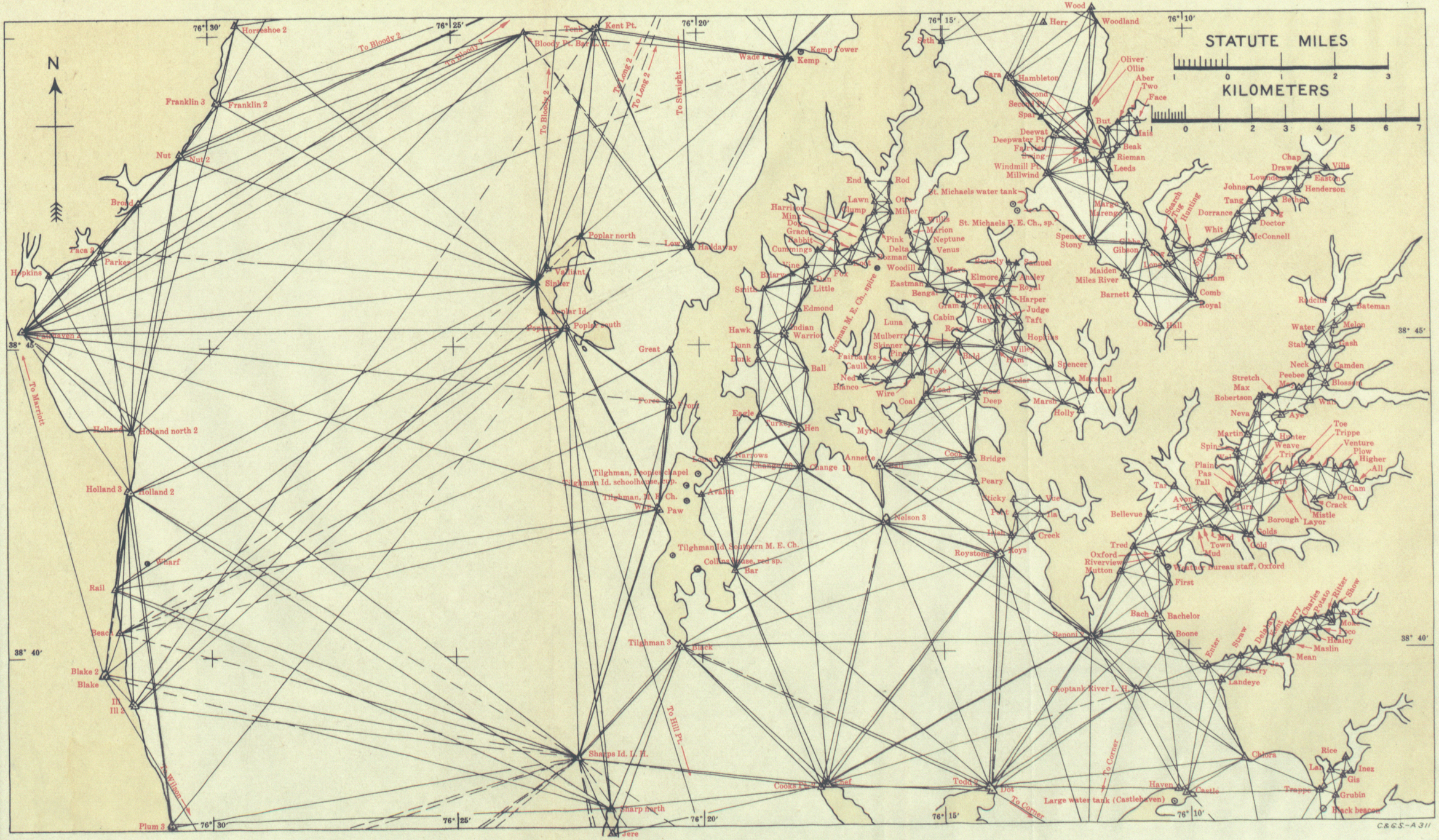

Fig. 13 — CHESAPEAKE BAY, HERRING BAY, MILES, AND TRED AVON RIVERS, HARRIS, AND ISLAND CREEKS.

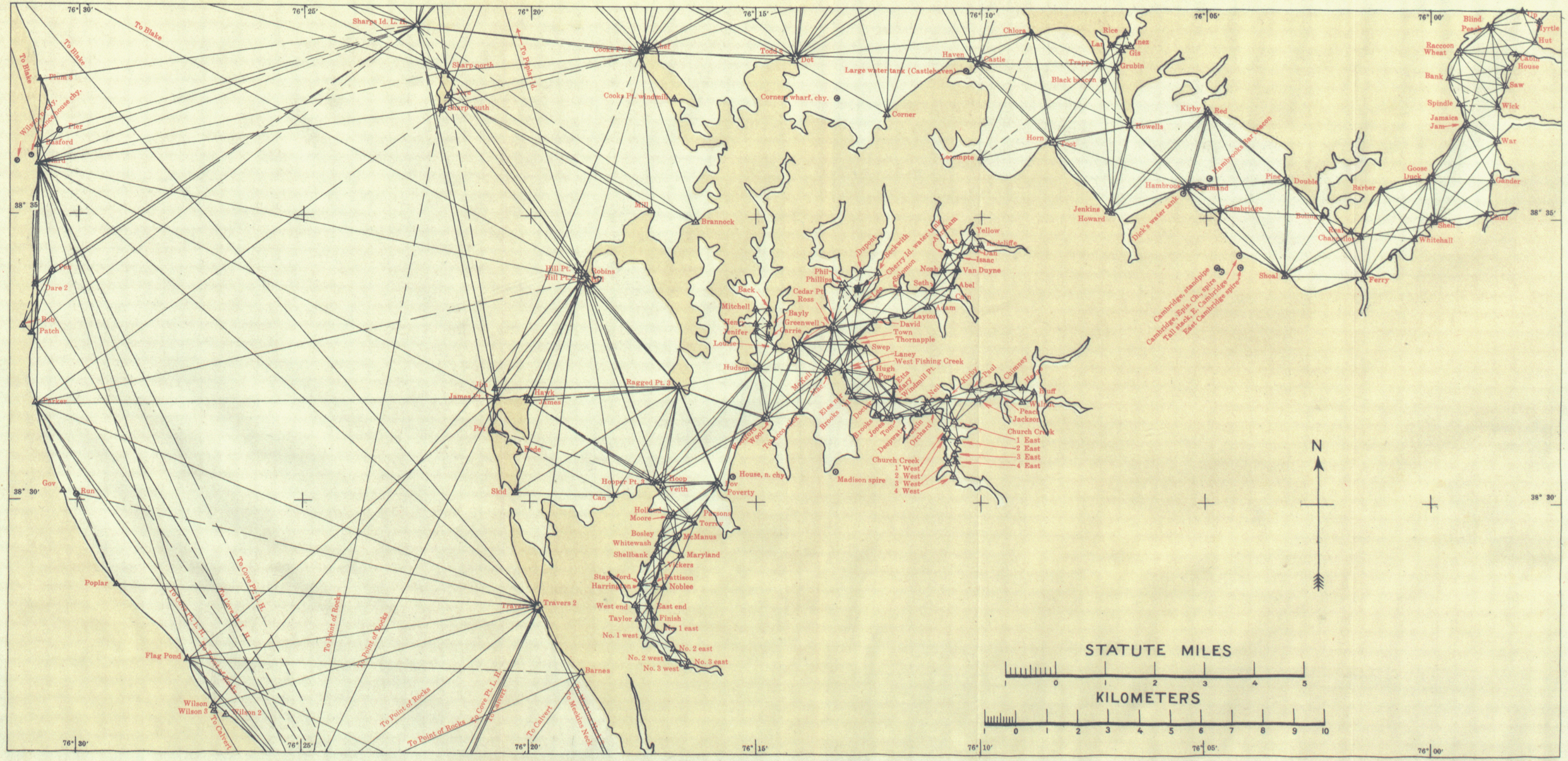

Fig. 14 — CHESAPEAKE BAY, CHOPTANK, AND LITTLE CHOPTANK RIVERS, FISHING, AND SLAUGHTER CREEKS.

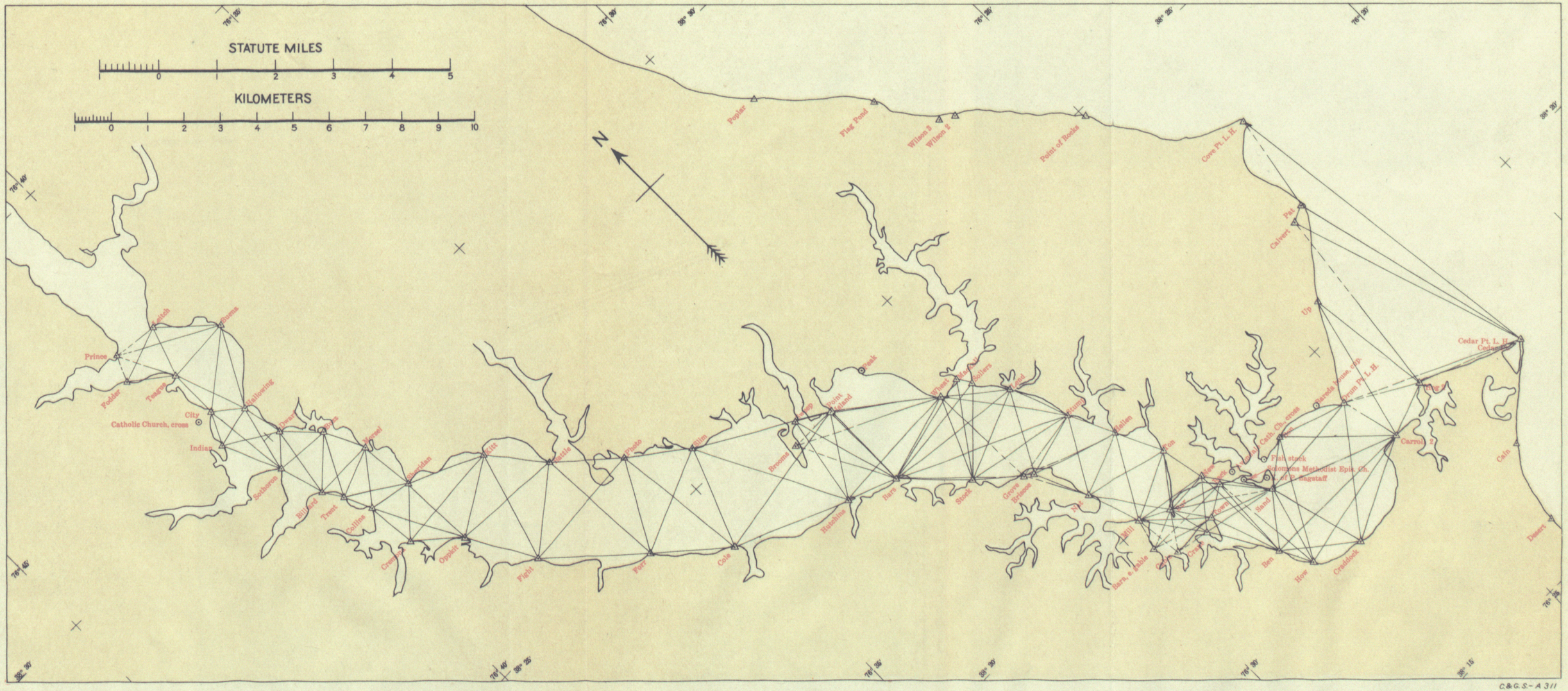

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Fig. 15— PATUXENT RIVER

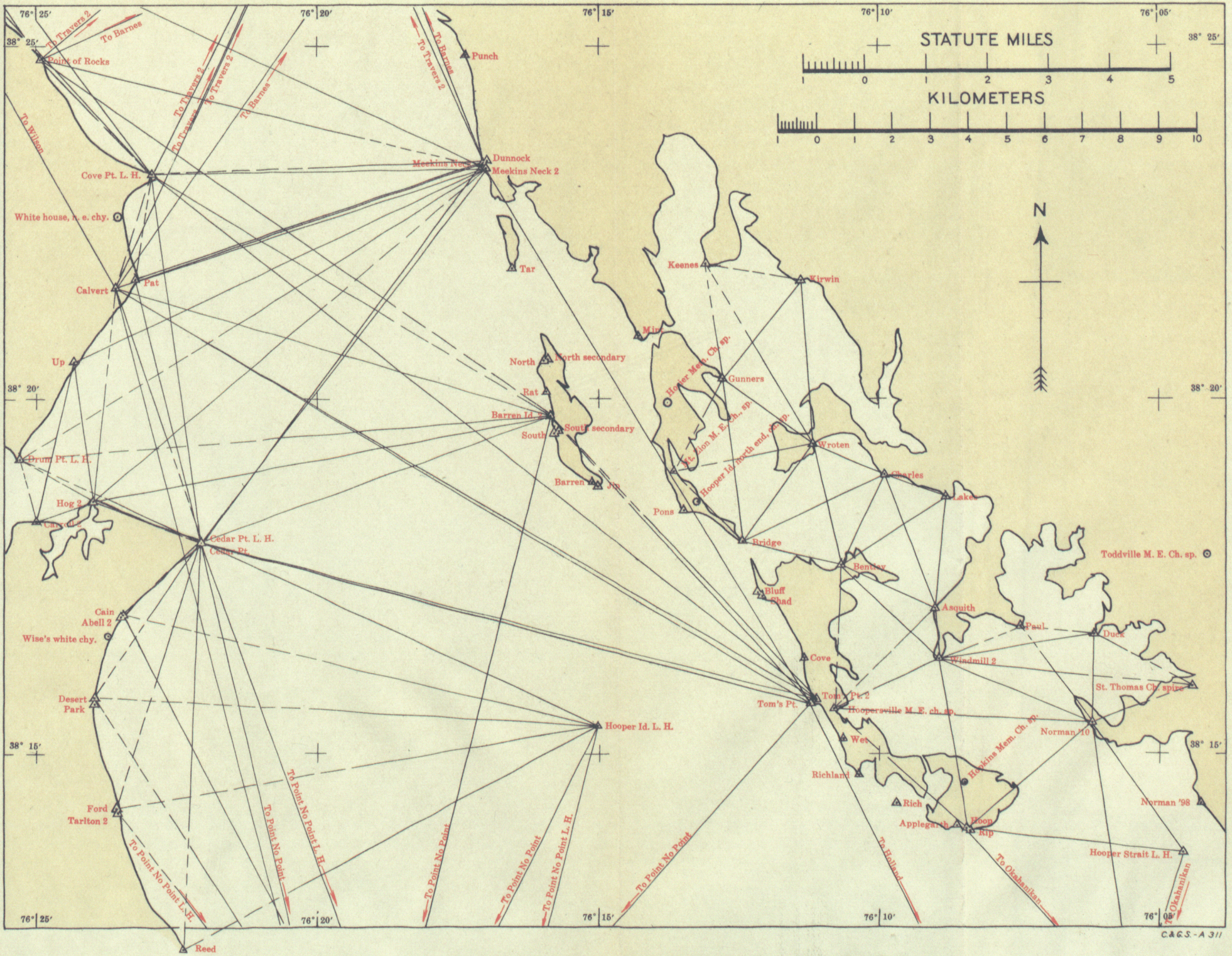

Fig. 16 — CHESAPEAKE BAY AND HONGA RIVER

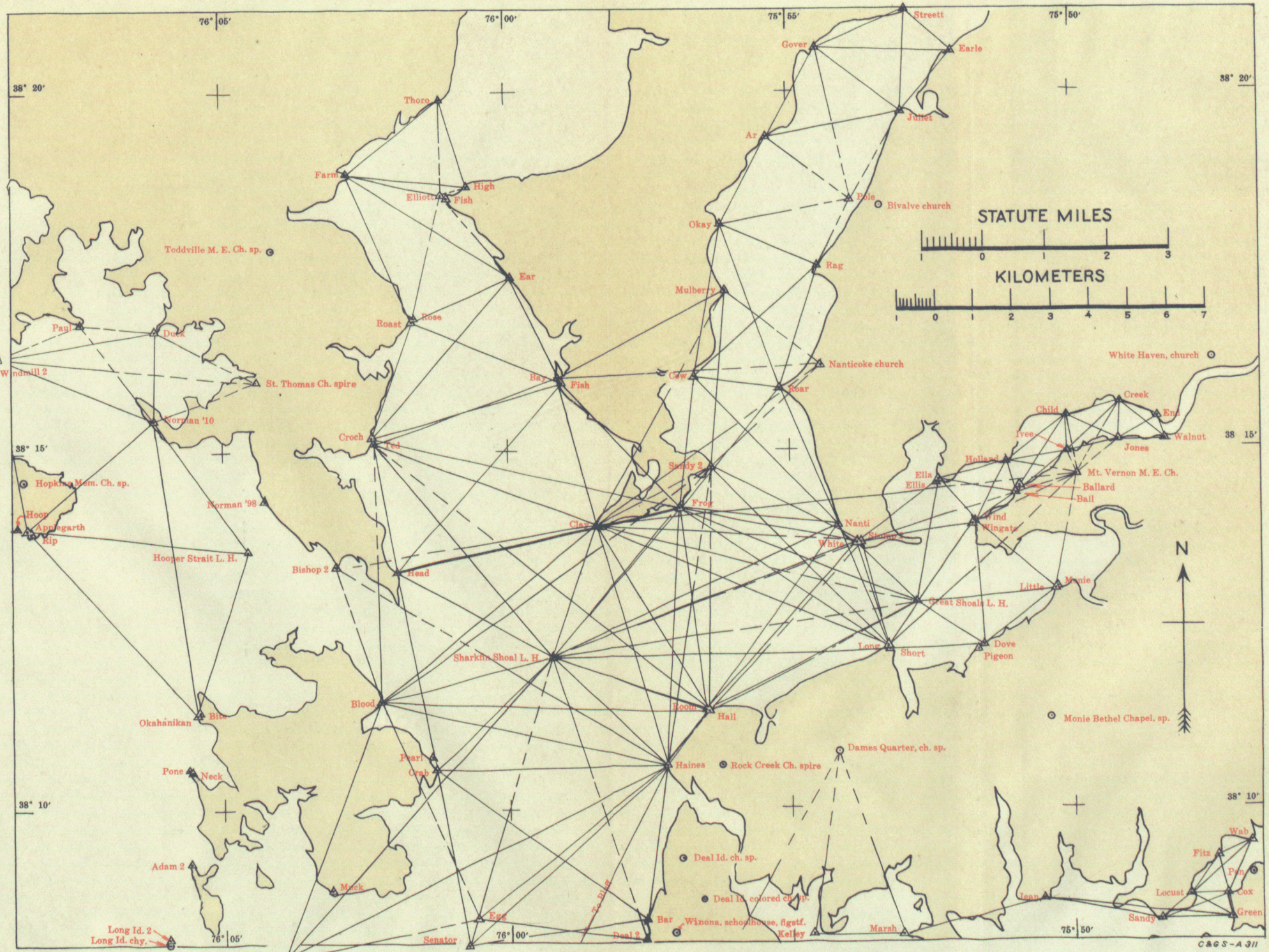

Fig. 17 — HOOPER STRAIT, FISHING BAY, NANTICOKE, AND WICOMICO RIVERS.

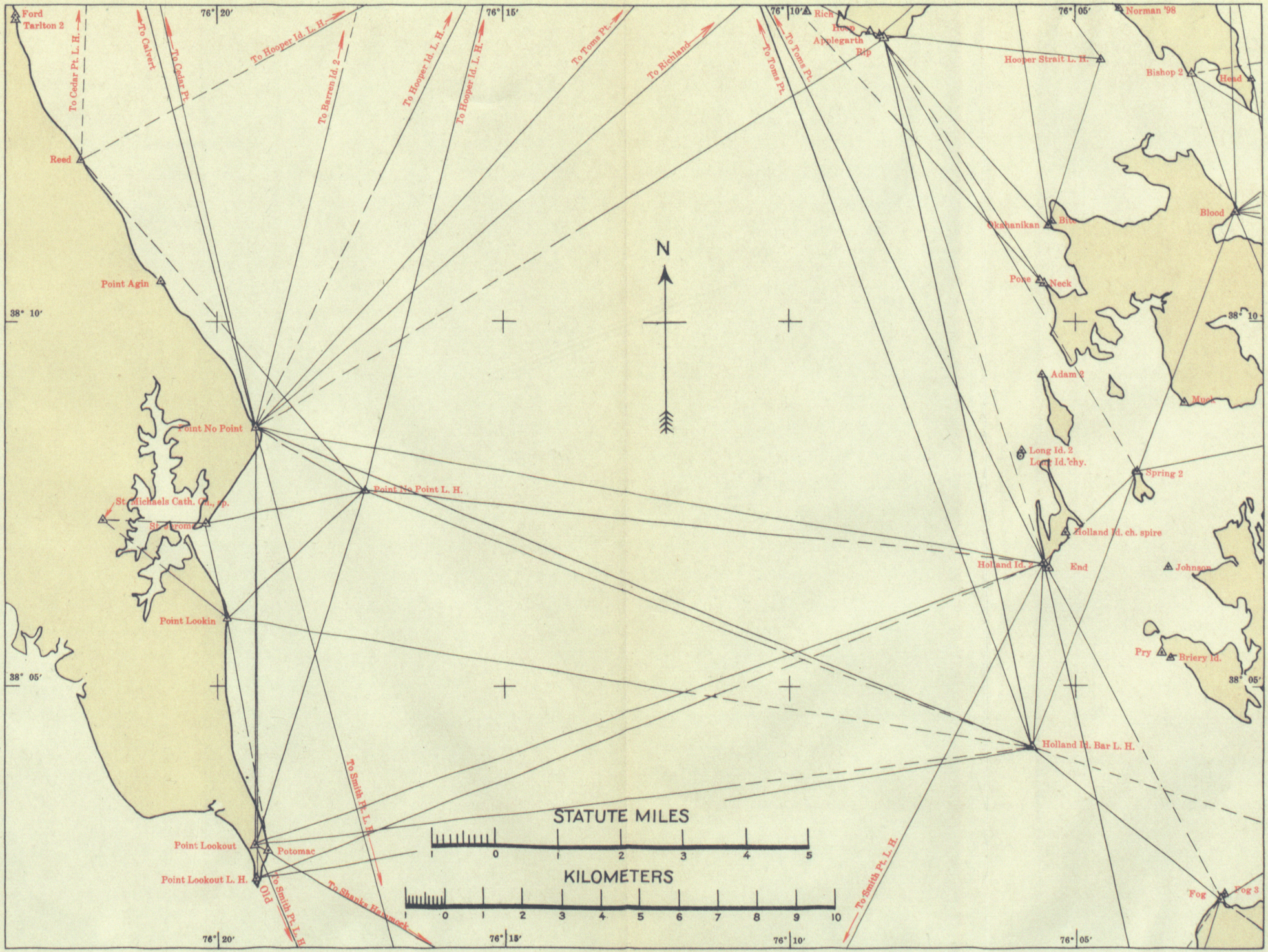

Fig. 18 — CHESAPEAKE BAY, JUST NORTH OF POTOMAC RIVER.

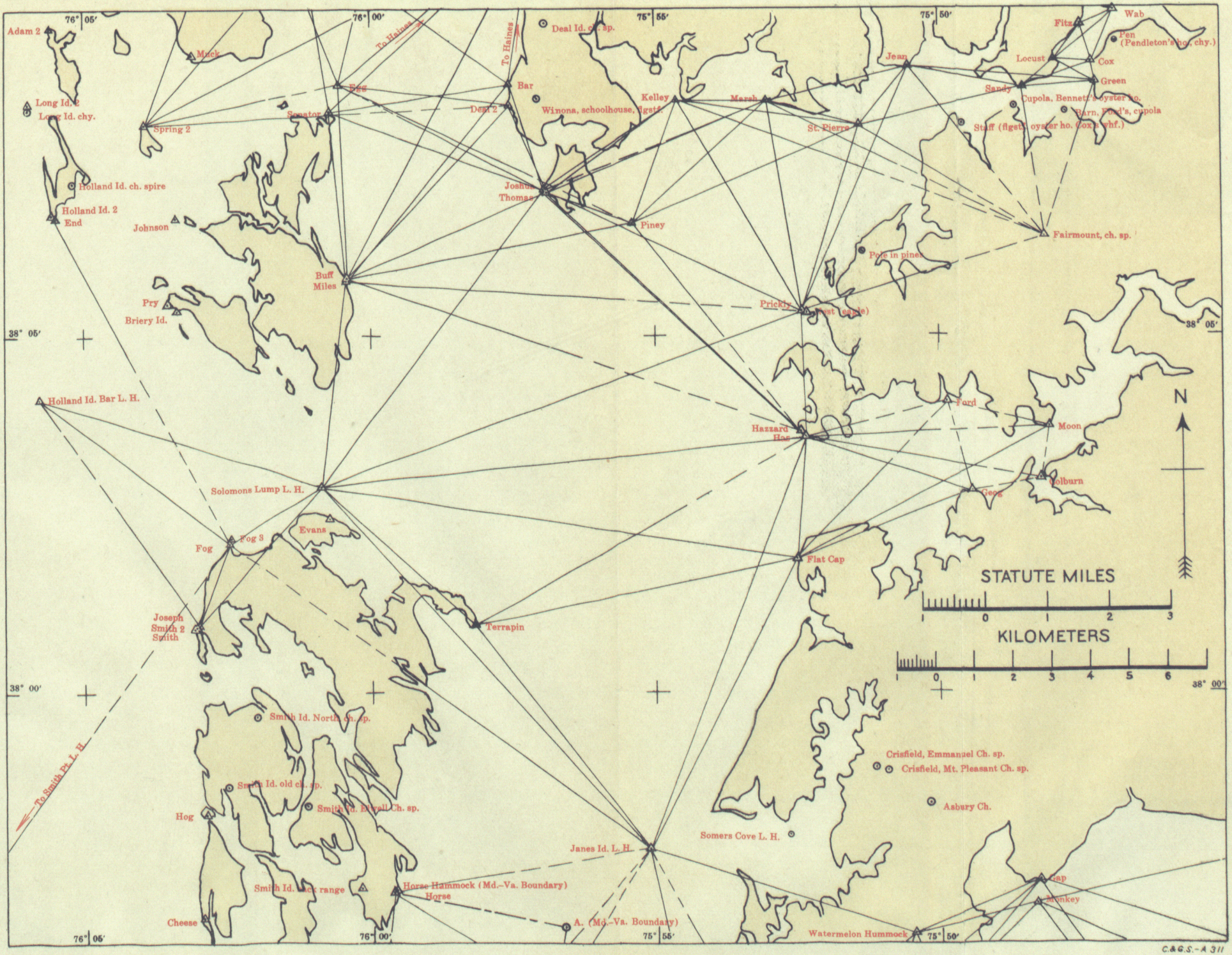

Fig. 19 — TANGIER SOUND, MANOKIN, AND BIG ANNEMESSEX RIVERS.

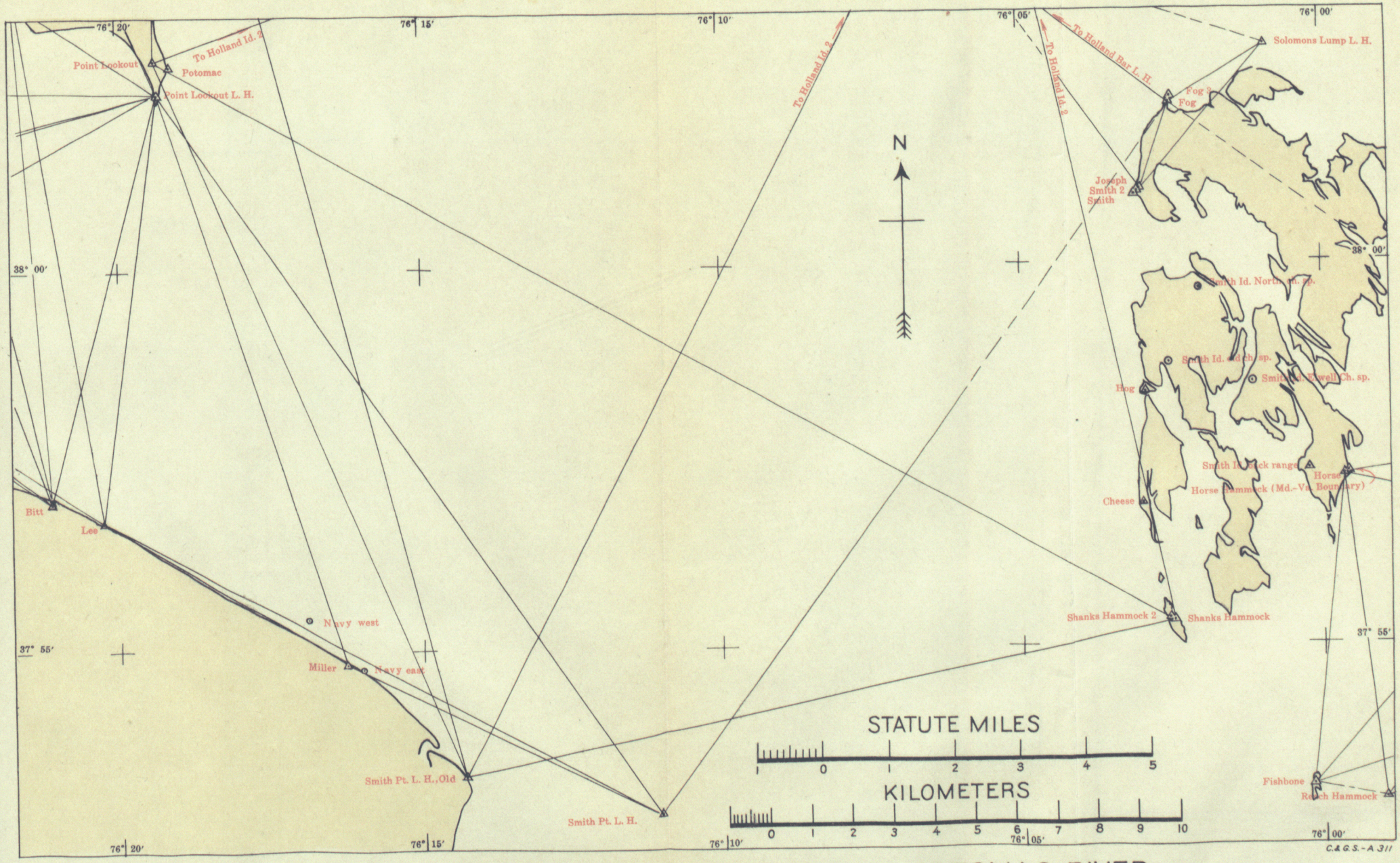

Fig. 20 — CHESAPEAKE BAY AT MOUTH OF POTOMAC RIVER

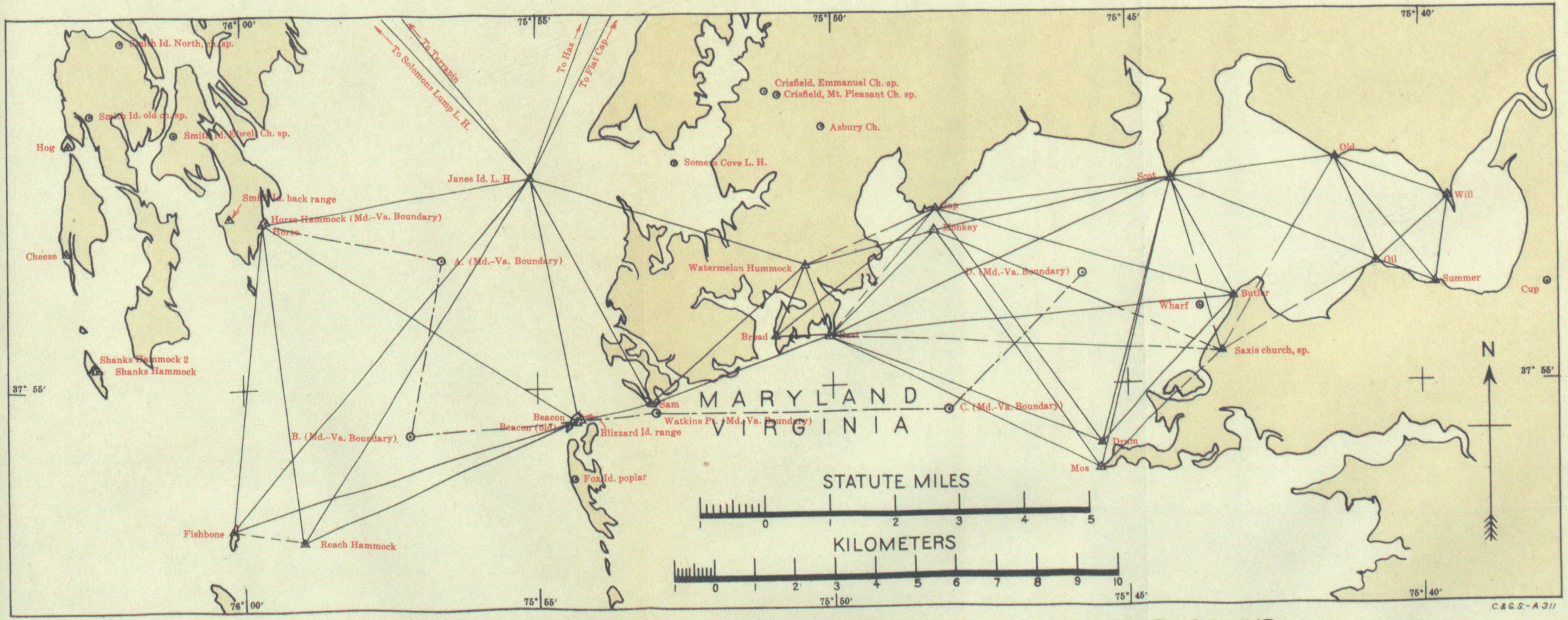

Fig. 21 — POCOMOKE SOUND AND LOWER END OF TANGIER SOUND

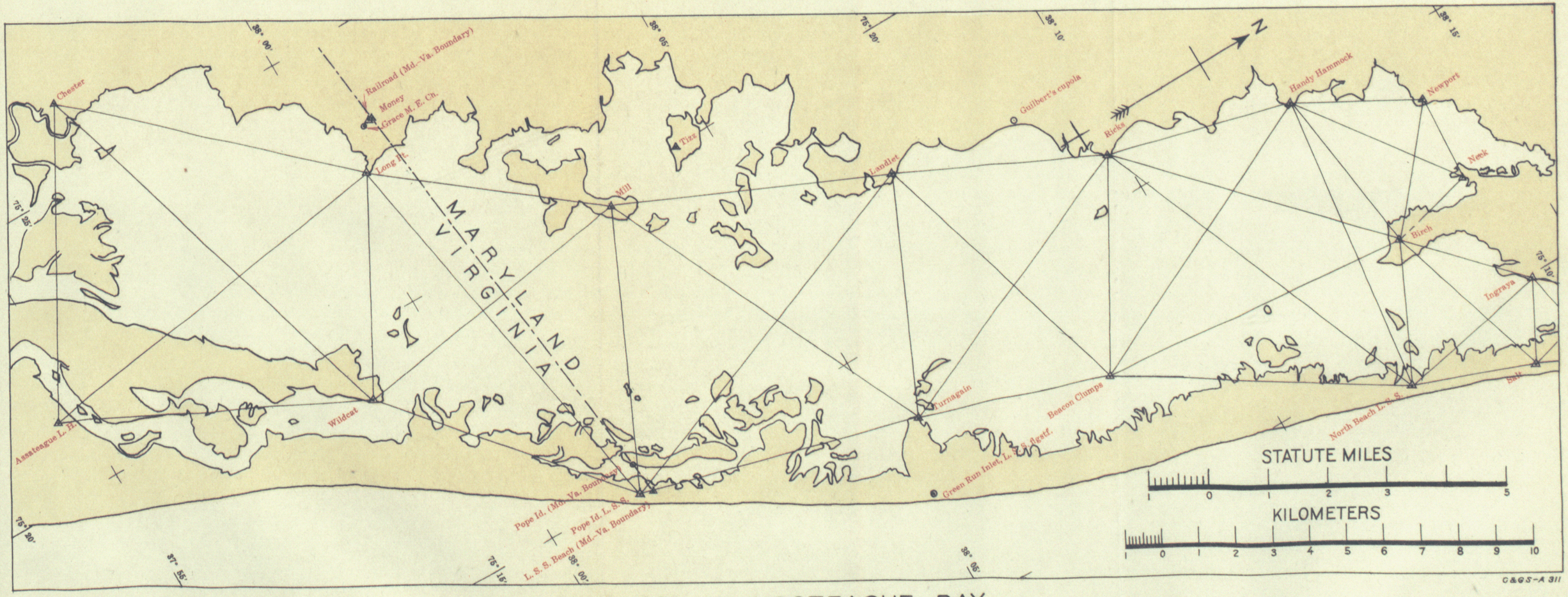

Fig. 22 — CHINCOTEAGUE BAY

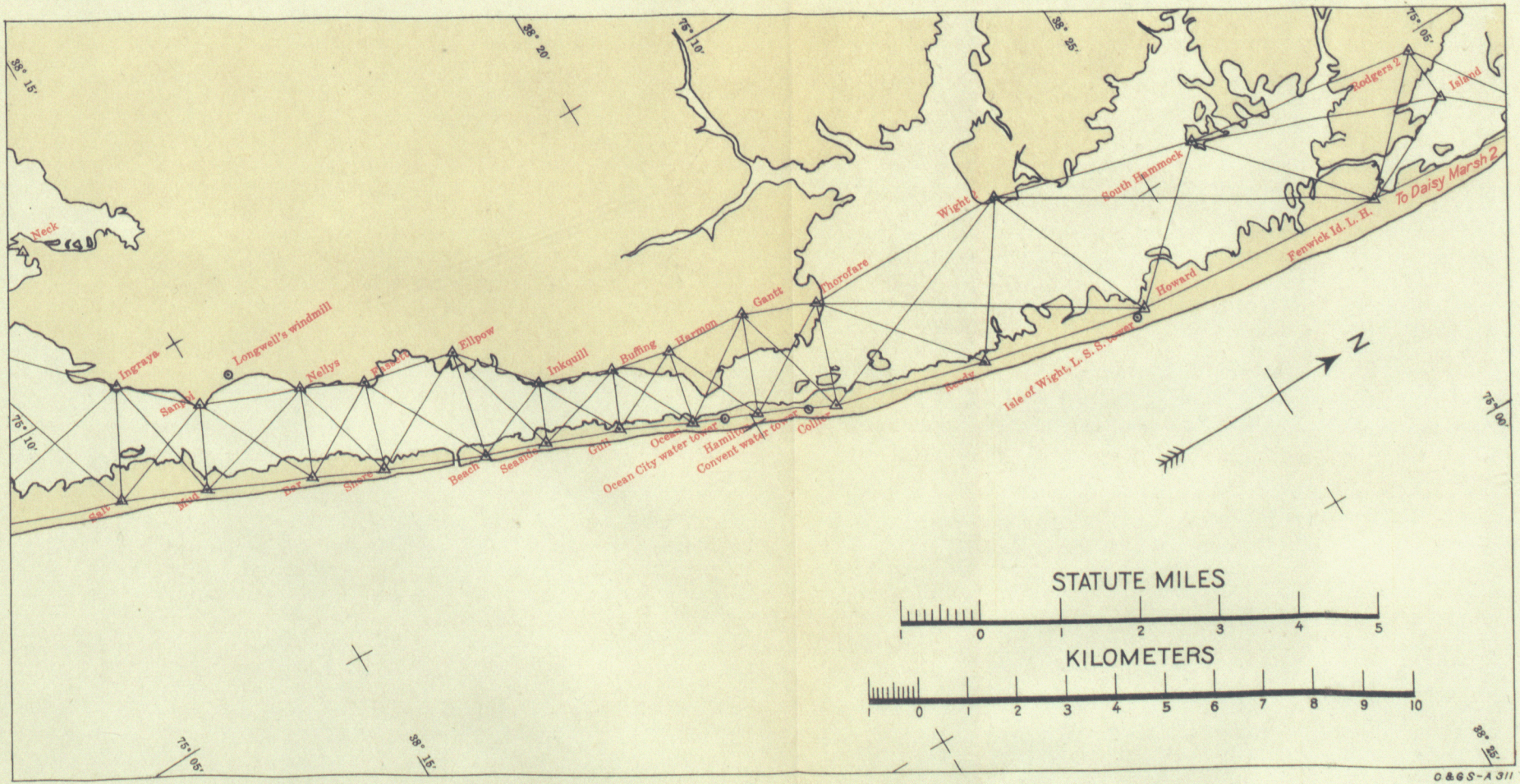

Fig. 23 — SINEPUXENT, ISLE OF WIGHT, AND ASSOWOMAN BAYS

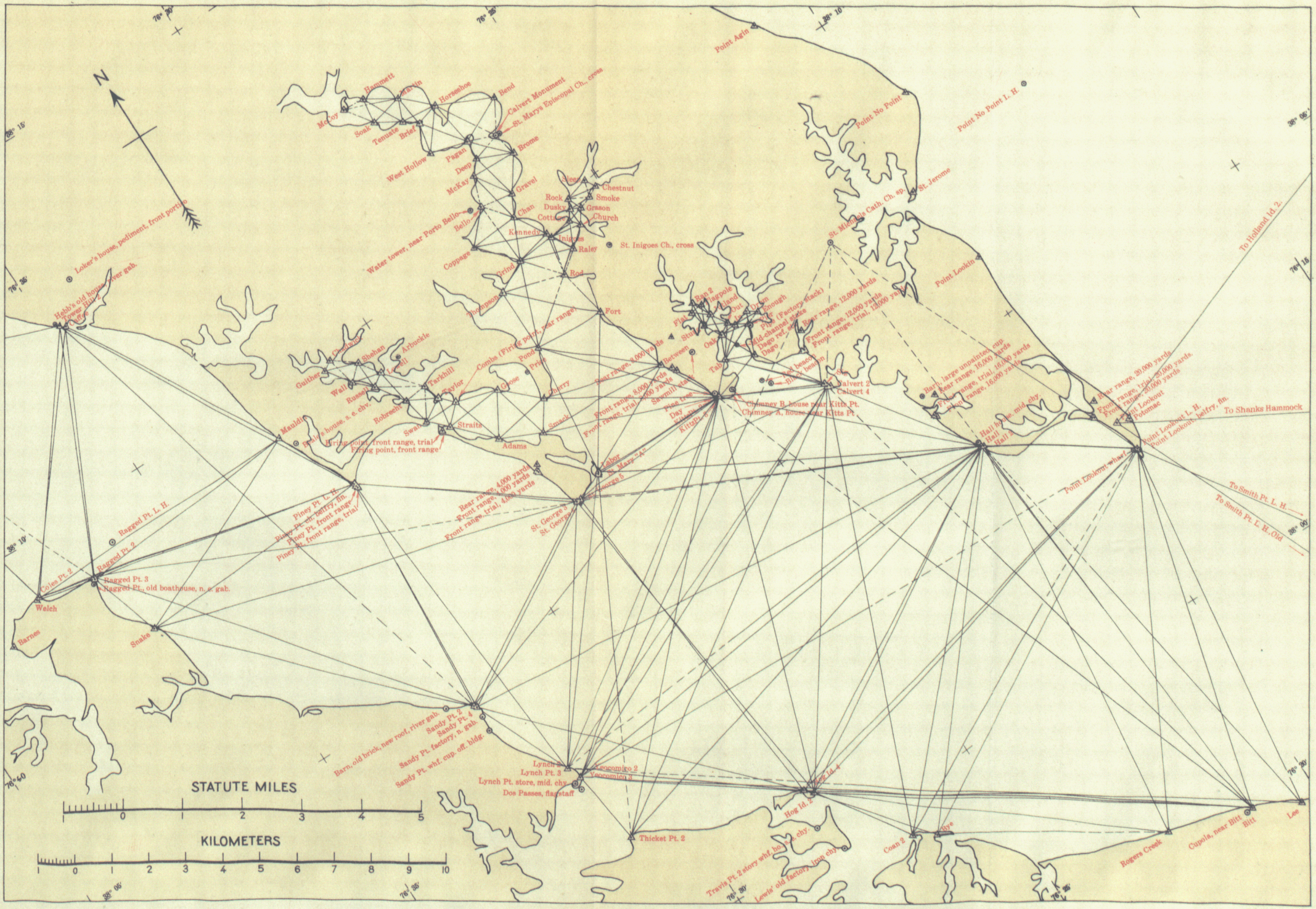

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Fig. 24— POTOMAC, ST. MARYS, AND ST. GEORGE RIVERS, SMITH, AND ST. INIGOES CREEKS.

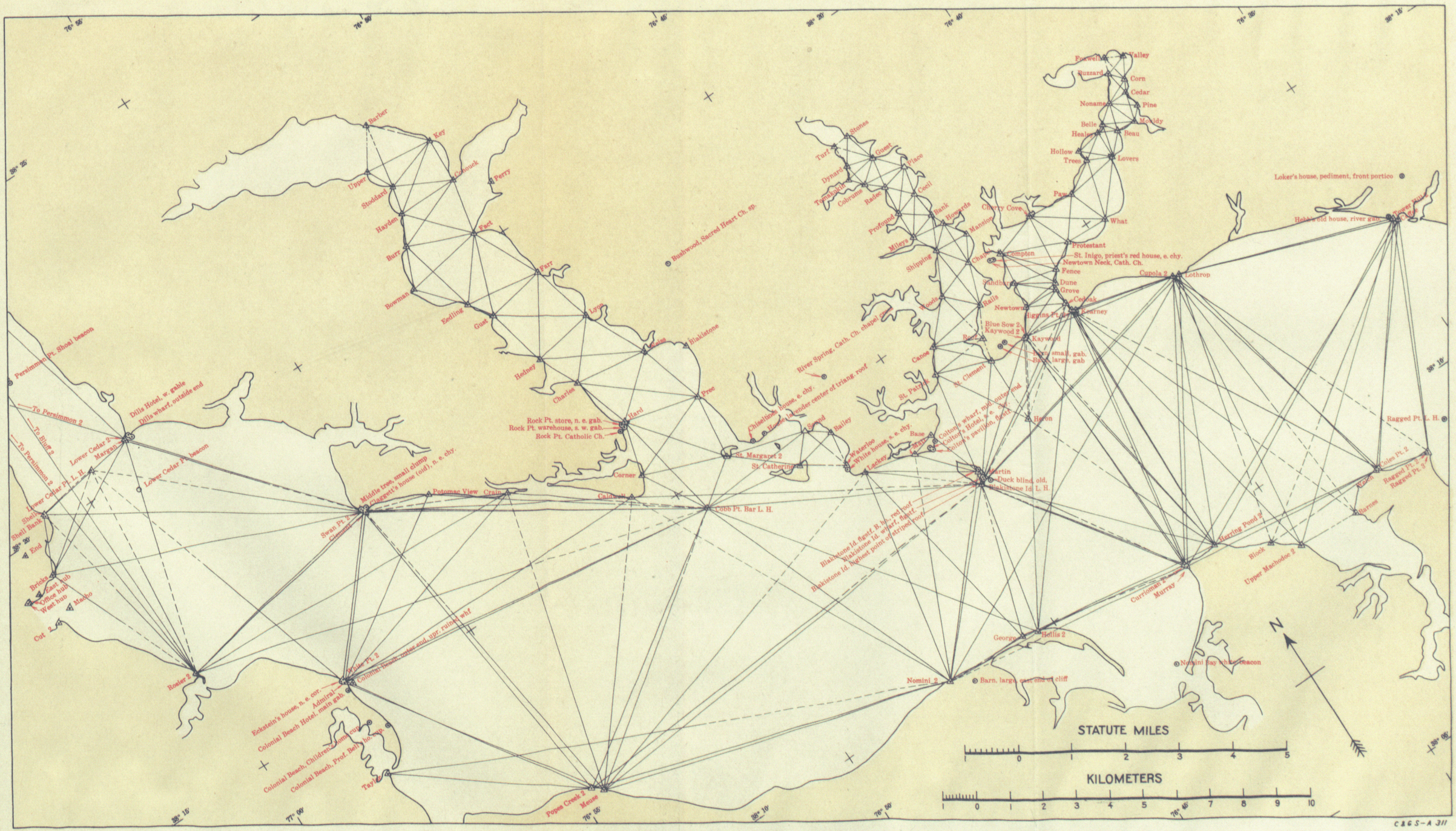

Fig. 25 — POTOMAC AND WICOMICO RIVERS, ST. CLEMENT AND BRETONS BAYS.

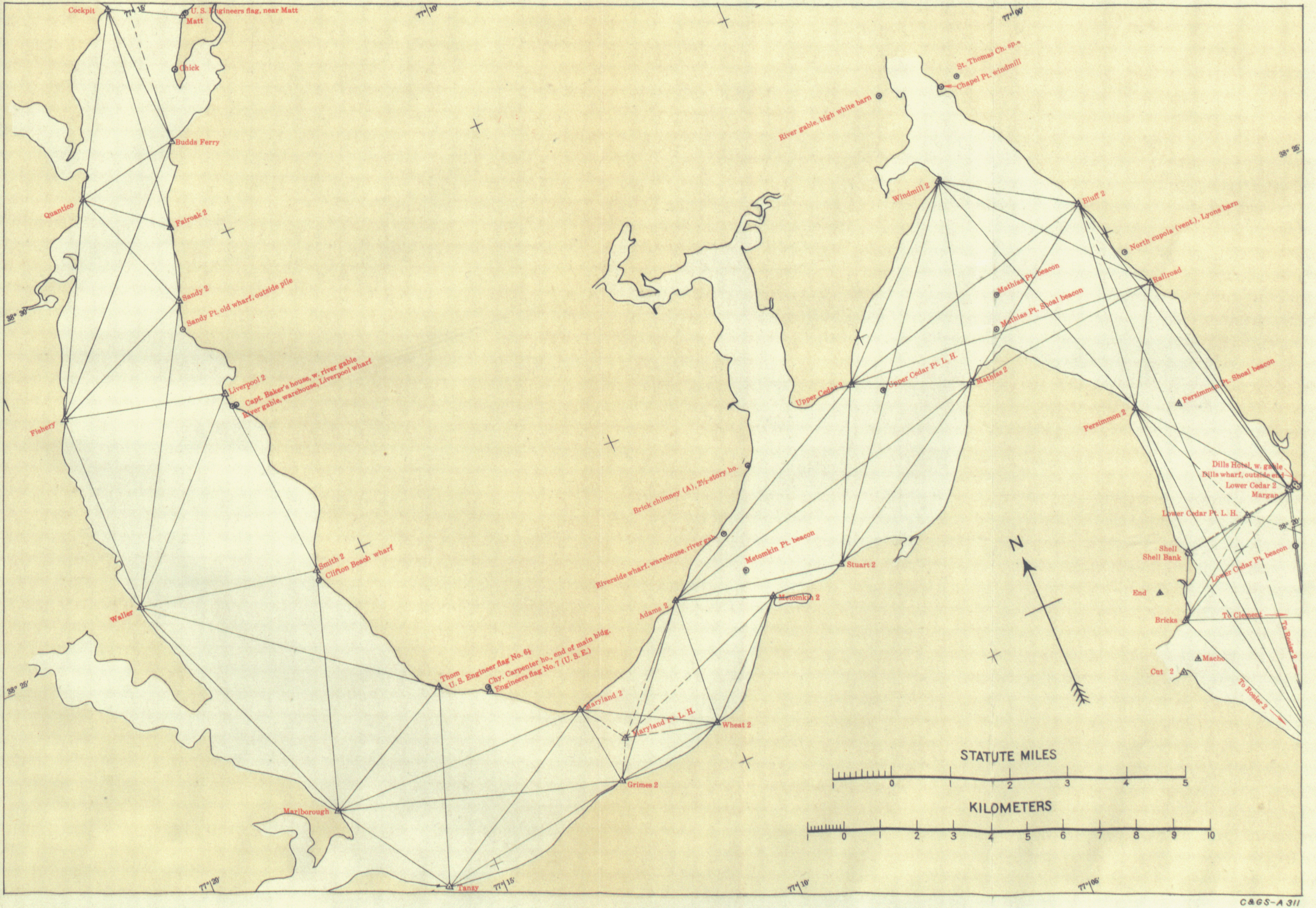

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Fig. 26 — POTOMAC RIVER, LOWER CEDAR POINT TO COCKPIT POINT

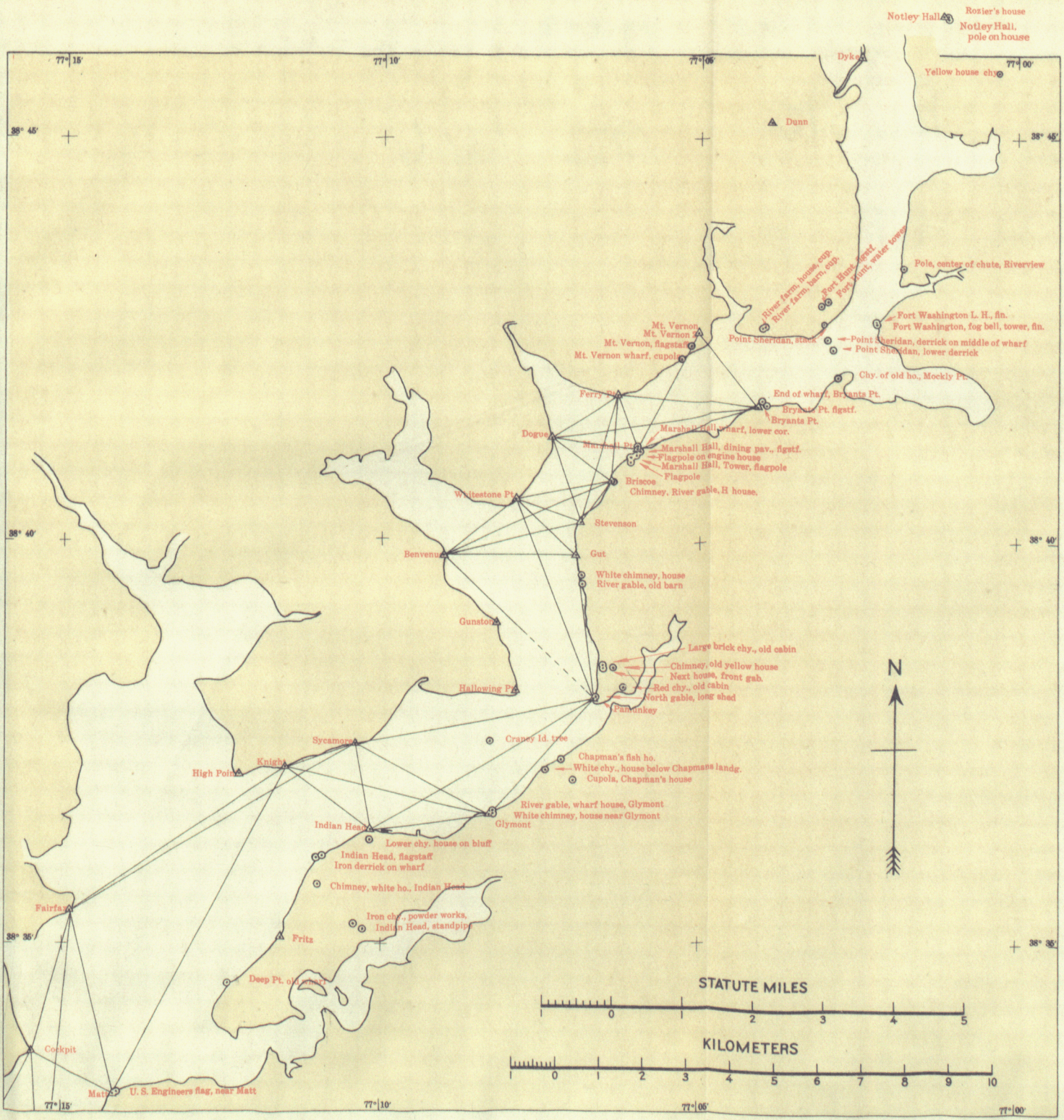

Fig. 27 — POTOMAC RIVER, COCKPIT POINT TO DISTRICT OF COLUMBIA

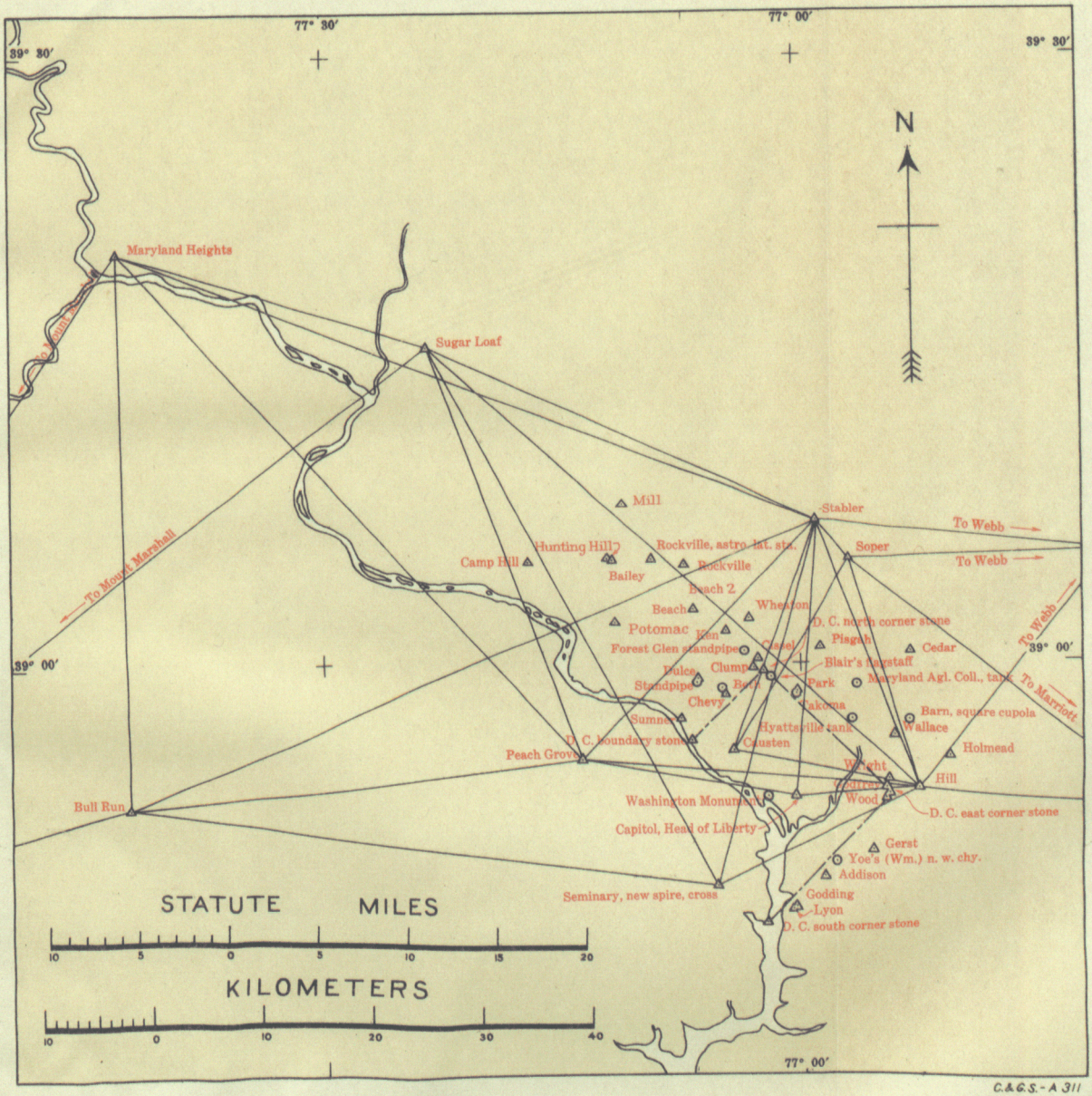

Fig. 28 — VICINITY OF DISTRICT OF COLUMBIA

INDEX TO POSITIONS, DESCRIPTIONS, AND SKETCHES

Station	Position	Description	Sketch
A	*Page*	*Page*	*Number*
A (Md.-Va. boundary corner)	183	498	19, 21
A Tower No. 3	27	268	7, 9
A Tower No. 4	28	268	9
Abb	31	269	7
Abbey Island	234	------	------
Abbey Island 2	24	265	9
Abbot's rolling mill	240	------	------
Abel	157	462	14
Abell, 1846	247	------	------
Abell, 1847	242	------	------
Abell 2	166	------	16
Abel's house, south apex	249	------	------
Aber	119	387	13
Aberdeen standpipe	31	------	7
Abingdon cupola	236	------	------
Abraham	158	------	14
Adam (Little Choptank River)	157	462	14
Adam	244	------	------
Adam 2	168	475	17, 18, 19
Adams, 1862	250	------	------
Adams, 1908	202	528	24
Adams 2	218	552	26
Adam's sail loft, flagstaff	100	349	8
Addison	229	559	28
Admiral (Va.)	206	533	25
Aisquith Hill	238	------	------
Albert	114	371	12
Alexandria Episcopal High School (Va.)	230	------	------
All	152	452	13
Aller (Patapsco River)	96	345	8
Aller (Wye River)	113	368	12
Alley (Eastern Bay)	107	355	12
Alley (Patapsco River)	95	343	8
Alms, corner of building	239	------	------
Almshouse	75	320	12
Almshouse, south chimney lightning rod	76	------	12
Alpha	72	316	12
Amour	58	287	10, 11, 12
Anchor	96	344	8
Annapolis:			
Armory, southeast corner	82	------	12
Bluff	77	323	12
Breastworks, west flag	82	------	12
Brice	77	323	12
Bridge	77	323	12
Catholic Church, spire	83	------	12
Clock tower	80	------	12
Double signal, target grounds center	80	------	12
Episcopal Church	238	------	------
Experiment station, outer vent	80	------	12
Field	77	323	12
Fort	79	328	12
Gable, white, between chimneys	80	------	12
Gymnasium, northeast corner	82	------	12
High power radio—			
Tower No. 1	83	------	12
Tower No. 2	83	------	12
Tower No. 3	83	------	12
Tower No. 4	83	------	12
Tower No. 5	83	------	12
Horn	79	------	12
Horn, 1910	79	328	12
Lighthouse depot, east chimney	80	------	12
Meteorological pole	81	------	12
Midshipmen's quarters, north cupola	81	------	12
Midshipmen's quarters, south cupola	81	------	12
Naval Academy boathouse, flagstaff	80	329	12
Naval Academy chapel, dome	82	------	12
Naval Hospital, cupola	81	------	12
Naval Signal	81	------	12
Powerhouse, northwest corner	82	------	12
Powerhouse, stack	81	------	12
Red tower, spire	83	------	12
St. Annes Church, spire	83	------	12
St. Johns College	83	------	12
Seawall, east corner	81	------	12
Seawall, south corner	81	------	12
Signboard, center	81	------	12
Statehouse dome, center	82	------	12
Windmill	81	------	12
Wireless pole	83	------	12
Anne	63	298	11
Annette	144	432	13
Ansley	147	440	13
Apes	246	------	------
Apple	72	317	12
Applegarth	170	477	16, 17, 18
Aquia Creek (Va.)	251	------	------
Ar	177	488	17
Arbuckle	201	525	24
Ariel	241	------	------
Arlington	90	337	8
Armistead	87	333	8, 10
Armory, southeast corner, Annapolis	82	------	12
Arnold	79	327	12
Arnolds Bar	235	------	------
Arundel	73	318	12
Arundel (H. B.)	88	335	8
Asbury Church	183	497	19, 21
Ash (Elk River)	234	------	------
Ash (Langford Creek)	69	310	11
Ashland	60	291	11
Asphalt (U. S. E.)	91	339	8
Asquith	170	478	16
Assateague Lighthouse (Va.)	188	------	22
Astronomic station:			
Calvert, latitude	22	------	------
Gantt, latitude	22	------	------
Hill, latitude	22	------	------
Marriott, latitude, 1846	22	------	------
Marriott, latitude, 1849	22	------	------
Maryland Heights, latitude	22	------	------
Pooles Island, latitude	22	------	------
Principio, latitude	22	------	------
Rockville, latitude	230	561	------
Soper, latitude	22	------	------
Sugar Loaf, latitude	22	------	------
Taylor, latitude	22	------	------
Webb, latitude	22	------	------
Asylum, Bay View	87	334	8
Atlantic (U. S. E.)	101	349	8
Attila	114	372	12
Austin	160	466	14
Avalon	140	425	13
Avon	148	442	13
Avondale Catholic Church, cross	133	412	15
Aye	150	447	13
Ayres	247	------	------
Ayres 2	247	------	------
B			
B	94	342	8
B (Md.-Va. boundary corner)	183	498	21

Station	Position	Description	Sketch
	Page	*Page*	*Number*
B Tower No. 2	27	268	7
Bach	149	442	13
Bachelor	134	413	13
Bachelors Point	244		
Back (Elk River)	33	270	7
Back (Hudson Creek)	159	464	14
Back (Patuxent River)	132	411	15
Back (Tangier Sound) (Va.)	246		
Bailey (near Rockville)	229	560	28
Bailey (Wicomico River)	213	539	25
Bain Point (Va.)	249		
Baker & Whitely's coal wharf, flagstaff	241		
Baker's (Capt.) house, west river gable	223		26
Bald	144	433	13
Bald Eagle	247		
Baldwins	114	372	12
Ball (Broad Creek)	143		
Ball (Harris Creek)	141	426	13
Ball (Wicomico River)	179	490	17
Ballard, 1848	245		
Ballard, 1901	178	489	17
Baltimore:			
Adam's sail loft, flagstaff	100	349	8
Aller	96	345	8
Alley	95	343	8
Anchor	96	344	8
Arundel (H. B.)	88	335	8
Atlantic (U. S. E.)	101	349	8
B. & O. elevator bell tower (U. S. E.)	103		8
B. & O. elevator, cupola	97	346	8
B. & O. Pier 9, flagstaff	102		8
B. & O. Pier 9 (U. S. E.)	93	340	8
B. & O. Pier 32 (U. S. E.)	92	340	8
Basket (U. S. E.)	91	338	8
Baughs (U. S. E.)	92	339	8
Bay View Asylum	87	334	8
Bixler	95	343	8
Boston	94	342	8
Boyce	95	344	8
Broadway	96	345	8
Brooklyn Church, spire	98	346	8
Brooks (H. B.)	90	338	8
Cable	95	343	8
Cahill (U. S. E.)	93	341	8
Canton (U. S. E.)	88	334	8
Canton elevator stone	94	342	8
Canton, Northern Central elevator 3, tank	103		
Canton wharf	99	348	8
Car wheel factory	100	349	8
Cemetery spire	240		
Channel (U. S. E.)	92	340	8
Chase (U. S. E.)	102	350	8
Chemical works, box cupola flagstaff	100	349	8
Chesapeake	94	342	8
Chesapeake (U. S. E.)	93	340	8
Chipman's chair factory, finial	100	348	8
Cigar	94	342	8
City	88	334	8
City Hall, cupola	101		8
City malt house, Dunmead's	101		
Clifton cupola vane	100	348	
Clinton	99	347	8
Consol (U. S. E.)	93	341	8
Consolidation (H. B.)	103	350	8
Corner	94	342	8
Cromwell	93	341	8
Cross	94	343	8
Dock	95	344	8
Donaldson (H. B.)	89	336	8
Druid Hill park house	100	348	8
East Brooklyn standpipe	98		8
Electric (U. S. E.)	89	336	8
Electric plant, chimney	97	345	8
Elevator	88	335	8
Elevator B, belfry	101	349	

Station	Position	Description	Sketch
Baltimore—Continued.	*Page*	*Page*	*Number*
Emerson tower	98	346	8
F. S. Royster	87	334	8
Federal	99	347	8
Federal (U. S. E.)	93	341	8
Fell	96	345	8
Fell (U. S. E.)	102	349	8
Fell Roof (U. S. E.)	93		8
Fenhagen	99	348	8
Ferry Bar (U. S. E.)	92	340	8
Fidelity (U. S. E.)	91	339	8
Fire (U. S. E.)	103	350	8
Flack Bros. distillery	101	349	8
Foley	99	347	8
Foot	95	343	8
Fort McHenry flagstaff	97	346	8
Fort McHenry light	97	345	8
Fort McHenry, most eastern sallent	97	346	8
Furst	88	334	8
Gail & Ax tobacco manufactory, vane	100	348	8
Gas	99	347	8
Gas (U. S. E.)	89	336	8
Gas Co., stack	98	346	8
Gill (U. S. E.)	102	350	8
Grace Methodist Church	101		8
Gravel (H. B.)	88	335	
Green cupola, B. & O. piers Nos. 8 and 9	101	349	8
Guano factory, cupola	100	348	8
Gwynn	95	344	8
Hamilton	95	344	8
Han (U. S. E.)	89	335	8
Hanna	87	334	8
Harmon	93	341	8
Harrison	96	344	8
Henry	95	343	8
Holy Cross German Catholic Church	101		8
Hominy (U. S. E.)	89	336	8
Horner	99	347	8
House (U. S. E.)	91	339	8
Hughes (U. S. E.)	102	350	8
Iron Ore (U. S. E.)	91	339	8
Johns Hopkins Hospital	101	349	8
Johnson	95	343	8
Kelsoe	94	342	8
Key	90	338	8
Klein eccentric (U. S. E.)	92		8
Knabe's piano factory, cupola, vane	100	349	8
Lazaretto, 1915	88	335	8
Lazaretto Lighthouse	97		8
Leadenhall	95	344	8
Lee	95	343	8
Lester	99	347	8
Lester 2 (U. S. E.)	92	340	8
Livingstone stack	97	346	8, 10
McComas	100	348	8
McHenry	88	334	8
McLean (H. B.), Zell	88	335	8
McMurray	94	343	8
Mallory	96	345	8
Marine (H. B.)	90	337	8
Martin's planing mill, chimney 2	100	348	8
Maryland casualty tower	97	346	8
Merchants (U. S. E.)	93		8
Miners (U. S. E.)	102	350	8
Mitchell	94	342	8
Nicholson	94	342	8
Ninth Avenue stone	94	342	8
Notre Dame tower, cross	88	334	8
Ober & Sons guano factory, cupola	101	349	8
Our Lady of Conception Church	98		8
Over (U. S. E.)	89	335	8
Pennsy 6 (U. S. E.)	92		8
Pennsy Con. (U. S. E.)	101	349	8
Philpot	96	345	8
Phoenix	94	342	8

Station	Position	Description	Sketch
Baltimore—Continued.	*Page*	*Page*	*Number*
Pier 3 (U. S. E.)	93	341	8
Pier 6 (U. S. E.)	93	341	8
Pillar	100	348	8
Plum	95	344	8
Point	96	345	8
Pratt	95	343	8
Pratt & Callows Wharf	101	------	8
Protestant Episcopal Church, spire	97	346	8
Prudential Oil Co.'s, stack	98	346	8
Randall	93	341	8
Ranstead	93	341	8
Recreation (U. S. E.)	102	350	8
Reinle Salmon Co., tank	97	345	8
Roland	90	337	8
Sacred Heart Catholic Church, spire	101	------	8
St. James Church, spire	101	------	8
Sanford Brooks, tank	97	346	8
Seawall	101	349	8
Smith's wharf, chimney	100	348	8
Spring Gardens	99	347	8
Standard (U. S. E.)	92	340	8
Storage & Lighterage Co.	241	------	--------
Target, (U. S. E.)	91	339	8
Taylor	96	345	8
Terminal (U. S. E.)	93	------	8
Thames	99	348	8
Towson	96	344	8
Tyson 2	90	338	8
Tyson 2 (U. S. E.)	103	------	--------
U. S. bonded warehouse	101	349	8
Wabash (H. B.)	89	336	8
Wagners church, spire	96	------	8, 10
Walker	99	348	8
Warner	95	344	8
Washington Monument, head of statue	87	------	8
Webster	95	344	8
Webster (U. S. E.)	102	349	8
Western Maryland elevator pier (U. S. E.)	92	340	8
Western Maryland open pier	91	338	8
William	95	343	8
Wolf	96	344	8
Woodall, (U. S. E.)	102	350	8
Yacht Club, flagstaff	98	346	8
Yokels Park, flagstaff	98	346	8
York (U. S. E.)	93	341	8
Young (U. S. E.)	92	340	8
Zell, McLean (H. B.)	88	335	8
B. & O. Central Station	240	------	--------
B. & O. elevator, bell tower (U. S. E.)	103	------	8
B. & O. elevator, cupola	97	346	8
B. & O. Pier 9, flagstaff (U. S. E.)	102	------	8
B. & O. Pier 9 (U. S. E.)	93	340	8
B. & O. Pier 32	241	------	--------
B. & O. Pier 32 (U. S. E.)	92	340	8
Baltimore Lighthouse	54	------	10
Balto	53	------	10
Bank (Choptank River)	138	422	14
Bank (Magothy River)	84	330	10
Bank (Patapsco River)	242	------	--------
Bank (St. Clement Bay)	214	542	25
Bank (Swan Creek)	56	281	10, 11
Bar (Patapsco River)	240	------	--------
Bar (Sinepuxent Bay)	187	503	23
Bar (Tangier Sound)	174	483	17, 19
Bar (Tilghmans Island)	134	413	13
Bar Neck	245	------	--------
Barber (Choptank River)	137	420	14
Barber (Wicomico River)	212	538	25
Barclay	21	263	6
Bare Point	234	------	--------
Bareda house, cupola	127	398	15
Barker	247	------	--------
Barn cupola (Eastern Bay)	109	388	12
Barn cupola (Elk River)	37	------	7
Barn cupola, finial (Chester River)	66	------	11, 12
Barn cupola, Taylor Mountain	47	------	9
Barn, east gable (Patuxent River)	133	412	15
Barn, east near Carpenter	30	------	7
Barn, Ford's cupola (Manokin River)	181	495	19
Barn, high white, river gable (Potomac River)	221	------	27
Barn, large (Va.)	209	------	25
Barn, large, near Blue Sow 2, gable	208	------	25
Barn, large unpainted, cupola (Potomac River)	195	------	24
Barn, Lyons's	222	------	27
Barn, Maxwell, cupola	46	------	9
Barn, new, cupola (Eastern Bay)	108	388	12
Barn, north, white, cupola (Elk Neck)	30	------	7
Barn, old, below Gut, river, gable	224	------	27
Barn, old brick, river, gable (Va.)	196	------	24
Barn, old, northeast gable (Elk River)	36	------	7
Barn, old, northwest gable (Elk River)	35	------	7
Barn Point	246	------	--------
Barn, River Farm, cupola (Potomac River)	227	------	27
Barn, small, near Blue Sow 2, gable	208	------	25
Barn, south gable (Elk River)	35	------	7
Barn, south, white, cupola (Elk Neck)	30	------	7
Barn, west gable (Elk River)	34	------	7
Barn, west, near station Carpenter, cupola	30	------	7
Barn, white, east of Landover, square cupola	233	------	28
Barn, white, northeast gable (Elk River)	36	------	7
Barn, white, west gable (Elk River)	35	------	7
Barnes (Choptank River)	244	------	--------
Barnes (Patuxent River)	247	------	--------
Barnes (Taylors Island)	120	389	14
Barnes (Va.)	204	------	24
Barnett	117	380	13
Barren	169	475	16
Barren Creek	246	------	--------
Barren Island	242	------	--------
Barren Island 2	120	------	16
Bars	129	402	15
Bartlett (Miles River)	243	------	--------
Bartlett (Thirdhaven Creek)	243	------	--------
Base	207	533	25
Base Monument, north (U. S. E.)	90	------	8, 10
Base, north, Kent Island	19	260	6, 12
Base, north, Kent Island speed trial course	55	------	12
Base, northwest, Rockville	252	------	--------
Base, south, Kent Island	19	260	6, 12
Base, south, Kent Island speed trial course	55	------	12
Base, southeast, Rockville	252	------	--------
Basford	126	396	14
Basket (U. S. E.)	91	338	8
Bat	31	269	7
Bateman	151	449	13
Bath	71	315	11
Battee	243	------	--------
Battery	234	------	--------
Battery, Fishing, flagstaff	29	------	7
Battle	130	405	15
Batts	108	357	12
Baughs (U. S. E.)	92	339	8
Bay (Magothy River)	85	331	10

Station	Position	Description	Sketch
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Bay (Severn River)	79	327	12
Bay (Tangier Sound)	176	485	17
Bay Bush Point	57	284	11
Bay Ridge Hotel, east chimney	80		12
Bay Ridge stack	80	329	12
Bay Shore cupola	97		10
Bay Side	52	277	12
Bay View Asylum	87	334	8
Bayard	235		
Bayly	159	463	14
Beach	126	395	13
Beach (Elk River)	34		7
Beach (Nanticoke River)	246		
Beach (north of D. C.)	231	563	28
Beach (Sinepuxent Bay)	186	502	23
Beach 2, (north of D. C.)	231		28
Beach House	248		
Beach Point	50	276	10, 11, 12
Beacon (old) (Tangier Sound) (Va.)	175	484	21
Beacon (Tangier Sound) (Va.)	174	483	21
Beacon, black (Choptank River)	139	423	13, 14
Beacon, black (Smith Creek)	198		24
Beacon Clumps	187	505	22
Beacon, first white, Nomini Bay (Va.)	208		27
Beacon, Hambrooks Bar	139	424	14
Beacon, Lower Cedar Point	210		25, 26
Beacon, Mathias Point (Va.)	224		26
Beacon, Mathias Point Shoal (Va.)	224		26
Beacon, Metomkin Point	224		26
Beacon, Persimmon Point Shoal (Va.)	210		25, 26
Beacon, red	198		24
Beak	119	386	13
Beale's house, southeast chimney	196		24
Bean	38	270	7
Bear (U. S. E.)	103	350	10
Bear 2 (Spesutie Island)	25	265	7, 9
Beards Point	238		
Beau	217	549	25
Beaumont	238		
Beckingtons Marsh	237		25
Beckwith	157	461	14
Bee (Sassafras River)	44	272	9
Bee (Wye River)	113	370	12
Beg	120	387	13
Belfry, Point Lookout, finial	195		24
Belle	217	549	25
Bellevue	149	443	13
Bello	199	521	24
Bell's, Prof., house, Colonial Beach (Va.)	210		25
Ben	129	399	15
Bend (Bohemia River)	41		7
Bend (St. Marys River)	200	522	24
Benedict, Catholic Church	133		15
Bengal	145	435	13
Benn	107	354	12
Bennett	105	351	12
Bennett's oyster house, cupola	181	495	19
Bennetts Point	243		
Benoni 2	133	412	15
Benonis Point	244		
Bens Point	245		
Bentley	170	478	16
Benvenue (Va.)	220	557	27
Berry	153	452	13
Beta	72		12
Beth	231	563	28
Bethel	118	384	13
Betterton M. E. Church, spire	234		
Betterton school, cupola	29		9
Between	199	519	24
Beverly	147	440	13
Big Bay Point	248		
Big oak house, southwest chimney (Va.)	250		
Bight (Patapsco River)	242		
Bight (Sassafras River)	44	272	9
Bight (Severn River)	78	326	12
Bill	61	293	11
Billiard	131	407	15
Birch	187	505	22
Birch Head	236		
Birch house, north chimney	253		
Bird	71	315	11
Bird nest tree (Patapsco River)	239		
Bird nest tree (Potomac River)	250		
Bis Jones	248		
Bishop 2	172	480	17, 18
Bishops Head	245		
Bite	168	475	17, 18
Bitt (Va.)	190		20, 24
Bitzel's, John, northeast chimney (Va.)	248		
Bivalve Church	177	489	17
Bixler	95	343	8
Black	136	417	13
Black beacon (Choptank River)	139	423	13, 14
Black beacon (Smith Creek)	198		24
Black Marsh	236		
Black Marsh 2	55	280	10
Black Marsh house, north chimney	55		10
Black Point (new)	27	268	9
Black Point tower (old)	27	268	7, 9
Blackhole	84	329	10
Blacksmith shop, cross in front of	241		
Blacksmith stack, shipyard	37		7
Bladensburg church, east apex	252		
Blair's flagstaff	233		28
Blair's (Montgomery) house	252		
Blake	23	263	6, 13
Blake (Patuxent River)	247		
Blake 2	124	393	13
Blakeford	59	288	11, 12
Blake's house chimney	86		10
Blakistone	213	538	25
Blakistone Island, duck blind	208		25
Blakistone Island house, red roof	209		25
Blakistone Island house, striped roof	209		25
Blakistone Island Lighthouse	204	531	24
Blakistone Island wharf, flagstaff	209		25
Blakistone Lighthouse, signal	249		
Blakiston's, Daniel, southwest chimney	250		
Blanco	146	437	13
Blank (Back Creek)	39		7
Blank (Chester River)	62	296	11
Blazed tree (Hawkins Point)	239		
Blind (Chester River)	62	296	11
Blind (Choptank River)	138	422	14
Blizzard Island range	184	499	21
Block (Baltimore)	241		
Block (Potomac River) (Va.)	193	511	25
Blood	172	480	17, 18
Bloodsworth	245		
Bloody 2	47		12
Bloody Point	236		
Bloody Point Bar Lighthouse	49		12, 13
Bloomfield	235		
Blossom	151	448	13
Blue house, north gable	81		12
Blue Sow	254		
Blue Sow 2	204	531	25
Blue Sow 2, large barn near	208		25
Blue Sow 2, small barn near	208		25

Station	Position	Description	Sketch
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Bluebeard	59	287	11, 12
Bluff (Chester River)	64	300	11
Bluff (Fishing Creek)	161	468	14
Bluff (Hooper Island)	165	472	16
Bluff (Magothy River)	84	------	10
Bluff (Potomac River)	250	------	--------
Bluff (Sassafras River)	44	273	9
Bluff (Severn River)	77	323	12
Bluff (Wicomico River)	254	------	--------
Bluff 2 (Magothy River)	85	332	10
Bluff 2 (Potomac River)	218	551	26
Bluff house chimney	255	------	--------
Bluff Point (Va.)	249	------	--------
Bluff tree (Tangier Sound)	245	------	--------
Bluff tree (Wicomico River)	254	------	--------
Bluff woods	253	------	--------
Bluff woods, north chimney	253	------	--------
Bo	40	271	7
Boarding house, Elk River, west chimney	35	------	7
Boathouse, Diston's, flagstaff	31	------	7
Boathouse, east gable (Bohemia River)	41	------	7
Boathouse, flagstaff (Baltimore Harbor)	241	------	--------
Boathouse, flagstaff (Sassafras River)	43	272	9
Boathouse, flagstaff, Naval Academy	80	329	12
Boathouse, old, Ragged Point (Va.)	208	------	24
Boathouse, southwest gable (Bohemia River)	41	------	7
Bodkin (Eastern Bay)	104	351	12
Bodkin (Patapsco River)	239	------	--------
Bodkin Island	242	------	--------
Bodkin, Lighthouse	49	275	10
Bodkin Point	86	332	10
Bodkin tower	239	------	--------
Bogg	65	301	11
Bogles wharf house, flag	66	------	11
Bohemia Manor	234	------	--------
Boling	137	420	14
Bon	132	410	15
Bond (Chesapeake Bay)	242	------	--------
Bond (Patuxent River)	247	------	--------
Bonnel's house, chimney	240	------	--------
Bonnet	111	362	12
Booker	61	292	11
Boone	136	418	13
Borough	149	445	13
Bosley	163	469	14
Boston	94	342	8
Bottomlys Hill	103	------	--------
Boundary:			
Corner A, Md.-Va	183	498	19, 21
Corner B, Md.-Va	183	498	21
Corner C, Md.-Va	184	498	21
Corner D, Md.-Va	184	498	21
Corner, Horse Hammock	183	498	19, 20, 21
Corner, Watkins Point, Md.-Va	183	498	21
L. S. S. beach, Md.-Va	189	508	23
Mark, Schultheis' farm, Md.-Del	234	------	--------
Mark, Sweitzer's farm, Md.-Del	234	------	--------
Pope Island, Md.-Va	189	508	22
Railroad, Md.-Va	189	508	22
Stone, Fox Ferry (D. C.-Md.)	228	------	--------
Bowley	242	------	--------
Bowlings Marsh	247	------	--------
Bowman	212	536	25
Bowmans Creek	254	------	--------
Box	44	272	9
Box cupola, flagstaff, chemical works	100	349	8
Boyce	95	344	8
Boyces Hill	235	------	--------
Boyd	235	------	--------
Boyds Point	238	------	--------
Boz	104	------	12
Bozman	142	418	13
Bozman M. E. Church, spire	143	431	13
Bradshaw, Catholic Church, spire	47	------	9
Bramble	52	277	9
Brannock	156	458	14
Break	59	288	11, 12
Breastworks, west flag, Annapolis	82	------	12
Brent (Va.)	251	------	--------
Brent's house, south chimney	255	------	--------
Breton	254	------	--------
Brewer (Severn River)	78	325	12
Brewer (South River)	74	320	12
Brewer, 1906 (South River)	75	321	12
Brewers Hill	238	------	--------
Brewers Point (Chester River)	237	------	--------
Brewers Point (South River)	238	------	--------
Brewerton Channel Range, front light	103	------	--------
Brewerton Channel Range, rear light	103	------	--------
Brian	105	352	12
Brian reference station	107	355	12
Briary	140	425	13
Brice	77	323	12
Brices Point	238	------	--------
Brick chimney (A) 2½ story house	222	------	26
Brick house, cupola	252	------	--------
Brick Kiln Cove	246	------	--------
Brick stack, paper factory at Elkton	37	------	7
Bricks (Va.)	207	------	25, 26
Bridge (Broad Creek)	143	431	13
Bridge (Prospect Bay)	111	363	12
Bridge (Honga River)	171	479	16
Bridge (Patapsco River)	240	------	--------
Bridge (Severn River)	77	323	12
Bridge (South River)	75	------	12
Brief	200	523	24
Briery	30	------	9
Briery Island	165	472	18, 19
Brig Knots	248	------	--------
Briscoe (Patuxent River)	129	401	15
Briscoe (Sassafras River)	235	------	--------
Briscoe, 1862 (Potomac River)	252	------	--------
Briscoe, 1902 (Potomac River)	220	557	27
Broad (Chester River)	61	294	11
Broad (Herring Bay)	127	397	13
Broad (Kent Island)	47	274	12
Broad (Pocomoke Sound)	183	------	21
Broad Creek	252	------	--------
Broadway	96	345	8
Brome	200	522	24
Brooklyn Church, spire	98	346	8
Brooks, 1901	159	464	14
Brooks, 1910	160	466	14
Brooks (H. B.)	90	338	8
Brooms	133	412	15
Brooms Island	247	------	--------
Broughams Island	247	------	--------
Brown (lower Chester River)	59	289	11
Brown (upper Chester River)	64	300	11
Brown barn, south gable	240	------	--------
Bruffs	112	365	12
Bryan	243	------	--------
Bryants Point, 1862	252	------	--------
Bryants Point, 1901	221	558	27
Bryants Point, end of wharf	227	------	27
Bryants Point, flagstaff	227	------	27
Buchanan	239	------	--------
Buck	64	299	11
Buck 2 (Del.)	19	258	6
Budds Ferry, 1862	251	------	--------
Budds Ferry, 1901	221	558	26
Buena	131	409	15
Buff	173	481	19
Buffing	186	501	23
Buffington windmill	189	507	23

Station	Position	Description	Sketch
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Bulkhead corner	241		
Bulkhead line	241		
Bull	25	266	7
Bull Run (Va.)	20	262	6, 28
Bulls Mountain	234		
Bungay	69	309	11
Bur	129	400	15
Bureau of Standards, wireless pole	233		
Burley	43	271	9
Burns	60	291	11
Burr	212	536	25
Burrough's J. W., east chimney	255		
Bush (Bush River)	30		9
Bush (Patapsco River)	240		
Bush (Wye River)	116	376	12
Bushwood, Sacred Heart Church spire	209		25
Bushwood's quarters, north chimney	255		
But	119	386	13
Butler (Va.)	184		21
Butt (Va.)	246		
Buzz	131	407	15
Buzzard	217	550	25
Buzzards Point	254		
Bye (Va.)	194	514	24
C			
C (Md.-Va. boundary corner)	184	498	21
Cabin (Broad Creek)	146	438	13
Cabin (Choptank River)	135	416	14
Cabin (Elk River)	31	269	7
Cabin (U. S. E.)	91	339	8
Cabin Creek	244		
Cabin, old, large brick chimney (Potomac River)	225		27
Cable (Patapsco River)	95	343	8
Cable (Patuxent River)	132	411	15
Cadwalader	45	273	9
Caffee	192	510	24, 25
Cahill (U. S. E.)	93	341	8
Cain (Cedar Point)	167	473	15, 16
Cain (Little Choptank River)	157	462	14
Cake	61	293	11
Caldwell	206	533	25
Calf	73	318	12
Calvert (Patuxent River)	23	263	6, 15, 16
Calvert 2 (Potomac River)	191		24
Calvert 4, (Potomac River)	192	510	24
Calvert astronomic latitude station (Patuxent River)	22		
Calvert Bay	249		
Calvert Monument	200	522	24
Cam	152	451	13
Cambridge	137	419	14
Cambridge Episcopal Church, spire	139		14
Cambridge standpipe	139	423	14
Camden	151	448	13
Camp Hill 2	233		28
Can (Chester River)	65	301	11
Can (Little Choptank River)	155	456	14
Canby	234		
Canoe	214	540	25
Canoe Neck	253		
Canton	240		
Canton (U. S. E.)	88	334	8
Canton elevator stone	94	342	8
Canton, tank on Northern Central elevator No. 3	103		8
Canton wharf	99	348	8
Capitol, head of Liberty	21		6, 28
Captain Baker's house, West River gable	223		26
Carberry's house, chimney	253		
Carpenter house, chimney	223		26
Carpenters Point	234		
Carpenters Point 2	26	266	7
Carrie	159	463	14
Carroll	246		
Carroll 2	121	390	15, 16
Carroll Island	236		
Carroll Island clubhouse, Graces quarters east chimney	236		
Carroll, lightning rod	253		
Carroll Point	45	273	9
Carrolls Lower Island	236		
Carville	237		
Car-wheel factory, south gable	100	349	8
Case	244		
Cassidy	235		
Cassidy's wharf	43	272	9
Castle	136	418	13, 14
Castlehaven	244		
Castlehaven, large water tank	139	423	13, 14
Cat	84	330	10
Catholic Church, Bradshaw	47		9
Catholic Church, Chesapeake City, spire	39		7
Catholic Church, cross (Benedict)	133		15
Catholic Church, Newtown Neck	215	545	25
Catholic Church, River Springs	213	538	25
Catholic Church, Rock Point	213	538	25
Catholic Church, St. Michaels, spire	190	509	18, 24
Catholic Church spire, Annapolis	83		12
Catholic Church, spire cross (Chesapeake City)	39		7
Catholic Church, spire cross (Elkton)	37		7
Cato	73	317	12
Caulk	146	438	13
Cause	65	301	11
Causten (D. C.)	21	262	6, 28
Cecil (St. Clement Bay)	215	543	25
Cecil (St. Marys River)	253		
Cedar (Bretons Bay)	217	550	25
Cedar (Broad Creek)	144	433	13
Cedar (Chester River)	64	301	11
Cedar (Elk River)	33		7
Cedar (near D. C.)	231	562	28
Cedar (Severn River)	78	326	12
Cedar, (South River)	74	320	12
Cedar, 1906 (South River)	75	321	12
Cedar Hummock	246		
Cedar Hummock Point	245		
Cedar Point (Chester River)	237		
Cedar Point (Patuxent River)	23	264	6, 15, 16
Cedar Point (St. Clement Bay)	254		
Cedar Point (Thirdhaven Creek)	243		
Cedar Point (West River)	238		
Cedar Point, 1846 (Little Choptank River)	245		
Cedar Point, 1901 (Little Choptank River)	155	458	14
Cedar Point Lighthouse (Patuxent River	120		15, 16
Cedoak	215	545	25
Centerville Episcopal Church, spire	66		11
Centerville M. P. Church spire	66		11
Centerville standpipe	66		11
Central cupola, flagstaff, Flack Bros	101	349	8
Chadwick	203	530	24
Chair's house, east chimney	99		10
Chalk	72	317	12
Chambers	62	296	11
Chan	199	521	24
Chancellor (Choptank River)	135	415	14
Chancellor (St. Marys River)	253		

Station	Position	Description	Sketch
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Chancellors Point	244		
Change, 1900	140	424	13
Change, 1910	135	416	13
Channel (U. S. E.)	92	340	8
Chantilly (Va.)	249		
Chantilly house, south chimney (Va.)	249		
Chap	119	385	13
Chapel	214	541	25
Chapel dome, Naval Academy	82		12
Chapel oak	253		
Chapel Point (Port Tobacco)	255		
Chapel Point (St. Clement Bay)	253		
Chapel Point, windmill, Belview Hotel	222		26
Chapman's fish house, river gable	225		27
Chapman's house, cupola	226		27
Chapman's Landing, house below, chimney	225		27
Chapowamsie (Va.)	251		
Chaptico	255		
Charles (Honga River)	171	478	16
Charles (Island Creek)	153	454	13
Charles (Wicomico River)	211	534	25
Charles Stuart	238		
Charleston Creek	254		
Charleston flagstaff	31		7
Chase (U. S. E.) (Baltimore Harbor)	102	350	8
Chase 2 (Severn River)	51		12
Chase, 1903 (Severn River)	78	325	12
Chase, 1906 (Severn River)	78	326	12
Chases Bank	238		
Chase's warehouse, flagstaff	240		
Cheese (Va.)	168	475	19, 20, 21
Chef	135	416	13, 14
Chelsea	236		
Chemical (U. S. E.)	91	338	8
Cherry (Patapsco River)	242		
Cherry (St. Marys River)	202	527	24
Cherry Cove	216	547	25
Cherry Island water tank, flagstaff	158		14
Cherry tree (Va.)	249		
Ches (Back Creek)	39		7
Ches (West River)	72	316	12
Chesapeake	94	342	8
Chesapeake (U. S. E.)	93	340	8
Chesapeake City:			
Catholic Church, spire, cross	39		7
High school, cupola, finial	40		7
Iron smokestack	40		7
Red windmill	40		7
Spire	40		7
Windmill near	40		7
Chester (Chester River)	60	290	11
Chester (Chincoteague Bay) (Va.)	188	507	22
Chestertown:			
M. E. Church, spire	66		11
M. P. Church, spire	66		11
Washington College cupola flagstaff	66		11
Chestertown 1	237		
Chestertown 2	237		
Chestnut (St. Inigoes Creek)	202	527	24
Chestnut, flag in tree (Elk River)	34	270	7
Chevy	231	562	28
Chew	242		
Chew (Wye River)	116	376	12
Chick	224		26
Chicomoxen barn, south gable	251		
Chief	137	421	14
Chilby Point	236		
Child	179	491	17
Children's Home, Colonial Beach (Va.)	210		25
Chim	43	272	9
Chimney	161	468	14
Chimney 1, Smith's wharf	100	348	8
Chimney 2, Martin's planing mill	100	348	8
Chimney A, house near Kitts Point	195		24
Chimney B, house near Kitts Point	195		24
Chimney east, Steelton	99		10
Chimney, far	81		12
Chimney, Long Island	169		17, 18, 19
Chimney north, Sparrow Point	103		
Chimney, old	36		7
Chimney, old yellow house	226		27
Chimney, Shearer's, east	228		
Chimney, south, Sparrow Point	103		
Chimney west, Steelton	98		10
Chimney, white house, Indianhead	226		27
Chimney white top (Va.)	251		
Chin	113	369	12
Chipman's chair factory, mill cupola finial	100	348	8
Chiseltines house, east chimney	209		25
Chlora	134	413	13, 14
Choptank River Lighthouse	136		13
Church	201	526	24
Church:			
Asbury	183	497	19, 21
Bivalve	177	489	17
Brooklyn, spire	98	346	8
Catholic, Annapolis, spire	83		12
Catholic, Avondale, cross	133	412	15
Catholic, Benedict	133		15
Catholic, Bradshaw, spire	47		9
Catholic Chesapeake City, spire	39		7
Catholic, Elkton	37		7
Catholic, Newtown Neck	215	545	25
Catholic, River Springs	213	538	25
Catholic, Rock Point	213	538	25
Catholic, St. Michaels, spire	190	509	18, 24
Colored, Deal Island, spire	175	485	17
Dames Quarter, spire	175	485	17
Deal Island, spire	175	485	17, 19
Emmanuel, Crisfield, spire	183		19, 21
Episcopal, Cambridge, spire	139		14
Episcopal, Centerville, spire	66		11
Episcopal, St. Marys, cross	201	525	24
Ewell, Smith Island, spire	169	476	19, 20, 21
Fairmount, spire	180	493	19
Grace Methodist, Baltimore	101		8
Grace M. E. (Va.)	189	509	22
Holland Island, spire	169		18, 19
Holy Cross, Baltimore	101		8
Hopkins Memorial, spire	171	479	16, 17
Hosier Memorial, spire, 1910	171	480	16
M. E., Betterton, spire	234		
M. E., Bozman, spire	143	431	13
M. E., Chestertown, spire	66		11
M. E., Elkton, spire	37		7
M. E., Hoopersville, spire	170	480	16
M. E., Mount Zion	171	479	16
M. E., Solomons	133	412	15
M. E., Still Pond, spire	28		9
M. E., Tilghman	143	431	13
M. E., Toddville, spire	176	487	16, 17
M. P., Centerville, spire	66		11
M. P., Chestertown, spire	66		11
Mt. Pleasant, Crisfield, spire	183	498	19, 21

Station	Position	Description	Sketch
Church—Continued.	*Page*	*Page*	*Number*
Mount Vernon	179	491	17
Nanticoke	177	489	17
North end Hooper Island, spire	128		16
North, Smith Island, spire	169	476	19, 20, 21
Old, Smith Island, spire	169	476	19, 20, 21
Our Lady of Conception	98		8
P. E., Baltimore, spire	97	346	8
P. E., St. Michaels, spire	109		13
Rock Creek, spire	181	494	17
Sacred Heart, Baltimore, spire	101		8
Sacred Heart, Bushwood, spire	209		25
St. Annes, Annapolis, spire	83		12
St. Annes, Tenleytown, (near D. C.)	233		
St. Inigoes, cross	201	525	24
St. James, Baltimore, spire	101		8
St. Thomas, spire (Honga River)	171	480	16, 17
St. Thomas, spire (Potomac River)	221		26
Saxis, spire (Va.)	183	497	21
Southern M. E., Tilghman Island	143	431	13
Tangier Island, spire (Va.)	175		
Wagners, spire	96		8, 10
White Haven	179		17
Church Creek 1 east	161	467	14
Church Creek 1 west	161	467	14
Church Creek 2 east	162	468	14
Church Creek 2 west	162		14
Church Creek 3 east	162	468	14
Church Creek 3 west	162	468	14
Church Creek 4 east	162	468	14
Church Creek 4 west	162	469	14
Cigar	94	342	8
Cigar stub	241		
Cissel	229	560	28
City (Back Creek)	39	271	7
City (Patapsco River)	88	334	8
City (Patuxent River)	131	409	15
City Hall, cupola, Baltimore	101		8
City yard, flagstaff	240		
Claggett's house, old, northeast chimney	211		25
Clark (Broad Creek)	147	439	13
Clark (Choptank River)	244		
Clarke (Chester River)	237		
Clarke (Sassafras River)	235		
Clarke's house, north chimney	65		11, 12
Clavoe's house, west chimney	254		
Clay (Langford Creek)	70	312	11
Clay (Tangier Sound)	172	480	17
Clay Island Light	245		
Clem	78	325	12
Clement (Chester River)	237		
Clement (Potomac River)	206	533	25
Cleopatra (Va)	251		
Cliff flag (Va.)	250		
Cliff Point	58	285	11
Clifton	240		
Clifton Beach wharf, middle outside end	223		26
Clifton cupola vane	100	348	8
Clinton	99	347	8
Close	113	369	12
Clough	21	262	6, 11
Club (Baltimore Harbor)	241		
Club (Spesutie Narrows)	30		7
Clubhouse cupola (Spesutie Narrows)	28	268	7
Clubhouse flagstaff (Elk River)	36		7
Clubhouse, northeast gable (Elk River)	36		7
Clubhouse, south gable, flagstaff (South River)	76	322	12
Clump (Chesapeake Bay)	52	277	12
Clump (Harris Creek)	142	429	13
Clump (Potomac River)	229	560	28
Coad	253		
Coal	144	432	13
Coan 2 (Va)	191		24
Coan River (Va.)	248		
Cob Neck	254		
Cob Point	250		
Cobb Point Bar Lighthouse	205	531	25
Cobrums	215	544	25
Cockpit (Va.)	219	555	26, 27
Cockpit Point (Va.)	251		
Cockpit Point, flag (Va.)	251		
Coffee	110	360	12
Cohouck	212	537	25
Colburn	181	495	19
Cold Quarter	245		
Cole	130	404	15
Coles Point 2 (Va.)	191		24, 25
Colgate	241		
Collar Neck	235		
Collier	185	500	23
Collins	131	407	15
Collins house, red spire	139		13
Colonel	114	371	12
Colonial Beach (Va.):			
Childrens home, cupola	210		25
Hotel, main gable	210		25
Outer end, upper ruined roof	210		25
Prof. Bell's house, cupola	210		25
Colonial mansion, gable over columns	80		12
Coltons Hotel, southeast chimney	209		25
Coltons Pavilion, flagstaff	209		25
Coltons Wharf, outer end	209		25
Comb	117	381	13
Combs (Firing point, rear range)	203	528	24
Command	137	419	14
Commegys	237		
Commercial Point	253		
Compton	216	547	25
Consol (U. S. E.)	93	341	8
Consolidated wharf	241		
Consolidation (H. B.)	103	350	8
Convent water tower	188	507	23
Converse	28	268	7
Cook (Broad Creek)	144	432	13
Cook (Choptank River)	244		
Cookes Bank	239		
Cooks Point	244		
Cooks Point 2	122	391	13, 14
Cooks Point windmill	128	399	14
Cool (Severn River)	77	324	12
Cool 2 (Grove Neck)	25	265	7, 9
Coolspring	234		
Coombs, Robert, south chimney	249		
Coppage	199	521	24
Copper Neck	239		
Copsico (Va.)	249		
Corn (Bretons Bay)	217	550	25
Corn (Chesapeake Bay)	53	278	10, 12
Corn (Eastern Bay)	105	352	12
Corn (Elk River)	32	269	7
Corn (Langford Creek)	69	310	11
Corner (Choptank River)	136	417	14
Corner (Patapsco River)	94	342	8
Corner (Wicomico River)	211	534	25
Corner (Wye River)	116	377	12
Corners wharf chimney	139		14
Cornfield Point	248		
Cornfield tree	248		
Corpse	60	290	11
Corr	57	283	10, 11
Corsica	71	313	11
Cottage (Chesapeake Bay)	53	277	12
Cottage (St. Inigoes Creek)	201	525	24
Coulter	26	266	7
Counallor	72	317	12
Countsman's house, chimney	252		

Station	Position	Description	Sketch
	Page	*Page*	*Number*
Court	32	270	7
Cousin	114	372	12
Cove (Chesapeake Bay)	169	476	16
Cove (West River)	72	316	12
Cove Point	242	------	--------
Cove Point Lighthouse	120	------	15, 16
Covington (Patapsco River)	241	------	--------
Covington (Patuxent River)	247	------	--------
Cow	177	487	17
Cow Creek	246	------	--------
Cox (Crab Alley Bay)	110	362	12
Cox (Manokin River)	180	494	17, 19
Cox (Patapsco River)	240	------	--------
Coxes Creek	105	352	12
Cox's oyster house, flagstaff	181	494	19
Crab (Tangier Sound)	174	483	17
Crab 2 (Honga River)	244	------	--------
Crabb Point	245	------	--------
Crack	152	450	13
Craddock	128	399	15
Craighill Channel front range lighthouse	51	------	10
Craighill Channel rear range lighthouse	51	------	9, 10
Crain	206	533	25
Crane	129	400	15
Crane Point	245	------	--------
Craney, 1898	243	------	--------
Craney, 1906	52	277	12
Craney Island, tree	225	------	27
Creek (Curtis Creek)	89	337	10
Creek (Elk River)	33	270	7
Creek (Irish Creek)	147	441	13
Creek (Patapsco River)	242	------	--------
Creek (Wicomico River)	179	492	17
Cremona	131	406	15
Crisfield Emmanuel Church spire	183	------	19, 21
Crisfield Mt. Pleasant Church spire	183	498	19, 21
Crisp's, G., large house, west chimney	240	------	--------
Crisp's, R. O., barn, east gable	240	------	--------
Crisp's, R. O., house chimney	240	------	--------
Croch	176	485	17
Cromwell	93	341	8
Cross	94	343	8
Crow	71	315	8
Crows nest	55	280	10
Cubitts Creek (Va.)	248	------	--------
Cult	69	311	11
Cummings	141	427	13
Cup (Va.)	183	497	21
Cupola (Potomac River)	249	------	--------
Cupola (Rhode River)	73	318	12
Cupola 2 (Potomac River)	204	------	25
Cupola, Bay Shore	97	------	10
Cupola, Bennet's oyster house	181	495	19
Cupola, near Bitt (Va.)	195	------	24
Currioman (Va.)	249	------	--------
Currioman 2 (Va.)	204	------	25
Curtis	89	337	8, 10
Curtis (West River)	72	316	12
Cut (Grays Inn Creek)	67	304	11
Cut 2 (Va.)	207	------	25, 26
Cut Off Channel front lighthouse	103	------	--------
Cut Off Channel rear lighthouse	103	------	--------
Cutts 2	50	------	12
Cutts Point	238	------	--------
D			
D (Md.-Va. boundary corner)	184	498	21
Dago	197	516	24
Dago reference station	198	------	24
Daisy Marsh (Del.)	248	------	--------
Daisy Marsh 2 (Del.)	185	499	23
Dames Quarter Church, spire	175	485	17
Dan (Harris Creek)	141	427	13
Dan (Little Choptank River)	158	------	14
Dana	251	------	--------
Daniel Lloyd 1	243	------	--------
Daniel Lloyd 2	243	------	--------
Daniel Lloyd 3	243	------	--------
Darce	113	367	12
Dare	243	------	--------
Dare 2	125	393	14
David	157	460	13
Davidson (U. S. E.)	91	339	8
Davis (Langford Creek)	68	307	11
Davis (Sinepuxent Bay)	248	------	--------
Davis 2 (Susquehanna River)	25	266	7
Davis Point	234	------	--------
Day	199	519	24
Days Point	45	273	9
De Sales, cupola	88	------	8
Deal 2	173	481	17, 19
Deal Island colored church, spire	175	485	17
Deal Island church, spire	175	485	17, 19
Dean's Clinton, southeast chimney	249	------	--------
Deck	115	374	12
Deep (Broad Creek)	143	431	13
Deep (St. Marys River)	200	522	24
Deep Cove	68	306	11
Deep Point (Chester River)	237	------	--------
Deep Point (Port Tobacco)	255	------	--------
Deep Point 2 (Chester River)	58	286	11
Deep Point, Mayos Point (South River)	238	------	--------
Deep Point, old wharf (Potomac River)	226	------	27
Deep Water Point	243	------	--------
Deepwater	161	467	14
Deepwater Point	105	352	13
Deewat	117	378	13
Deils Island	245	------	--------
Delahay	153	453	13
Dell	109	358	12
Delta (Broad Creek)	145	436	13
Delta (Rhode River)	73	317	12
Den Creek	246	------	--------
Depot, Lighthouse, east chimney	80	------	12
Derrick, lower, Point Sheridan	227	------	27
Derrick, Point Sheridan wharf	228	------	27
Desert	167	473	15, 16
Deux	152	451	13
Diamond Hall	243	------	--------
Dick's water tank	139	424	14
Dills Hotel, west gable	211	------	25, 26
Dills wharf, outside end	210	------	25, 26
Dining hall elevator, Marshall Hall	227	------	27
Dining pavilion, flagstaff, Marshall Hall	225	------	27
Disposal plant, chimney	97	346	10
Diston's boathouse, flagstaff	31	------	7
Diston's windmill	31	------	7
D. C. boundary stone (Little Fall)	229	560	28
D. C. east corner stone	229	560	28
D. C. north corner stone	229	560	28
D. C. south corner stone	229	559	28
Divide	115	374	12
Dixon	104	351	12
Dobbins 2	85	332	10
Dobbin's flag	84	329	10
Dobbin's house, east chimney	86	------	10
Dock	95	344	8
Doctor (Little Choptank River)	160	465	14
Doctor (Miles River)	118	383	13
Dr. Clough	243	------	--------
Dr. Dorsey	242	------	--------
Dog	141	428	13

Station	Position	Description	Sketch
	Page	*Page*	*Number*
Dogue	221	557	27
Dome	89	337	8, 10
Donaldson (H. B.)	89	336	8
Donoho	246	------	------
Dorney	236	------	------
Dorrance	118	383	13
Dorsey	241	------	------
Dorsey, S. Y., Parran	242	------	------
Dos Passes, flagstaff	196	------	24
Dot	135	416	13, 14
Double	137	419	14
Double Creek Marsh	237	------	------
Double Creek Point	237	------	------
Double signal, target grounds, center	80	------	12
Dove	178	490	17
Dover	244	------	------
Down (Chester River)	61	294	11
Down (Sassafras River)	44	272	9
Draw	119	385	13
Draw, railroad	46	------	9
Drawbridge, railroad, center north end of draw	81	------	12
Dromedary	248	------	------
Druid, Druid Hill Park house	100	348	8
Drum (Langford Creek)	68	306	11
Drum (Pocomoke Sound) (Va.)	184	------	21
Drum (Smith Creek)	197	517	24
Drum Point Lighthouse	121	------	15, 16
Dubois sawmill, brick stack	30	------	7
Duck (Choptank River)	137	420	14
Duck (Elk River)	32	270	7
Duck (Honga River)	170	477	16, 17
Duck blind, old, off Blakistone Island	208	------	25
Duke	247	------	------
Duke 2	247	------	------
Dulce	231	563	28
Dull	111	363	12
Dumb	39	------	7
Dundalk	90	338	8
Dune	216	546	25
Dunk	141	426	13
Dunmead's city malt house, vane	101	------	------
Dunn	140	424	13
Dunn (Va.)	221	558	27
Dunnock	127	398	16
Dupont	157	461	14
Dusky	202	526	24
Dutchman 2	50	275	12
Dutchmans Point	238	------	------
Dwarf	131	408	15
Dyke (Va.)	221	558	27
Dynard	215	544	25
E			
E. B	242	------	------
E. Lloyd	243	------	------
Eagle (Harris Creek)	140	424	13
Eagle (Langford Creek)	68	308	11
Eagle Point	243	------	------
Ear	176	485	17
Earle (Corsica River)	71	313	11
Earle (Nanticoke River)	177	489	17
East	182	496	21
East barn, near Carpenter, cupola	30	------	7
East Brooklyn standpipe	98	------	8
East Cambridge spire	139	423	14
East Cambridge, tall stack	139	424	14
East corner stone, D. C	229	560	28
East end	163	469	14
East Hub (Va.)	207	------	25
East Nomini (Va.)	250	------	------
East St. Marys Point	253	------	------
Eastern Neck Inlet	237	------	------
Eastman	145	435	13
Easton	118	384	13
Ebitt's house, south chimney (Va.)	249	------	------
Eckstein's house, northeast corner (Va.)	210	------	25
Edgewater smithy, southeast gable	243	------	------
Edmond	141	426	13
Edward	114	371	12
Edwards	253	------	------
Eedling	212	535	25
Egg	173	481	17, 19
Egg Hill	235	------	------
Eldridge	235	------	------
Eleanor	160	465	14
Electric (U. S. E.)	89	336	8
Electric plant, chimney	97	345	8
Elevator	88	335	8
Elevator B, belfry	101	349	------
Elevator C, chimney	241	------	------
Elevator pier, Western Maryland (U. S. E.)	92	340	8
Elk (Elk River)	32	269	7
Elk (Elkton)	34	------	7
Elk River boarding house, west chimney	35	------	7
Elkton:			
Catholic Church spire, cross	37	------	7
M. E. Church, spire	37	------	7
Paper factory, brick stack	37	------	7
Schoolhouse, flagpole	37	------	7
Ella (Back Creek)	38	------	7
Ella (Wicomico River)	179	490	17
Elliason	57	283	10, 11
Elliot	236	------	------
Elliott	176	486	17
Ellis (Potomac River)	250	------	------
Ellis (Wicomico River)	178	489	17
Ellpow	186	503	23
Elmore	147	440	13
Emerson tower	98	346	8
Emmanuel Church, Crisfield, spire	183	------	19, 21
Emory, 1845 (Chester River)	237	------	------
Emory, 1909 (Chester River)	62	297	11
End (Harris Creek)	142	430	13
End (Holland Island)	168	------	18, 19
End (Sassafras River)	43	272	9
End (Va.)	207	------	25, 26
End (Wicomico River)	179	492	17
End of wharf, Bryants Point	227	------	27
Engine house flag pole, Marshall Hall	227	------	27
Engineer	71	314	11
Engineer's flag No. 6½ (U. S. E.)	222	556	26
Engineer's flag No. 7 (U. S. E.)	222	556	26
Enough	197	517	24
Enter	136	417	13
Episcopal Church, Cambridge, spire	139	------	14
Episcopal Church, Centerville, spire	66	------	11
Episcopal Church, St. Marys, cross	201	525	24
Episcopal High School, Alexandria (Va.)	230	------	------
Ese	34	270	7
Estep	247	------	------
Etna	73	318	12
Etta	160	465	14
Evans (lower Chester River)	60	289	11
Evans (Smith Island)	246	------	------
Evans (upper Chester River)	62	296	11
Ewell Church, Smith Island, spire	169	476	19, 20, 21
Experiment Station, Annapolis, outer vent	80	------	12

Station	Position	Description	Sketch
F	*Page*	*Page*	*Number*
F. S. Royster	87	334	8
Face	119	387	13
Fact	212	536	25
Factory:			
Guano, cupola	100	348	8
Lewis's, old, iron chimney	196	------	24
Ober & Sons' guano, cupola	101	349	8
Paper, Elkton, brick stack	37	------	7
Sandy Point, north gable (Va.)	196	------	24
Stack, pipe	197	------	24
Fair	117	379	13
Fair Point	236	------	------
Fairbanks	146	437	13
Fairfax (Va.)	220	556	27
Fairhaven	242	------	------
Fairhaven 2	122	391	13
Fairlee, tower No. 10	54	279	9
Fairmount church spire	180	493	19
Fairoak	251	------	------
Fairoak 2	219	555	26
Fairview (Elk River)	235	------	------
Fairview, 1846 (Miles River)	243	------	------
Fairview, 1899 (Miles River)	106	353	13
Far	246	------	------
Far (chimney)	81	------	12
Farm	176	486	17
Farr	211	535	25
Fassett	187	503	23
Fauntleroy's house (Va.)	249	------	------
Federal	99	347	8
Federal (U. S. E.)	93	341	8
Federal Hill	240	------	------
Federal Hill Observatory	240	------	------
Fell	96	345	8
Fell (U. S. E.)	102	349	8
Fell Roof (U. S. E.)	93	------	8
Fence (Back Creek)	38	270	7
Fence (Bretons Bay)	216	546	25
Fenghagen	99	348	8
Fenwick	248	------	------
Fenwick Island Lighthouse (Del.)	185	------	23
Ferguson	235	------	------
Ferry (Baltimore)	241	------	------
Ferry (Choptank River)	135	414	14
Ferry (Magothy River)	84	329	10
Ferry (South River)	238	------	------
Ferry (Wye River)	113	367	12
Ferry Bar (U. S. E.)	92	340	8
Ferry Point	253	------	------
Ferry Point, 1862 (Va.)	252	------	------
Ferry Point, 1902 (Va.)	221	557	27
Fidelity (U. S. E.)	91	339	8
Field (Elk River)	32	269	7
Field (Severn River)	77	323	12
Fig	118	383	13
Fight	130	405	15
Finish	164	471	14
Finlay	19	259	6
Fir	59	288	11
Fire (U. S. E.)	103	350	8
Firing Point, front range	193	512	24
Firing Point, front range, trial	193	512	24
Firing Point, rear range, Combs	203	528	24
First	149	443	13
Fish, 1901 (Fishing Bay)	176	485	17
Fish, 1910 (Fishing Bay)	176	485	17
Fish house:			
Chapman's, river gable	225	------	27
Chimney	250	------	------
Chimney (Va.)	250	------	------
Large, north gable end (Va.)	250	------	------
Middle of door (Va.)	249	------	------
North Indianhead, near	251	------	------
Sycamore, near, white chimney (Va.)	251	------	------
West chimney	252	------	------
Fish house—Continued.	*Page*	*Page*	*Number*
West gable	251	------	------
White chimney	251	------	------
White, chimney (Va.)	250	------	------
Fish weir, red flag	42	------	7
Fishbone (Va.)	172	481	20, 21
Fisherman's shed, west apex (Va.)	250	------	------
Fishers Point (Va.)	249	------	------
Fishery (Va.)	219	554	26
Fishing	89	336	8, 10
Fishing Battery flagstaff	29	------	7
Fishing Battery Lighthouse	29	------	7
Fishing Creek (Honga River)	245	------	------
Fishing Creek (South River)	238	------	------
Fishing Point (Fishing Bay)	245	------	------
Fishing Point (Patapsco River)	239	------	------
Fishing Point flag (Va.)	249	------	------
Fishing Point hickory tree	240	------	------
Fishstack	133	412	15
Fitz	180	494	17, 19
Flack	241	------	------
Flack Bros. distillery, Baltimore	101	349	8
Flag A, hydrographic signal	39	------	7
Flag B, hydrographic signal	39	------	7
Flag on shanty	39	------	7
Flag Pond	121	389	14, 15
Flagpole (Elk River)	36	------	7
Flagpole (Smith Creek)	197	518	24
Flagpole below Marshall Hall	227	------	27
Flagstaff, Blair's	233	------	28
Flagstaff, Bryants Point	227	------	27
Flagstaff Camp	239	------	------
Flagstaff, Fort Hunt, (Va.)	227	------	27
Flagstaff, Indian Head	228	------	27
Flagstaff, Mount Vernon, (Va.)	227	------	27
Flat (Smith Creek)	197	518	24
Flat (Wye River)	114	371	12
Flat Cap	173	482	19
Flat Mound	248	------	------
Flood	89	337	8, 10
Fodder	132	410	15
Fog 2	167	473	18, 19, 20
Fog 3	168	------	18, 19, 20
Fog bell, Fort Washington, finial	226	------	27
Fog Point Light	246	------	------
Foley	99	347	8
Folks	235	------	------
Foot	95	343	8
Forbes	249	------	------
Force	125	393	13
Ford (Big Annemessex River)	181	495	19
Ford (Chesapeake Bay)	168	474	16, 18
Ford (Elk River)	235	------	------
Ford (Langford Creek)	69	308	11
Ford (Sassafras River)	235	------	------
Ford 2 (Elk River)	31	269	7
Ford's barn cupola	181	495	19
Ford's farm	235	------	------
Fords Landing	235	------	------
Fore	67	304	11
Forest Glen, standpipe	233	------	28
Fork	56	282	10, 11
Forr	130	405	15
Fort (St. Marys River)	199	520	24
Fort (Severn River)	79	328	12
Fort Avenue	240	------	------
Fort Avenue, east base	242	------	------
Fort Avenue, west base	242	------	------
Fort:			
Alexandria, Redoubt Davis flagstaff	253	------	------
Bayard, flagstaff	252	------	------
Carroll Light	239	------	------
Carroll Lighthouse, 1896	241	------	------
Carroll Lighthouse, 1915	96	345	8, 10
Franklin, Redoubt Kirby flagstaff	253	------	------
Howard, taller water tank	98	347	10

Station	Position	Description	Sketch
Fort—Continued.	*Page*	*Page*	*Number*
Hunt, flagstaff (Va.)	227	------	27
Hunt, water tower (Va.)	227	------	27
Light	241	------	--------
McHenry, flagstaff	97	346	8
McHenry light	97	345	8
McHenry, most eastern salient	97	346	8
McHenry, parapet	239	------	--------
Mansfield, flagstaff	253	------	--------
Marcy, flagstaff (Va.)	253	------	--------
Marshall, flagstaff	240	------	--------
Meigs, flagstaff	253	------	--------
Most eastern salient of Fort McHenry	97	346	8
Ripley, Redoubt cross flagstaff	253	------	--------
Severn, flagstaff	238	------	--------
Simmons, flagstaff	253	------	--------
Sumner, camp, flagstaff	253	------	--------
Washington	252	------	--------
Washington, flagstaff	252	------	--------
Washington, fog bell tower, finial	226	------	27
Washington, lighthouse finial	226	------	27
Fort Point	253	------	--------
Fowler	247	------	--------
Fox (Harris Creek)	141	427	13
Fox 2 (Great Fox Island) (Va.)	246	------	--------
Fox Ferry, 1862 (D. C.)	252	------	--------
Fox Ferry, 1884 (D. C.)	252	------	--------
Fox Ferry boundary stone	228	------	--------
Fox Hill house, chimney	47	------	--------
Fox Island, (Va.)	246	------	--------
Fox Island poplar (Va.)	175	485	21
Foxes den	238	------	--------
Foxwell	217	550	25
Foxwell, S., center chimney	254	------	--------
Frank	111	364	12
Franklin 2	125	------	13
Franklin 1906	126	396	13
Franklin Point	242	------	--------
Franklin's windmill	242	------	--------
Franks Island	245	------	--------
Frazer	244	------	--------
Free	41	------	7
Freeman	44	272	9
Freestone flag (Va.)	251	------	--------
Freestone Point (Va.)	251	------	--------
Fritz	223	557	27
Frog	174	484	17
Frog Pond Hill	238	------	--------
Front	127	398	13
Front Range:			
4,000-yard	193	513	24
8,000-yard	194	513	24
12,000-yard	194	513	24
16,000-yard	194	515	24
20,000-yard	195	515	24
Light, Hawkins Point	103	------	--------
Trial, 4,000-yard	193	512	24
Trial, 8,000-yard	193	513	24
Trial, 12,000-yard	194	513	24
Trial, 16,000-yard	194	514	24
Trial, 20,000-yard	195	515	24
Fun	33	------	7
Furnace	29	------	7
Furst	88	334	8
Futy's windmill, center	35	------	7
G			
Gable	240	------	--------
Gable, white, between chimneys	80	------	12
Gail & Ax, tobacco manufactory, vane	100	348	8
Gales farm, tower No. 12	54	279	10
Gander	138	421	14
Gantt	186	500	23
Gantt, astronomic latitude station	22	------	23
Gap	184	------	19, 21
Garfield	231	562	--------
Garrity	241	------	--------
Gas	99	347	8
Gas (U. S. E.)	89	336	8
Gas company, stack	98	346	8
Gash	151	448	13
Gauld	237	------	--------
Geog	181	495	19
George (Va.)	207	533	25
George No. I	249	------	--------
George No. II	253	------	--------
Georges Point windmill	42	------	7
Gerst	231	562	28
Gibbs	117	380	13
Gibson	106	353	13
Gibsons Heights	236	------	--------
Gibsons Island	236	------	--------
Gibsons Island 2	236	------	--------
Gill (U. S. E.)	102	350	8
Gilliam	247	------	--------
Gingawill Creek	238	------	--------
Ginger	75	320	12
Ginies Point	254	------	--------
Gis	154	455	13, 14
Glass	242	------	--------
Glebe Creek (Va.)	249	------	--------
Glory Point	244	------	--------
Glymont	220	556	27
Glymont, house near, white chimney	225	------	27
Glymont pavilion	251	------	--------
Glymont wharf house	225	------	27
Go	115	374	12
Godding	229	559	28
Godfrey	229	560	28
Gods Graces Point	247	------	--------
Gold	148	------	13
Goldman's house, northeast chimney (Va.)	250	------	--------
Golds	149	444	13
Goldsborough (Choptank River)	244	------	--------
Goldsborough (Miles River)	243	------	--------
Goldsborough (Sassafras River)	235	------	--------
Goose (Choptank River)	135	415	14
Goose (Goose Island) (Va.)	246	------	--------
Goose (Grays Inn Creek)	67	304	11
Goose (St. Georges River)	203	528	24
Goose Harbor (Va.)	246	------	--------
Goose Point	244	------	--------
Gordon	59	288	11
Goughs, W	254	------	--------
Gov	123	------	14
Gover	177	488	17
Gowan	238	------	--------
Gowan 2	73	------	12
Gowan 3	74	319	12
Gowan 1906	74	319	--------
Gown Bank	238	------	--------
Grace	142	428	13
Grace M. E. Church (Va.)	189	500	22
Graces Point	45	273	9
Graces Quarter	236	------	--------
Graces Quarter 2	45	273	9
Grace's quarter, cupola	46	------	9
Grace's quarter, east chimney; Carroll Island clubhouse	236	------	--------
Grace's quarter, house, chimney	46	------	9
Grain	198	------	--------
Gram (Broad Creek)	145	434	13
Gram (Severn River)	77	324	12
Gram 1906 (Severn River)	75	322	12
Grammars Bank	238	------	--------
Granary	115	376	12
Grandview (Del.)	234	------	--------
Grason	202	526	24

Station	Position	Description	Sketch
	Page	*Page*	*Number*
Grass	32	269	7
Gratitude	56	281	10, 11
Grave	145	435	13
Gravel (H. B.)	88	335	8
Gravel (St. Marys River)	200	521	24
Gravelly Hill	234	------	--------
Gravelly Point	238	------	--------
Graves's barn, west gable	240	------	--------
Graves's house, west chimney	240	------	--------
Graveyard, Havre de Grace, cross	29	------	7
Graveyard, Havre de Grace, monument	29	------	7
Graveyard, Havre de Grace, monument	29	------	7
Gray	67	305	11
Grays Hill	29	269	7
Grays Inn Point	57	285	11
Grays Island	245	------	--------
Great	127	398	13
Great Shoals Lighthouse	178	------	17
Greek	109	358	12
Green (Bohemia River)	41	------	7
Green (Eastern Bay)	107	355	12
Green (Manokin River)	180	493	17, 19
Green Beach	248	------	--------
Green cupola B. & O. Piers 8 and 9	101	349	8
Green Mount Cemetery, spire	240	------	--------
Green Run	248	------	--------
Green Run Inlet L. S. S. flagstaff	189	508	22
Greenbury 2	79	------	12
Greenbury Point	238	------	--------
Greenbury Point, 1906	79	------	12
Greenbury Point, 1910	53	279	12
Greenbury Point, pole on	82	------	12
Greenbury Point Shoal Lighthouse	83	------	12
Greenpile	241	------	--------
Greens Island	246	------	--------
Greenwell (Bretons Bay)	254	------	--------
Greenwell (Little Choptank River)	156	459	14
Greenwood (Chesapeake Bay)	236	------	--------
Greenwood (Eastern Bay)	105	352	12
Gregg	235	------	--------
Griffith	248	------	--------
Grimes (Va.)	250	------	--------
Grimes 2 (Va.)	219	------	26
Grimes house, south chimney (Va.)	250	------	--------
Grind	199	520	24
Grove (Bretons Bay)	216	546	25
Grove (Patuxent River)	133	412	15
Grove (Reeds Creek)	71	315	11
Grove Fishery	235	------	--------
Grove Point	27	268	--------
Grove Point	234	------	9
Grove Point 2	43	271	9
Grovers Hill	235	------	--------
Grubin	154	455	13, 14
Guano Factory cupola	100	348	8
Guess Point	254	------	--------
Guest	215	543	25
Guilbert's cupola	189	507	22
Guilford Island (Va.)	246	------	--------
Guither	203	530	24
Gull	186	502	23
Gum Island	246	------	--------
Gunners	171	479	16
Gunsen Cove (Va.)	252	------	--------
Gunston (Va.)	223	557	27
Gurten	254	------	--------
Gurten's J., house, chimney	254	------	--------
Gust	212	535	25
Gusta	115	373	12
Gut (Langford Creek)	70	312	11
Gut (Potomac River)	220	556	27
Gut Landing	252	------	--------
Gwynn	95	344	8
Gymnasium, Annapolis northeast corner	82	------	12
H			
H. J. Kaywood	254	------	--------
Hackett 2	47	------	12
H. Tower	27	268	7, 9
Hackett, 1906	52	------	12
Hackett, 1910	53	278	12
Hacketts Point	238	------	--------
Haddaway	107	354	13
Hail Point	237	------	--------
Hail Point 2	57	284	11, 12
Haines	172	480	17
Hall (Miles River)	117	381	13
Hall (Potomac River)	190	509	24
Hall (Sassafras River)	235	------	--------
Hall (Tangier Sound)	172	480	17
Hall 2	193	511	24
Hallowing	131	409	15
Hallowing Point (Va.)	251	------	--------
Hallowing Point (Va.)	223	557	27
Hall's house, middle chimney	195	516	24
Ham, (Broad Creek)	143	431	13
Ham (Magothy River)	84	329	10
Ham (Miles River)	117	381	13
Hambleton (Eastern Bay)	105	352	13
Hambleton (Thirdhaven Creek)	243	------	--------
Hambletons Island	244	------	--------
Hambrook	134	414	14
Hambrooks Bar beacon	139	424	14
Hambrooks Point	244	------	--------
Hamilton (Sinepuxent Bay)	186	501	23
Hamilton, 1886 (Patapsco River)	95	344	8
Hamilton, 1896 (Patapsco River)	99	------	10
Hammersly (Va.)	252	------	--------
Hammett (St. Marys River)	201	524	24
Hammett (Wicomico River)	254	------	--------
Han (U. S. E.)	89	335	8
Hance house chimney	128	------	14
Hance Point 2	26	266	7
Hances Point	235	------	--------
Hancock's house, chimney	239	------	--------
Handy Hammock	187	505	22
Handy Point	236	------	--------
Hanna	87	334	8
Hard (Back Creek)	38	270	7
Hard (Chesapeake Bay)	121	390	14
Hard (Wicomico River)	211	534	25
Hardy	253	------	--------
Hardys Hole Island	248	------	--------
Harewood	236	------	--------
Harmon (Patapsco River)	93	341	8
Harmon (Sinepuxent Bay)	186	501	23
Harp	70	312	11
Harper (Broad Creek)	147	440	13
Harper (Sassafras River)	43	271	9
Harrington	164	471	14
Harris (Chester River)	237	------	--------
Harris (Still Pond)	24	265	9
Harris Creek	244	------	--------
Harris's, Mrs., house southeast chimney	250	------	--------
Harrison (Chester River)	237	------	--------
Harrison (Harris Creek)	142	429	13
Harrison (Patapsco River)	96	344	8
Harry	153	453	13
Hartley (Del.)	21	263	6
Harts Hill	235	------	--------
Harts Island	236	------	--------
Harts Island house flagstaff	240	------	--------
Has	173	482	19
Hat Crown Point	246	------	--------
Hatton	252	------	--------
Haven (Choptank River)	134	------	13, 14
Haven (Swan Creek)	56	282	10, 11
Havre de Grace	234	------	--------

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Havre de Grace 2	25	266	7
Havre de Grace:			
Graveyard cross	29		7
Graveyard monument	29		7
Lighthouse	29		7
Spire	235		
Hawk (Harris Creek)	141	426	13
Hawk (Little Choptank River)	155		14
Hawkins Point	239		
Hawkins Point 2	239		
Hawkins Point 3	241		
Hawkins Point 4 (U. S. E.)	241		
Hawkins Point, Brewerton Channel front lighthouse	103		
Hawks nest (Bretons Bay)	254		
Hawks nest (Chincoteague Bay)	248		
Hawks nest (Potomac River)	248		
Hayden	212	536	25
Haywood (St. Marys River)	253		
Haywood (Thirdhaven Creek)	243		
Hazel	254		
Hazzard	173	481	19
He	41	271	7
Head	175	484	17, 18
Head of Christine	234		
Healey (Bretons Bay)	217	548	25
Healey (Island Creek)	153	454	13
Hebb's old house, river gable	208		24, 25
Hedge	161	468	14
Hedney	211	535	25
Hell Hole Point (Va.)	252		
Hellen	129	401	15
Hen	141	425	13
Henderson	118	384	13
Henry (Baltimore)	95	343	8
Henry (Hudson Creek)	159	464	14
Here	110	361	12
Heron	213		25
Herr	107	356	12, 13
Herring	67	305	11
Herring Island	243		
Herring Pond (Va.)	249		
Herring Pond 2 (Va.)	204		25
Hickory 2	85	330	10
Hickory Cove	245		
Hickory Point (Honga River)	245		
Hickory Point (Magothy River)	239		
Hickory tree	254		
Higgins Point 2	204		25
High (Chester River)	64	299	11
High (Elk River)	34	270	7, 9
High (Fishing Bay)	176	487	17
High (Severn River)	79	328	12
High Bank (Choptank River)	244		
High Bank (Patuxent River)	247		
High Bank 2 (Patuxent River)	247		
High field	255		
High Hill	247		
High Lands of Narrows	234		
High Point, 1862 (Va.)	251		
High Point, 1902 (Va.)	223	557	27
High school, Chesapeake City, cupola	40		7
High tree (Va.)	252		
Higher	152	451	13
Hill (Elk River)	33		7
Hill (Little Choptank River)	155	457	14
Hill (near D. C.)	20	260	6, 28
Hill 2 (South River)	74		12
Hill 1906 (South River)	75	321	12
Hill, astronomic latitude station (near D. C.)	22		
Hill Point (Little Choptank River)	23	263	6, 14
Hill Point 2 (Little Choptank River)	121		14
Hills Point (South River)	238		
Hilly Hummock	245		
Hoar's house, east chimney (Va.)	251		
Hobb's, Thomas, quarters, chimney	249		
Hog	168	475	19, 20, 21
Hog 2 (Patuxent River)	121	390	15, 16
Hog Island (Choptank River)	244		
Hog Island (Patuxent River)	246		
Hog Island (Potomac River) (Va.)	248		
Hog Island 2 (Potomac River) (Va.)	190		24
Hog Island 4 (Potomac River) (Va.)	193	511	24
Hog Neck	246		
Holland (Herring Bay)	127	396	13
Holland (Holland Island)	23	264	6
Holland (Slaughter Creek)	162		14
Holland (Wicomico River)	179	491	17
Holland 2 (Chesapeake Bay)	124		13
Holland 3 (Chesapeake Bay)	126	394	13
Holland Island 2	164		18, 19
Holland Island Bar Lighthouse	164		18, 19
Holland Island church spire	169		18, 19
Holland north 2	124		13
Holland Point	247		
Holland Point 2	247		
Hollands Cliffs	247		
Hollands Point (Chesapeake Bay)	242		
Hollands Point (South River)	238		
Hollands Point north (Herring Bay)	242		
Holliday	243		
Hollidays	237		
Hollis (Bush River)	236		
Hollis (Va.)	249		
Hollis 2 (Va.)	204		25
Hollis' shed, chimney (Va.)	249		
Hollow	217	548	25
Holly	147	439	13
Holly Point north	236		
Holly Point south	236		
Holmead	230	562	28
Holton Point	58	285	11
Home	230	561	
Hominy (U. S. E.)	89	336	8
Honory Point	235		
Hoo	70	311	11
Hood	105	352	12
Hoof	85		10
Hook	113	369	12
Hoop (Hooper Island)	168	475	16, 17, 18
Hoop (Little Choptank River)	155	457	14
Hooper Island Lighthouse	165		16
Hooper Island north end church spire	128		16
Hooper Point 3	155		14
Hooper Strait Lighthouse	170		16, 17, 18
Hoopers Point	245		
Hoopersville M. E. Church spire	170	480	16
Hope (Chester River)	63	298	11
Hope (Cox Creek)	110	360	12
Hope (east of Centerville)	21	262	6, 11
Hopewell	237		
Hopkins (Broad Creek)	144	434	13
Hopkins (Herring Bay)	127	397	13
Hopkins Memorial Church spire	171	479	16, 17
Horn (Choptank River)	134	413	14
Horn (Magothy River)	84	330	10
Horn (Severn River)	79		12
Horn 3 (Severn River)	243		
Horn 1910 (Severn River)	79	328	12
Horn Point (Choptank River)	244		
Horn Point (Potomac River) (Va.)	249		
Horner	99	347	8

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Hornor	68	307	11
Horse (Va.)	174	483	19, 20, 21
Horse Hammock	183	498	19, 20, 21
Horse Hummock	246	------	--------
Horseshoe	200	523	24
Horseshoe 2 (Chesapeake Bay)	47	274	12, 13
Horseshoe Point	238	------	--------
Hosier Memorial Church spire, 1898	244	------	--------
Hosier Memorial Church spire, 1910	171	480	16
Hospital:			
Baltimore	240	------	--------
Johns Hopkins, Baltimore	101	349	8
Naval, Annapolis, *cupola*	81	------	12
Hotel:			
Bay Ridge, east chimney	80	------	12
Colonial Beach, main gable (Va.)	210	------	25
Coltons, southeast chimney	209	------	25
Dills	211	------	25, 26
Hough	112	364	12
House	138	422	14
House (U. S. E.)	91	339	8
House:			
Baker's, Captain	223	------	26
Bareda, cupola	127	398	15
Beale's southeast chimney	196	------	24
Bell's, Colonial Beach (Va.)	210	------	25
Black Marsh, north chimney	55	------	10
Blake's chimney	86	------	10
Blakistone Island, red roof	209	------	25
Blakistone Island, striped roof	209	------	25
Bluff, above Indianhead	226	------	27
Bluff, south chimney	255	------	--------
Carpenter	223	------	26
Chair's, east chimney	99	------	10
Chapman's, cupola	226	------	27
Chapmans Landing, below	225	------	27
Chiseltine's east chimney	209	------	25
Claggett's, northeast chimney	211	------	25
Clarke's, north chimney	65	------	11, 12
Collin's red spire	139	------	13
Craney Island	251	------	--------
Dobbin's, east chimney	86	------	10
East chimney	39	------	7
Eckstein's, northeast corner (Va.)	210	------	25
Fox Hill, chimney	47	------	--------
Glymont, white chimney	225	------	27
Grace's quarter, chimney	46	------	9
Hall's, middle chimney	195	516	24
Hance, chimney	128	------	14
Hebb's old, river gable	208	------	24, 25
Hungerford's, chimney	227	------	27
Large, north chimney	35	------	7
Large, south chimney	35	------	7
Large, unpainted, southwest chimney	99	------	10
Lavender, center of triangular roof	209	------	25
Litchfield, chimney	47	------	9
Loker's, pediment, front portico	196	------	24, 25
Marlborough Hill, north chimney (Va.)	251	------	--------
Marlborough Point, north chimney (Va.)	251	------	--------
Maxwell, chimney	46	------	9
Near Rosiers Creek, northeast chimney (Va.)	250	------	--------
Near station Next, south gable	31	------	9
Next, near Pamunkey, front gable	225	------	27
Nichols, southeast chimney	66	------	11

Station	Position	Description	Sketch
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Northeast of Pov, north chimney	158	------	14
Notley Hall	228	------	27
Old, Mockley Point	226	------	27
Old yellow, chimney	226	------	27
Petry's, west chimney	46	------	9
Portico over door, east chimney (Va.)	251	------	--------
Priest's, St. Inigoes	208	------	25
Rembolt's, east chimney	46	------	9
Rembolt's, west chimney	46	------	9
River Farm, cupola	227	------	27
Rock Creek, north end	239	------	--------
Rozier's, west gable	227	------	27
Shipping Point, north chimney (Va.)	251	------	--------
Six chimneys, center chimney, south end	251	------	--------
Snow Hill, chimney	240	------	--------
Sparrow Point, cupola	239	------	--------
Taylor, south chimney	31	------	9
Three-chimney, east chimney	65	------	11, 12
Travis Point, southeast chimney (Va.)	196	------	24
Two-and-a-half story, brick chimney, A	222	------	26
Welch's, west chimney	86	------	10
Wetherall's, east chimney	37	------	7
White, chimney	226	------	27
White chimney, black top	250	------	--------
White, northeast chimney	128	399	16
White, south gable	82	------	12
White, southeast chimney	209	------	25
Window near top, southwest gable	239	------	--------
Wright's west chimney	65	------	11, 12
Yellow, red roof, chimney	227	------	27
Yellow, south chimney	80	------	12
Yellow, west chimney	35	------	7
House of Refuge	240	------	--------
How	132	411	15
Howard (Assawoman Bay)	185	490	23
Howard (Choptank River)	137	418	14
Howard (Patapsco River)	86	333	10
Howard (Potomac River) (Va.)	190	509	--------
Howards	214	541	25
Howard's, Lynn, northwest chimney	253	------	--------
Howards Point	253	------	--------
Howell Point 2	24	265	9
Howell Point, 1918	27	267	9
Howell Point, tower No. 5	27	268	9
Howells	134	413	14
Howells Point	244	------	--------
Howells Point, 1844	234	------	--------
Hubbard's, Jeremiah, northeast chimney	254	------	--------
Huddle	84	329	10
Hudson	156	459	14
Hudsons Creek	245	------	--------
Huggin Point, flag	254	------	--------
Hugh	160	465	14
Hughes (U. S. E.)	102	350	8
Hull Creek house, north chimney (Va.)	248	------	--------
Hulls Neck (Va.)	248	------	--------
Hungerford	247	------	--------
Hungerford's house, chimney	227	------	27
Hunter	150	446	13
Hunting	117	381	13
Hunting Creek (Choptank River)	244	------	--------
Hunting Creek (Potomac River) (Va.)	252	------	--------
Hunting Hill	232	------	--------
Huntingfield Bank	50	276	10, 11
Huntingfield Bank, tower No. 15	54	280	10, 11

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Hurtz	235		
Hut	138	423	14
Hutchins	130	403	15
Hyattsville tank	233		28
Hydrographic	71	314	11
Hydrographic signal	46		9
I			
Ide	70	312	11
Ila	148	441	11
Ill	122	391	13
Ill 2	126	395	13
In (Bohemia River)	42		7
In (Smith Creek)	197	516	24
Indian (Chester River)	60	291	11
Indian (Harris Creek)	140	424	13
Indian (Patuxent River)	131	408	15
Indianhead, 1862	251		
Indianhead, 1902	220	556	27
Indianhead:			
Flagstaff	228		27
House on bluff above, lower chimney	226		27
Iron chimney	223		27
Iron derrick on wharf	226		27
Standpipe	228		27
White house, chimney	226		27
Inez	154	456	13, 14
Ing	62	297	11
Ingraya	187	504	22, 23
Inigoes (Chesapeake Bay)	244		
Inigoes (St. Marys River)	201	525	24
Inkquill	186	502	23
Inn	67	302	11
Insane (D. C.)	230	561	
Insley's Mill	245		
Irish	147	441	13
Iron	86	332	10
Iron 2	85	331	10
Iron chimney, Indianhead	223		27
Iron derrick on wharf, Indianhead	226		27
Iron Hill (Del.)	234		
Iron Ore (U. S. E.)	91	339	8
Iron smokestack	35		7
Isaac	158	462	14
Island, 1898 (Elk River)	33	270	7
Island, 1903 (Severn River)	79	328	12
Island, 1908 (Patuxent River)	130	404	15
Island, 1909 (Del.)	185	499	23
Island, 1909 (Grays Inn Creek)	67	303	11
Island House, chimney	254		
Isle (Langford Creek)	68	307	11
Isle (Va.)	246		
Isle of Wight, L. S. S. tower	188		23
Ivee	179	491	17
J			
J. W. Merritt	237		
Jackson	161	468	14
Jackson Creek wharf house ventilator	65		11, 12
Jacob	244		
Jam	138	421	14
Jamaica	135		14
Jamaica Point	244		
James (James Island)	155	457	14
James (Wye River)	111	364	12
James Island	242		
James Point	244		
James Point 2	121		14
Janes Island	246		
Janes Island Lighthouse	173		19, 21
Jarrett	61	292	11
Jay	153	452	13
Jean	180	493	17, 19
Jenifer	159	463	14
Jenkins	134	414	14
Jephson	242		
Jere	136	417	13, 14
Jim	155	457	14
Jip	165		16
Johnnie	99	347	10
Johns	34	270	7
Johns Hopkins Hospital	101	349	8
Johnson (Back River)	237		
Johnson (Holland Straits)	167	473	18, 19
Johnson(Honga River)	245		
Johnson (Miles River)	118	384	13
Johnson (Patapsco River)	95	343	8
Jones (Fishing Creek)	161	467	14
Jones (Smith Island)	246		
Jones (Wicomico River)	179	491	17
Jones 1	248		
Jones 2	246		
Jones Island	245		
Jones Point (Va.)	252		
Jones Point (Lighthouse) (Va.)	228		
Joseph	167	473	19, 20
Joseph Hudson's west chimney (Va.)	249		
Joshua	174	482	19
Journey	61	293	11
Judge	147	439	13
Juliet	177	488	17
Julius	61	295	11
June	113	369	12
Jutland	197	518	24
K			
K Tower	27		7, 9
Katz	43	271	9
Kaywood	215	545	25
Kaywood 2	206	532	25
Kaywood, H. J	254		
Kearney	206	533	25
Keenes	171	479	16
Kelley	180	492	17, 19
Kelsoe	94	342	8
Kemp	107	354	12, 13
Kemp Tower	108	388	12, 13
Ken	231	563	28
Kennard	236		
Kennedy	199	520	24
Kent (Chester River)	63	298	11
Kent (Del.)	21	263	6
Kent (Island Creek)	153	453	13
Kent 2	236		
Kent 3	236		
Kent Island 1	236		
Kent Island, north base	19	260	6, 12
Kent Island, south base	19	260	6, 12
Kent Island speed course, north base	55		12
Kent Island speed course, north front range	55		12
Kent Island speed course, north rear range	55		12
Kent Island speed course, south base	55		12
Kent Island speed course, south front range	55		12
Kent Island speed course, south rear range	55		12
Kent Island, wharf house belfry	65		11, 12
Kent Point	104	351	12, 13
Kerwin	171	479	16
Key (Patapsco River)	90	338	8
Key (Wicomico River)	212	537	25
Kid	33		7
King	68	307	11
Kingscote (Va.)	248		
Kingstown	244		
Kinsale Point (Va.)	249		
Kinsley	69	308	11
Kirby (Chester River)	237		
Kirby (Choptank River)	134	414	14
Kirby (Fishing Creek)	161	467	14

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Kirk	118	382	13
Kirwan	111	363	12
Kit	154	455	13
Kits Point	253	------	------
Kitt	131	406	15
Kitts Point 2	190	------	24
Kitts Point 3	192	510	24
Kitts Point beacon No. 1	253	------	------
Kitts Point, house near, chimney A	195	------	24
Kitts Point, house near, chimney B	195	------	24
Kitts Point, pine tree	198	------	24
Klein eccentric (U. S. E.)	92	------	8
Knabe's piano factory, cupola	100	349	8
Knee	113	369	12
Knight	64	300	11
Knight (Va.)	220	556	27
Knights Island	235	------	------
Knights of Pythias flagstaff	133	412	15
Knob	77	------	12
Knob 2	77	324	12
Knock	110	360	12
Koot	141	428	13
L			
L Tower (new)	26	267	9
L Tower (old)	27	267	9
Labor	199	519	24
Lacey	48	274	10, 11, 12
Lackey	207	533	25
Lacy	63	298	11
Lake	81	------	12
Lakes	171	478	16
Lan	154	455	13, 14
Lancaster	254	------	------
Lancaster Wharf	254	------	------
Landeye	153	452	13
Landing	109	360	12
Landlet	188	506	22
Landover, barn, east of	233	------	28
Laney	160	464	14
Langford	59	289	11
Lantern	28	269	9
Large brick chimney, old cabin above Pamunkey	225	------	27
Large house, north chimney	35	------	7
Large house, south chimney	35	------	7
Large tree	239	------	------
Large unpainted house, southwest chimney	99	------	10
Large water tank, Castlehaven	139	423	13, 14
Larramore	75	320	12
Last	33	270	7
Latitude station: (*See* astronomic station.)			
Law	112	364	12
Lawn	142	430	13
Lawrence	241	------	------
Lawyer	69	309	11
Layor	152	450	13
Layton	157	461	14
Lazaretto 2	239	------	------
Lazaretto, 1842	239	------	------
Lazaretto, 1915	88	335	8
Lazaretto furnace cupola	239	------	------
Lazaretto iron foundry cupola	239	------	------
Lazaretto Lighthouse	97	------	8
Le Seur	114	372	12
Lead	143	431	13
Leadenhall	95	344	8
Leading	241	------	------
Leading 2 (U. S. E.)	90	338	8, 10
Leading Point rear Lighthouse; Brewerton Channel	103	------	------
Leading Point tree	240	------	------
Leary	69	311	11
Leaven	112	366	12
Lecompte	139	423	14
Lee (Little Choptank River)	157	460	14
Lee (Patapsco River)	95	343	8
Lee (Potomac River)	253	------	------
Lee (Potomac River) (Va.)	193	511	20, 24
Lee (South River)	238	------	------
Leeds	119	385	13
Lee's wharf house, northeast gable	76	322	12
Legg	104	351	12
Lego Point	26	267	9
Lego Point 2	24	265	9
Legos Point	234	------	------
Leitch	132	410	15
Lend	129	402	15
Lerch's windmill	72	------	12
Lester	99	347	8
Lester 2 (U. S. E.)	92	340	8
Lewis' old factory, iron chimney	196	------	24
Life saving station:			
Beach (Md.-Va. boundary)	189	508	23
Green Run Inlet, flagstaff	189	508	22
Isle of Wight, tower	188	------	23
North Beach	187	504	22
Pope Island (Va.)	188	506	22
Light:			
Fort McHenry	97	345	8
Sandy Point	236	------	------
Thomas Point	236	------	------
Light Street, square warehouse, corner	240	------	------
Lighthouse:			
Assateague (Va.)	188	------	22
Baltimore	54	------	10
Blakistone Island	204	531	24
Bloody Point Bar	49	------	12, 13
Bodkin	49	275	10
Brewerton Channel, front	103	------	------
Brewerton Channel, rear	103	------	------
Cedar Point	120	------	15, 16
Choptank River	136	------	13
Cobb *Point* Bar	205	531	25
Cove Point	120	------	15, 16
Craighill Channel, front range	51	------	10
Craighill Channel, rear range	51	------	9, 10
Cut-off channel, front	103	------	------
Cut-off channel, rear	103	------	------
Depot, east chimney	80	------	12
Drum Point	121	------	15, 16
Fenwick Island (Del.)	185	------	23
Fishing Battery	29	------	7
Fort Carroll	96	345	8, 10
Fort Washington	226	------	27
Great Shoals	178	------	17
Greenbury Point Shoal	83	------	12
Havre de Grace	29	------	7
Hawkins Point, front	103	------	------
Holland Island Bar	164	------	18, 19
Hooper Island	165	------	16
Hooper Strait	170	------	16, 17, 18
Janes Island	173	------	19, 21
Jones Point	228	------	------
Lazaretto	97	------	8
Leading Point, rear	103	------	------
Love Point	53	------	10, 11
Lower Cedar Point	205	------	25, 26
Lower, North Point	49	275	10
Maryland Point	222	------	26
Piney Point	191	------	24
Piney Point, belfry	196	------	24
Point Lookout	165	------	18, 20, 24
Point No Point	167	------	18, 24
Pooles Island	28	------	9
Ragged Point (Va.)	193	------	24, 25
Sandy Point	47	------	10, 12
Seven-Foot Knoll	49	------	10
Sharkfin Shoal	172	------	17
Sharps Island	126	------	13, 14
Smith Point	165	------	20
Smith Point (old)	23	------	6, 20

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Lighthouse—Continued.	*Page*	*Page*	*Number*
Solomon Lump	165	------	19, 20
Somers Cove	175	485	19, 21
Thomas Point Shoal	49	------	12
Turkey Point	29	------	7
Upper Cedar Point	224	------	26
Linstid	19	259	6, 10
Linstid, flag in tree	239	------	------
Litchfield house chimney	47	------	9
Little (Bohemia River)	42	------	7
Little (Harris Creek)	140	425	13
Little (Wicomico River)	179	490	17
Little Bolton	245	------	------
Little Fall, D. C. boundary stone	229	560	28
Little Gum	67	303	11
Little Neck Point	243	------	------
Liver	110	361	12
Liverpool	251	------	------
Liverpool 2	219	554	26
Liverpool Wharf, warehouse, river gable	223	------	26
Livingstone stack	97	346	8, 10
Lloyd (Choptank River)	244	------	------
Lloyd (Wye River)	114	371	12
Lock	39	271	7
Lockerman	243	------	------
Locust (Chesapeake Bay)	53	278	10
Locust (Langford Creek)	69	309	11
Locust (Manokin River)	180	494	17, 19
Locust (Patapsco River)	241	------	------
Locust (Potomac River)	252	------	------
Locust 2	25	266	7
Locust Point	234	------	------
Locust Point, shanty, chimney	29	------	7
Log	32	269	7
Loker's house, pediment front portico	196	------	24, 25
Lomax	140	424	13
Londonderry (Pa.)	28	269	------
Lone locust (Va.)	250	------	------
Lone locust tree (Va.)	250	------	------
Lonesome Hill (Va.)	248	------	------
Lonesome house, south chimney (Va.)	249	------	------
Long (Bohemia River)	41	------	7
Long (Miles River)	117	380	13
Long (Severn River)	79	327	12
Long (Wicomico River)	178	489	17
Long 2	104	------	12
Long Bar	254	------	------
Long House	252	------	------
Long House, south chimney	249	------	------
Long Island	245	------	------
Long Island 2	167	------	17, 18, 19
Long Island chimney	169	------	17, 18, 19
Long Point (Chester River)	57	284	11, 12
Long Point (Chincoteague Bay) (Va.)	188	507	22
Long Point (Kent Island)	242	------	------
Long Point (St. Clements Bay)	253	------	------
Long Point (Severn River)	239	------	------
Long Point (Tangier Sound)	245	------	------
Long Point (Thirdhaven Creek)	243	------	------
Long Point 2	243	------	------
Long Ridge	245	------	------
Longford	237	------	------
Longwell's windmill	189	507	23
Lords Gift	237	------	------
Lords Gift 2	57	284	11, 12
Lot	158	462	14
Lothrop	206	532	25
Louise	159	463	14
Love Point (Chester River)	49	275	10, 11, 12
Love Point 2	51	276	10, 11
Love Point Lighthouse	53	------	10, 11
Love Point, Tower No. 16	54	280	10, 11, 12
Lovely	70	313	11
Lovers	217	548	25
Lovers Point	254	------	------
Low (Chester River)	64	300	11
Low (Eastern Bay)	104	------	13
Lowell	203	529	24
Lower	26	266	7
Lower Cedar	250	------	------
Lower Cedar 2	205	532	25, 26
Lower Cedar Point beacon	210	------	25, 26
Lower Cedar Point Lighthouse	205	------	25, 26
Lower chimney, house on bluff above Indian Head	228	------	27
Lower Island	235	------	------
Lower Machadoc (Va.)	249	------	------
Lower Marlboro	247	------	------
Lower Potomac (Va.)	248	------	------
Lower Spaniards Point	237	------	------
Lower Stump Point	234	------	------
Lowes Point	242	------	------
Lowndes, 1846	243	------	------
Lowndes, 1910	118	384	13
Luce	77	324	12
Lucy	67	304	11
Luna	146	438	13
Lyle's house, east chimney (Va.)	249	------	------
Lynch	237	------	------
Lynch 2 (Va.)	190	------	24
Lynch Point 3 (Va.)	191	509	24
Lynch Point, store, middle chimney (Va.)	196	------	24
Lynchs Point (Va.)	249	------	------
Lynn Oaks	253	------	------
Lyon (near D. C.)	229	559	27
Lyon (Va.)	228	559	------
Lyon (Wicomico River)	211	535	25
Lyon's barn, north cupola, ventilator	222	------	27
M			
M. Lloyd	243	------	------
M. Tower	55	------	9
McComas	100	348	8
McConnell	118	382	13
McCoy	201	524	24
McDaniel	247	------	------
McDaniel 2	247	------	------
McDonald's house, cupola	240	------	------
McHenry	88	334	8
McKay	200	521	24
McKeels Point	245	------	------
McKeil	156	------	14
McLane	235	------	------
McLean (H. B.), Zell	88	325	8
McManus	162	469	14
McMurray	94	343	8
McWilliams, James, south chimney	253	------	------
McWilliams, Thomas, north chimney	253	------	------
Mac	156	459	14
Machadoc (Va.)	250	------	------
Macho (Va.)	208	------	25, 26
Mackall	129	403	15
Macum	59	287	11, 12
Madison spire	158	463	14
Magothy	48	274	10, 12
Magothy 2	53	278	10, 12
Magruder	253	------	------
Magruders Ferry	247	------	------
Malden	117	380	13
Mais	119	387	13
Major	68	306	11
Make	61	294	11
Maldenburg	235	------	------
Mallory	96	345	8
Malone	244	------	------
Malt	34	------	7
Mansion	214	541	25
Maremscot	246	------	------
Marengo	106	353	13
Mares Neck	243	------	------
Margan	207	533	25, 26

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Margo	117	379	13
Marine	240		
Marine (H. B.)	90	337	8
Marine Hospital, flagstaff, 1866	240		
Marine Hospital, flagstaff, 1876	240		
Marion	145	436	13
Mark	241		
Marlborough (Va.)	219	553	26
Marriott	20	260	6
Marriott, astronomic latitude station, 1846	22		
Marriott, astronomic latitude station, 1849	22		
Mars	145	435	13
Marsh (Chester River)	63	298	11
Marsh (Broad Creek)	146	438	13
Marsh (Manokin River)	180	493	17, 19
Marshall	146	438	13
Marshall Hall:			
Dining hall, elevator finial	227		27
Dining pavilion, flagstaff	225		27
Engine house, flagpole	227		27
Flagpole below	227		27
Tower, flagpole	227		27
Wharf, lower corner	225		27
Marshal Point, 1862	252		
Marshall Point, 1902	221	558	27
Marshy	111	363	12
Martin (Potomac River)	207	533	25
Martin (St. Marys River)	200	523	24
Martin (Tred Avon River)	150	446	13
Martins High Bank	235		
Martin's planing mill	100	348	8
Mary	160	466	14
Maryland (Potomac River)	250		
Maryland (Slaughter Creek)	164	470	14
Maryland 2	219	553	26
Maryland Agricultural College	252		
Maryland Agricultural College, tank	232		28
Maryland Casualty tower	97	346	8
Maryland Heights	20	261	6, 28
Maryland Heights, astronomic latitude station	22		
Maryland Point Lighthouse	222		26
Maslin	153	453	13
Mast of old boat	251		
Mathias 2 (Va.)	218	551	26
Mathias Point (Va.)	250		
Mathias Point beacon (Va.)	224		26
Mathias Point chimney (Va.)	250		
Mathias Point, shoal beacon (Va.)	224		26
Mathias poplar (Va.)	250		
Matt (Mattawoman Creek)	219	555	26, 27
Matt (near Blakistone Island)	207	533	25
Matta	108	357	12
Matter	115	375	12
Mattingly	253		
Mattingly house, chimney	253		
Mattox Creek house, southeast chimney (Va.)	250		
Mauds Hill, 1846	247		
Mauds Hill, 1857	247		
Mauldens Mountain	234		
Mauldin	192	510	24
Max	149		13
Maxcy	238		
Maxcy 2	47		12
Maxwell barn, cupola	46		9
Maxwell house, chimney	46		9
Maxwells Point	236		
Maxwell Point 2	45	273	9
May	151	447	13
Mayo	74		12
Mayo, 1906	75	321	12
Mayos Point (Deep Point)	238		
Mean	153	453	13
Med	64	300	11
Meekins Neck	23	264	6, 16
Meekins Neck 2	120	388	16
Meeks Point, tower No. 6	27	267	9
Meetinghouse Hill (Del.)	19	258	6
Melfield	71	314	11
Melon	151	449	13
Melton	61	292	11
Merchants (U. S. E.)	93		8
Merrit windmill	238		
Messongo (Va.)	246		
Meteorological pole, Annapolis	81		12
Methodist Episcopal Church:			
Bozman, spire	143	431	13
Chestertown, spire	66		11
Elkton, spire	37		7
Grace (Va.)	189	509	22
Hoopersville	170	480	16
Mt. Zion, spire	171	479	16
Solomons	133	412	15
Still Pond, spire	28		9
Tilghman	143	431	13
Toddville, spire	176	487	16, 17
Methodist Protestant Church, Centerville, spire	66		11
Methodist Protestant Church, Chestertown, spire	66		11
Metomkin (Va.)	250		
Metomkin 2 (Va.)	218	552	26
Metomkin Point beacon (Va.)	224		26
Meuse (Va.)	206		25
Mezick	236		
Mia	41	271	7
Mid	44	273	9
Mid, channel stake	198		24
Middle tree, small clump	211		25
Midshipmen's quarters, Annapolis, north cupola	81		
Midshipmen's quarters, Annapolis, south cupola	81		
Miles	174	483	19
Miles River	106	353	13
Mileys	214	542	25
Mill (Chester River)	65	302	11
Mill (Chincoteague River)	188	506	22
Mill (Langford Creek)	69	308	11
Mill (near D. C.)	232		28
Mill (Patuxent River)	129	400	15
Mill (Tripps Bay)	125	393	14
Mill cupola, Chipman's chair factory	100	348	8
Mill Hill	248		
Mill House, west chimney	254		
Miller (Harris Creek)	142	430	13
Miller (Patapsco River)	87	333	10
Miller (Va.)	195	515	20
Millers Hill	239		
Millers Island	236		
Millers Island 2	51	276	9
Millers Island 1918	53	279	9
Mills Point	255		
Millwind	117	379	13
Miners (U. S. E.)	102	350	8
Mink	142	429	13
Mint	123	391	16
Mistle	152	450	13
Mitchell (Hudson Creek)	159	464	14
Mitchell (Patapsco River)	94	342	8
Mitchell Bluff	55		10
Mitchells Bluff 2	51	276	9, 10
Mitchells Bluff, tower No. 11	53	279	9, 10
Mitchell's windmill	36		7
Moale	241		
Moccasin	86	332	10
Mockley Point	252		
Mockley Point, old house, chimney	226		27
Moke	154	454	13
Monastery, finial on dome	232		
Money (Va.)	189	508	22

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Monie	178	489	17
Monie Bethel Chapel, spire	181	494	17
Monkey	182	------	19, 21
Montgomery	241	------	------
Moon	181	495	19
Moore	164	470	14
Morling	243	------	------
Morn	116	376	12
Morris	63	299	11
Morsel	131	407	15
Mos (Va.)	182	496	21
Mouldy	217	549	25
Mount Alto	240	------	------
Mount Hope, cupola	97	346	------
Mount Marshall (Va.)	20	262	6
Mount Pleasant	239	------	------
Mount Pleasant Church, Crisfield, spire	183	498	19, 21
Mount Vernon (Va.)	221	558	27
Mount Vernon 2 (Va.)	221	558	27
Mount Vernon, church	179	491	17
Mount Vernon (Va.):			
Flagstaff	227	------	27
Wharf, cupola	227	------	27
Wharf, signboard	252	------	------
Mount Zion	234	------	------
Mount Zion M. E. Church, spire	171	479	16
Mouth	107	356	12
Mouth of Wye River	243	------	------
Muck	167	472	17, 18, 19
Mud (Back Creek)	38	270	7
Mud (Sinepuxent Bay)	187	504	23
Mud, 1900 (Tred Avon River)	148	------	13
Mud, 1910 (Tred Avon River)	149	444	13
Muddy	59	287	11, 12
Muddy Marsh	237	------	------
Muddy Marsh (Mud) (Va.)	246	------	------
Mulberry (Broad Creek)	143	431	13
Mulberry (Tangier Sound)	177	487	17
Mulberry 2	30	------	7
Mulberry Island	246	------	------
Mulberry Point (Bretons Bay)	254	------	------
Mulberry Point (Chesapeake Bay)	234	------	------
Mummey	237	------	------
Mummy Point 2	58	286	11
Mundys Point poplar (Va.)	249	------	------
Murray (Va.)	205	532	25
Mutton	149	442	13
Myrtle (Broad Creek)	144	432	13
Myrtle (Choptank River)	139	423	14
N			
N Tower	55	280	10
Nail	241	------	------
Nanjemoy poplar	250	------	------
Nanti	177	488	17
Nanticoke Church	177	489	17
Nanticoke Manor	246	------	------
Narrows	141	425	13
Narrows Point	57	283	11, 12
Nat (Langford Creek)	69	309	11
Nat (Patuxent River)	129	401	15
Naval Academy, boathouse, flagstaff	80	329	12
Naval Academy, chapel dome	82	------	12
Naval Hospital, cupola	81	------	12
Naval Observatory signal (D. C.)	252	------	------
Naval signal	81	------	12
Navy east (Va.)	195	516	20
Navy west (Va.)	195	515	20
Navy Yard, east wireless tower	232	------	------
Neck (Chesapeake Bay)	169	476	17, 18
Neck (Chincoteague Bay)	187	505	22, 23
Neck (Langford Creek)	68	307	11
Neck (Smith Island)	246	------	------
Neck (Tred Avon River)	151	448	13
Neck Point	243	------	------
Ned	146	438	13
Needle	106	353	12
Neil	160	466	14
Nellys	187	503	23
Nelson 2	243	------	------
Nelson 3	133	412	13
Nelsons Point	244	------	------
Neptune	145	436	13
Nest	70	311	11
Nest (eagle's)	181	494	19
Neva	150	446	13
New	129	400	15
New barn, cupola	108	388	12
New Coles (Va.)	249	------	------
New shed, west end	239	------	------
Newport	187	505	22
Newtown, 1876	253	------	------
Newtown, 1908	216	545	25
Newtown Neck Catholic Church	215	545	25
Next	24	265	9
Next house, near Pamunkey, front gable	225	------	27
Next, house near, south gable	31	------	9
Nichols	237	------	------
Nichols house, southeast chimney	66	------	11
Nichols Point	57	285	11
Nicholson	94	342	8
Nicholson's	238	------	------
Nils	61	294	11
Ninth Avenue stone	94	342	8
No (Back Creek)	38	271	7
No (Wye River)	113	370	12
No Road	67	305	11
Noah	157	462	14
Noblee	164	470	14
Nodim	115	373	12
Nomini 2 (Va.)	205	531	25
Nomini Bay, first white beacon (Va.)	208	------	25
Nomini Hill (Va.)	250	------	------
Noname	217	549	25
Norman (Eastern Bay)	110	361	12
Norman (Honga River)	170	477	16, 17
Norman (Hooper Strait)	171	------	16, 17, 18
North	123	392	16
North base, Kent Island trial course	55	------	12
North Beach, L. S. S.	187	504	22
North Birch	248	------	------
North corner stone, D. C.	229	560	28
North front range, Kent Island trial course	55	------	12
North gable, long shed near Pamunkey	225	------	27
North Indian Head	251	------	------
North Point	239	------	------
North Point Lower Lighthouse	49	275	10
North Point Upper Lighthouse (Cut-off Channel Front Lighthouse)	103	------	------
North rear range, Kent Island trial course	55	------	12
North secondary	123	392	16
North white barn, cupola	30	------	7
Northern Central elevator No. 3, Canton, tank	103	------	------
Nose	112	365	12
Noth	69	310	11
Notley Hall	221	558	27
Notley Hall, pole on house	228	------	27
Notre Dame, tower, cross	88	334	8
Nub	116	377	12
No. 1	241	------	------
No. 2	248	------	------
Number 1 east	163	------	14
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Number 2 west	163	------	14

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Number 3 west	163	469	14
Numsen	241		
Numsen's wharf	241		
Nuns Oak	249		
Nut, 1898	125		13
Nut, 1906	126	396	13
O			
Oak (Baltimore)	87	334	
Oak (Miles River)	106	353	13
Oak (Smith Creek)	197	517	24
Oak Hummock	246		
Ober & Sons' guano factory cupola	101	349	8
Occoquan (Va.)	251		
Ocean	186	501	23
Ocean City water tower	189	507	23
Office hub (Va.)	208		25
Offut's house, stone	252		
Oil (Baltimore)	241		
Oil (Pocomoke Sound) (Va.)	182	497	21
Okahanikan	170	477	17, 18
Okay	177	488	17
Olaff	44	272	9
Old (Bohemia River)	41		7
Old (Pocomoke Sound)	182	496	21
Old barn, northeast gable	36		7
Old barn, northwest gable	35		7
Old Canton house, south chimney	240		
Old chimney	36		7
Old chimney at Rosier (Va.)	250		
Old Coles (Va.)	249		
Old field tree	235		
Old house chimney (Va.)	252		
Old Mansion (Va.)	250		
Old Orchard Point	235		
Old Town Point	245		
Old windmill (Lower Potomac River) (Va.)	249		
Old windmill (Potomac River) (Va.)	250		
Old Windmill Point	254		
Old Womans Point	238		
Oliver (Gunpowder River)	45	273	9
Oliver (Miles River)	105	352	13
Ollie	116	378	13
Open pier, Western Maryland	91	338	8
Opossum Point	237		
Oppkitt	130	406	15
Orb	112	366	12
Orchard (Fishing Creek)	161	467	14
Orchard (Swan Creek)	56	281	10, 11
Ordinary	43	272	9
Osbornes Ruin	19	259	6, 7
Otto	142	430	13
Our Lady of Conception Church	98		8
Out	197	517	24
Over	111	362	12
Over (U. S. E.)	89	335	8
Overton	59	288	11
Owe	113	368	12
Owen, 1845	237		
Owen, 1910	65	302	11
Owen's windmill	242		
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Oxford, 1900	148	442	13
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Oysters	114	370	12
Oystershell Point	244		
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Paca	243		
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Pamunkey, near, long shed, north gable	225		27
Pan	62	296	11
Par	41		7
Paradise	234		
Park (Chesapeake Bay)	166		16
Park (vicinity D. C.)	230	562	28
Parker (Chesapeake Bay)	121	389	14
Parker (Herring Bay)	127	397	13
Parker (Patuxent River)	247		
Parran (S. Y. Dorsey)	242		
Parsons (Eastern Bay)	105	351	12
Parsons (Slaughter Creek)	162	469	14
Parsons Island	243		
Parsons Island, water tank	108	388	12
Parsons Point	243		
Pas	148		13
Pat (Little Choptank River)	155	457	14
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Patterson (Baltimore)	241		
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Pattison	163		14
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Pavilion, Colton's	209		25
Paw (Bretons Bay)	216	547	25
Paw (Tilghman Island)	125	393	13
Pawpaw	254		
Pea Hill	242		
Peach (Chester River)	63	298	11
Peach (Choptank River)	135	416	14
Peach (Fishing Creek)	161	468	14
Peach (Langford Creek)	68	306	11
Peach Grove (Va.)	20	261	6, 28
Peach Hill	48	274	10
Peak	132	412	15
Peake	39		7
Pear	63	297	11
Pearce	235		
Pearce 2	31	269	7
Pearl	175	485	17
Pearson	107	355	12
Peary	144	431	13
Peck	149	444	13
Peebee	151	447	13
Pen	125	394	14
Pen, Pendleton's house chimney	181	494	17, 19
Pencil's windmill	40		7
Pennington	235		
Pennsy 6 (U. S. E.)	92		8
Pennsy Con (U. S. E.)	101	349	8
Peoples Chapel, Tilghman	143	431	13
Perry (Patuxent River)	247		
Perry (Wicomico River)	213	538	25
Perry Hall	243		
Persimmon (Chesapeake Bay)	239		
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Persimmon 2 (Chesapeake Bay)	51	276	10
Persimmon 2 (Potomac River) (Va.)	218	551	26
Persimmon Point Shoal beacon (Va.)	210		25, 26
Pete	40	271	7
Petersen	247		
Petersen 2	247		
Petry's house, west chimney	46		9
Pettibone	239		
Phil (Little Choptank River)	157	461	14
Phil (Magothy River)	85	331	10
Philip (Langford Creek)	70	312	11

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Philip (Wye River)	115	375	12
Phillips	156	458	14
Philpot	96	345	8
Phoenix	94	342	8
Photo	130	405	15
Piazza House	253		
Pick	116	377	12
Pier (Chesapeake Bay)	126	396	14
Pier (Smith Creek)	197	517	24
Pier 3 (U. S. E.)	93	341	8
Pier 6 (U. S. E.)	93	341	8
Pierce's (Elk River)	235		
Pigeon	178	489	17
Pile	37		7
Pile, old wharf, Deep Point, lower corner	226		27
Pillar	100	348	8
Pimlico flagstaff	97	346	8
Pine (Bretons Bay)	217	550	25
Pine (Broad Creek)	146	437	13
Pine (Chester River)	64	300	11
Pine (Choptank River)	135	414	14
Pine (South River)	76	322	12
Pine tree, Kitts Point	198		24
Piney (Elk River)	32	269	7
Piney (Tangier Sound)	173	481	19
Piney (Wye River)	113	367	12
Piney Hummock	245		
Piney Island	245		
Piney Point (Chester River)	237		
Piney Point (Gunpowder River)	236		
Piney Point (Middle River)	236		
Piney Point 2 (Chester River)	57	284	11
Piney Point 2 (Gunpowder River)	45	273	9
Piney Point front range	193	512	24
Piney Point front range, trial	193	512	24
Piney Point Lighthouse	191		24
Piney Point Lighthouse, belfry finial	196		24
Piney Point Lighthouse signal	249		
Pink	142	429	13
Pioneer Mills, chimney	252		
Pious Hill	240		
Pipe, factory stack	197		24
Pisgah	231	562	28
Place	215	543	25
Plain	150	445	13
Plow	152	451	13
Plowden's house, southwest chimney	254		
Plowden's store, flagstaff	254		
Plum (Chester River)	65	302	11
Plum (Elk River)	33		7
Plum (Patapsco River)	95	344	8
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Poco	153	454	13
Point (Patapsco River)	96	345	8
Point (Patuxent River)	132	411	15
Point (Sassafras River)	44	272	9
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Point Agin	167	474	18, 24
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Point Sheridan, derrick on wharf (Va.)	228		27
Point Sheridan, lower derrick (Va.)	227		27
Point Sheridan, stack (Va.)	227		27
Pole	177	488	17
Pole, back on Greenbury Point	82		12
Pole in pines	181	494	19
Pole, River View chute	226		27
Pole, shears, Chesapeake Marine Ry. wharf	240		
Pomona	61	293	11
Pond (Fishing Creek)	159		14
Pond (St. Marys River)	199	519	24
Pond Point	254		
Ponds	242		
Pone	165	472	17, 18
Pons	166		16
Pont	147	441	13
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Pooles Island, flagstaff	236		
Pooles Island front range light	28		9
Pooles Island Lighthouse	28		9
Pooles Island rear range light	28		9
Pooles Island signal	236		
Pope Island (Md.-Va. boundary)	189	508	22
Pope Island L. S. S. (Va.)	188	506	22
Popes Bay (Va.)	248		
Popes Creek (Va.)	250		
Popes Creek 2 (Va.)	205		25
Popes Creek house, south apex	250		
Popes Island Beach (Va.)	248		
Poplar	127	398	14, 15
Poplar 2	122	391	13
Poplar flag	240		
Poplar, Fox Island (Va.)	175	485	21
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Poplar South	127	397	13
Poplar, Swan Point	250		
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Port Tobacco base, east end	255		
Port Tobacco base, west end	255		
Port Tobacco courthouse cupola	255		
Porter	237		
Portico house, south chimney	250		
Porto Bello, water tower	201	525	24
Posey's house, south chimney	251		
Possum	63	299	11
Post light, Randall's wharf	39		7
Post light, Town Point wharf	35		7
Potato	153	454	13
Potomac (north of D. C.)	232		
Potomac (Point Lookout)	167	474	18, 20, 24
Potomac (Potomac River), (Va.)	249		
Potomac Electric Power Co. stack	232		
Potomac View	207	533	25
Pov	163	469	14
Pov, house northeast of, north chimney	158		14
Poverty	162	469	14
Powell	248		
Powerhouse, Annapolis, northwest corner	82		12
Powerhouse, Annapolis, stack	81		12
Pratt	95	343	8
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Price, (St. George River)	201	525	24
Price (Sassafras River)	43	271	9
Price 2	47	274	12
Price's Mill	242		
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Prickley Point	245		
Prickly	173	482	19
Priest's house, south chimney	254		
Priest's house, St. Inigoes, east chimney	208		25
Priest's house, southwest chimney	254		
Primrose 1	237		
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Prince	132	410	15
Princess	115	375	12
Principio	19	258	6
Principio, astronomic latitude station	22		
Profound	214	542	25
Prospect Hill	236		
Protestant	216	547	25
Protestant Episcopal Church, Baltimore, spire	97	346	8
Protestant Episcopal Church, St. Michaels, spire	109		13
Providence	244		
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Prudential Oil Co.'s stack	98	346	8
Prussian	67	305	11
Pry	168	475	18, 19
Punch	123	391	16
Purse	85	331	10
Pyes Wharf	251		
Q			
Quaker	59	289	11
Quantico (Va.)	219	555	26
Quarantine	87	333	8, 10
Quarter	115	374	12
Queen	63	297	11
Quilling	248		
R			
Rabbit	141	428	13
Raccoon	138	422	14
Radcliffe (Chester River)	63	297	11
Radcliffe (Little Choptank River)	158	462	14
Radcliffe (Tred Avon River)	151	449	13
Radec	215	543	25
Radio, Annapolis high power:			
Tower No. 1	83		
Tower No. 2	83		
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Railroad	111	363	11, 12
Railroad (Md.-Va. boundary)	189	508	22
Railroad (Potomac River)	218	552	26
Railroad; draw, Prospect Bay	46		9
Rails	214	541	25
Railway water tank	58	286	10, 11, 12
Rain	59	287	11, 12
Raley	199	520	24
Ram	34	270	7
Ran	253		
Ran 2	198	518	24
Rand	38	270	7
Randall	93	341	8
Randall's wharf	242		
Randall's wharf, post light	39		7
Range:			
Back, Smith Island	184	498	19, 20, 21
Blizzard Island	184	499	21
Front, 4,000-yard	193	513	24
Front, 8,000-yard	194	513	24
Front, 12,000-yard	194	513	24
Front, 16,000-yard	194	515	24
Front, 20,000-yard	195	515	24
Front, Firing Point	193	512	24
Front, Piney Point	193	512	24
Front trial, 4,000-yard	193	512	24
Front trial, 8,000-yard	193	513	24
Front trial, 12,000-yard	194	513	24
Front trial, 16,000-yard	194	514	24
Front trial, 20,000-yard	195	515	24
Front trial, Firing Point	193	512	24
Front trial, Piney Point	193	512	24
North front, Kent Island trial course	55		12
North rear, Kent Island trial course	55		12
Rear, 4,000-yard	193	512	24
Rear, 8,000-yard	194	513	24
Rear, 12,000-yard	194	514	24
Rear, 16,000-yard	194	514	24
Rear, 20,000-yard	195	515	24
Rear, Firing Point, Combs	203	528	24
South front, Kent Island trial course	55		12
South rear, Kent Island trial course	55		12
Range Oak	255		
Ranstead	93	341	8
Rap	228	559	
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Ravine (Baltimore)	242		
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Rawlinsville (Pa.)	28	268	
Ray	145	434	13
Reach Hammock (Va.)	173	481	20, 21
Rear	137	420	14
Rear range:			
4,000-yard	193	512	24
8,000-yard	194	513	24
12,000-yard	194	514	24
16,000-yard	194	514	24
20,000-yard	195	515	24
Reasin	235		
Recreation (U. S. E.)	102	350	8
Red (Choptank River)	137	419	14
Red (D. C.)	228	559	
Red (Eastern Bay)	105	352	12
Red and white flag in tree	42		7
Red Bank	234		
Red Bank 2	25	266	7
Red barn, south gable	240		
Red beacon	198		24
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Red chimney, old cabin, Pamunkey Creek	226		27
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Reeds	71	315	11
Reeds Point	254		
Reedy	185	500	23
Reference Station, St. Margaret 2	205	532	
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Reinle Salmon Co., tank	97	345	8
Rembolt's house, east chimney	46		9
Rembolt's house, west chimney	46		9
Reno	231	562	
Revell	84		10
Revell 2	85	331	10
Rhode	73	318	12
Rhode River	238		
Rice	154	456	13, 14
Rich	169	476	16, 18
Rich Neck water tank	108	388	12
Richland	165		16
Rickett Point 2	45	273	9
Ricketts Point	236		
Ricks	187	505	22
Ridgely's steeple house	236		
Ridout	238		
Ridout 2	80		12
Rieman	119	386	13
Riggs Hill	29		7
Riggs's barn, cupola	252		
Right	116	376	12
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Ring	48	274	10, 12
Rip	165	472	16, 17, 18
Ritter	153	454	13
River Farm, barn cupola (Va.)	227		27
River Farm, house cupola (Va.)	227		27
River gable, high white barn	221		27
River gable, old barn below Gut	224		27
River gable, wharf house, Glymont	225		27
River Springs, Catholic Church	213	538	25
River View, pole on chute	226		27
Riverside Wharf, warehouse, river gable	222		27
Riverview (Patapsco River)	87	334	8
Riverview (Tred Avon River)	149	443	13
Road	41		7
Roar, 1901	246		
Roar, 1907	177	487	17
Roaring Point	246		
Roast	176	486	17
Rob	125	394	14
Roberts Point	235		
Robertson (Chester River)	61	295	11
Robertson (Sassafras River)	44	272	9
Robertson (Tred Avon River)	150	447	13
Robertson's windmill	66	302	11
Robins	156	458	14
Robin's cupola	248		
Robins Marsh	248		
Robins Point	248		
Robinson's house, chimney	239		
Robrecht	203	529	24
Rock (Elk River)	36		7
Rock (St. Inigoes Creek)	202	526	24
Rock (Upper Chesapeake Bay)	25	266	7
Rock Creek church spire	181	494	17
Rock Point	239		
Rock Point 2	239		
Rock Point 3	240		
Rock Point 4	241		
Rock Point 1906	51	276	10
Rock Point Bank	239		
Rock Point, Catholic Church	213	538	25
Rock Point, store, northeast gable	210		25
Rock Point, warehouse southwest gable	209		25
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Rockville, astronomic latitude station	230	561	28
Rockville, northwest base	252		
Rockville, southeast base	252		
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Rocky Point (St. Clement Bay)	254		
Rod (Harris Creek)	142	430	13
Rod (St. Marys River)	199	520	24
Rodgers (Del.)	248		
Rodgers 2 (Del.)	185	499	23
Rogers Creek (Va.)	194	514	24
Roland	90	337	8
Rolphs	62	296	11
Roof	214	540	25
Room	175	484	17
Rosanne	87	333	
Rose (Broad Creek)	145	434	13
Rose (Fishing Bay)	176	485	17
Roseneer	245		
Rosier (Va.)	250		
Rosier 2 (Va.)	205	532	25
Rosiers Bluff	252		
Ross (Broad Creek)	144	432	13
Ross (Choptank River)	244		
Ross (Little Choptank River)	157	460	14
Rot	38	271	7
Round (Chester River)	63	299	11
Round (Severn River)	78	327	12
Royal (Broad Creek)	145	435	13
Royal (Miles River)	106	353	13
Roys	136	416	13
Royster, F. S	87	334	8
Roystone 2	134	413	13
Roystones Point	244		
Rozier's, C., house, west gable	227		27
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Run	127	398	14
Russell	203	530	24
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Ryan's flagstaff, Town Point	35		7
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S. Merritt	237		
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Sail loft, Adams', flagstaff	100	349	8
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St. Annes Church, spire, Annapolis	83		12
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St. Catherine	213	538	25
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St. Clement	213	540	25
St. Clements	253		
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St. George 3	191		24
St. George 4	192	509	24
St. George 5	192	511	24
St. Helena (U. S. E.)	91	339	8
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St. Jerome	167	474	18, 24
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St. Mary "A"	191	509	24
St. Marys Episcopal Church cross	201	525	24
St. Michaels Catholic Church, spire	190	509	18, 24
St. Michaels Protestant Episcopal Church, spire	109		13
St. Michaels water tank	108	388	13
St. Patrick, 1867	253		
St. Patrick, 1908	213	540	25
St. Pierre, 1848	245		
St. Pierre, 1901	180	493	19
St. Thomas Church spire (Honga River)	171	480	16, 17
St. Thomas Church spire (Potomac River)	221		26
Salt (Severn River)	78	325	12
Salt (Sinepuxent Bay)	187	504	22, 23
Sam	182	495	21
Samuel (Broad Creek)	147	441	13
Samuel (Cox Creek)	110	361	12
Sand	128	399	15
Sandbar	216	546	25
Sanders Point	238		
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Sandhill	244		
Sandy (Manokin River)	180	493	17, 19
Sandy (Potomac River)	251		
Sandy 2 (Nanticoke River)	172	481	17
Sandy 2 (Potomac River)	219	555	26
Sandy Island	246		
Sandy Point (Magothy River)	236		
Sandy Point (Miles River)	243		
Sandy Point (Patuxent River)	247		
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Sandy Point (Spesutie Island)	234		
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Sandy Point 2 (Spesutie Island)	25	265	7
Sandy Point 4 (Potomac River) (Va.)	192	511	24
Sandy Point factory, north gable (Va.)	196		24
Sandy Point Light	236		
Sandy Point Lighthouse	47		10, 12
Sandy Point old wharf, outer pile	223		26
Sandy Point wharf, office building cupola (Va.)	196		24
Sanford Brooks tank	97	346	8
Sanford house, northeast chimney (Va.)	249		
Sang	115	373	12
Sankeys Island	246		
Sanpol	187	504	23
Sara	107	356	13
Saw	138	421	14
Sawmill, Dubois, brick stack	30		7
Sawmill stack	198		24
Saxis church spire (Va.)	183	497	21
Scaffold signal	37		7
School, Betterton, cupola	29		9
Schoolhouse, Elkton, flagpole	37		7
Schoolhouse, Tilghman Island, cupola	143	431	13
Schoolhouse, Winona, flagstaff	175		17, 19
Schooner wharf house, Taylorsville, north gable	76		12
Schultheis's farm, Md.-Del. boundary mark	234		
Scot	182	496	21
Search	120	388	13
Seaside	186	502	23
Seawall	101	349	8
Seawall, Annapolis, east corner	81		12
Seawall, Annapolis, south corner	81		12
Second	119	386	13
Second Point	106		13
Selby	73	319	12
Seminary	255		
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Seth (Little Choptank River)	157	462	14
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Setterly Point, 1846	247		
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Seven Foot Knoll Lighthouse	49		10
Shad	169	476	16
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Shanks Hammock (Va.)	23	264	6, 20, 21
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Shanty, flag	39		7
Sharkfin Shoal Lighthouse	172		17
Sharp (Eastern Bay)	105	352	12
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Sharp (Severn River)	78	326	12
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Sharps Island 1	244		
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Sharps Island light (old)	242		
Sharps Island Lighthouse	126		13, 14
Shaw	114	370	12
Shearers' lightning rod on east chimney	228		
Shears	241		
Shed	44	272	9
Shed, near Pamunkey, north gable	225		27
Shehan	203	530	24
Shell (Choptank River)	135	415	14
Shell (Potomac River) (Va.)	207		25, 26
Shell (West River)	72	316	12
Shell Bank (Va.)	205	532	25, 26
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Shellbank	163		14
Sheridan	131	406	15
Sheridan Point (Va.)	252		
Sheridans Point	247		
Ship	71	314	11
Ship Yard	248		
Shippen	60	291	11
Shipping	214	541	25
Shipping Point (Lower Potomac River)	253		
Shipping Point (Potomac River) (Va.)	251		
Shirley Point	247		
Shoal	135	414	14
Shop Hill	239		
Shore	186	503	23
Short	178	489	17
Show	154	455	13
Shrewsbury Hill	43	272	9
Shryock's wharf, flagstaff	241		
Sic	36		7
Sig	197	516	24
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Sillery	85		10
Sillery 2	85	332	10
Sinker	122	391	13
Skid	156	458	14
Skinner (Little Choptank River)	245		
Skinner, 1846 (Broad Creek)	244		
Skinner, 1909 (Broad Creek)	144	433	13
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Slatt	246		
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Slim	130	405	15
Smack	202	527	24
Small	244		
Small house, chimney	255		
Small white house, northeast chimney (Va.)	249		
Small white house, south chimney	250		
Small white spire	242		
Smallwood (H. B.)	90	338	10
Smith (Chester River)	237		
Smith (Harris Creek)	140	424	13
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Smith (Smith Island)	166	472	19, 20
Smith (South River)	238		
Smith (U. S. E.)	91	339	8
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Smith 2 (Potomac River)	219	554	26
Smith Creek beacon No. 2	253		
Smith Island back range	184	498	19, 20, 21
Smith Island Ewell Church spire	169	476	19, 20, 21
Smith Island north church spire	169	476	19, 20, 21
Smith Island old church spire	169	476	19, 20, 21
Smith Point Lighthouse, 1849 (Va.)	23		6, 20
Smith Point Lighthouse, 1898 (Va.)	165		20
Smiths Point	251		
Smiths wharf, chimney	100	348	8
Smoke	202	527	24
Smoke Point	245		
Smokestack, iron	35		7
Smokestack, iron, Chesapeake City	40		7
Snake (Va.)	192	510	21
Snake Island	245		
Snead (Va.)	248		
Snout	112	366	12
Snow	65	302	11
Snow Hill	239		
Snub	68	306	11
Snyder's house gable	252		
Soak	201	524	24
Society Hill	254		
Solitary tree	239		
Sollers (Patapsco River)	87	333	8, 10
Sollers (Patuxent River)	130	403	15
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Sollers Point 2	239		
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Sollin	247		
Solomon	157	461	14
Solomon Evans	245		
Solomon Lump Lighthouse	165		19, 20
Solomons Cove	245		
Solomons Methodist Episcopal Church	133	412	15
Some	108	357	12
Somers Cove Lighthouse	175	485	19, 21
Somerville	247		
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Soper	20	260	6, 28
Soper, astronomic latitude station	22		
Sothoron	131	408	15
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South (Barren Island)	123	392	16
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South base, Kent Island speed trial course	55		12
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South corner stone, D. C.	229	559	28
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South Hammock	185	499	23
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South secondary	123	392	16
South white barn, cupola	30		7
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Southern M. E. Church, Tilghman Island	143	431	13
Spaniard Point 2, upper	58	285	11
Spaniard wharf	58	285	11
Spar	116	378	13
Sparrow	87	333	10
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Spaulding's cupola	254		
Speak's, Robert, house, east chimney	250		
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Spencer (Miles River)	106	353	13
Spike	56	282	10, 11
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Spindle	138		14
Spire, Chesapeake City	40		7
Spire, East Cambridge	139	423	14
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Spit	78	326	12
Spree	117	382	13
Sprigg	237		
Spring (Grays Inn Creek)	67	303	11
Spring (Severn River)	77	324	12
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Spring Gardens	99	347	8
Spring Island	245		
Spry	64	301	11
Spry Island	26	267	9
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Stack, Bay Ridge	80	329	12
Stack, blacksmith, shipyard	37		7
Stack, Livingstone	97	346	8, 10
Stack, Point Sheridan	227		27
Stack, Prudential Oil Co.'s	98	346	8
Stack, sawmill	198		24
Staff, flagstaff, Cox's oyster-house	181	494	19
Stake, mid-channel	198		24
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Aberdeen	31		7
Cambridge	139	423	14
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Dulce, near	233		28
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Indianhead	228		27
Stanton School (near D. C.)	233		
Stanforth	247		
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Stanton School, Standpipe	233		
Stapleford	163	469	14
Star	112	366	12
Starkley	60	292	11
Start, 1910	79	328	12
Statehouse, Annapolis, dome	82		12
Steel	42		7
Steel Tower No. 13	54	279	10
Steelton east chimney	99		10
Steelton west chimney	98		10

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Stevenson, 1862	252		
Stevenson, 1902	220	557	27
Stewart (Choptank River)	244		
Stewart (Potomac River) (Va.)	250		
Sticky	148	442	13
Still Pond	21	262	6, 9
Still Pond, M. E. Church spire	28		9
Stock	129	402	15
Stoddard, 1867	255		
Stoddard, 1908	212	537	25
Stone (Elk River)	36		7
Stone (Patapsco River)	89	337	8, 10
Stones	215	545	25
Stone's, Matthew, west chimney	254		
Stony (Bohemia River)	41		7
Stony (Miles River)	117	379	13
Stony Battery	235		
Stony Point (Bohemia River)	235		
Stony Point (Magothy River)	239		
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Stony Point 2	86	332	10
Stoops Point, Tower No. 9	26	266	9
Stop	112	366	12
Store, Lynch Point, middle chimney (Va.)	196		24
Store, Rock Point, northeast gable	210		25
Straight	106	353	12
Straight Tree	239		
Straits	203	528	24
Stratton	60	290	11
Straw	153	452	13
Strawberry Plains	239		
Street	177	489	17
Stretch	150	447	13
Stuart 2	218	553	26
Stucco house, gable	240		
Stump	129	402	15
Stump 2	178	489	17
Stump Neck	251		
Stump Point (Head Chesapeake Bay)	234		
Stump Point (Tangier Sound)	245		
Stump Point 2	25		7
Stung	197	518	24
Sub north	243		
Sugar (U. S. E.)	91	339	8
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Sullivan	244		
Sum	37		7
Summer (Va.)	183	497	21
Sumner	229	559	28
Susberry	235		
Susquehanna Point	245		
Sutton, 1845	237		
Sutton, 1909	65	301	11
Sutton's, J. L., house, southeast chimney	239		
Sutton's, J. L., brick house, southeast chimney	240		
Swan (Elk River)	33		7
Swan (St. George River)	203	529	24
Swan (Severn River)	79	327	12
Swan (Upper Chesapeake Bay)	25	266	7
Swan Point (Assawoman Bay)	248		
Swan Point (Potomac River)	250		
Swan Point (first order station)	19	260	6, 10
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Swan Point 2 (Potomac River)	205	532	25
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Swan Point, Tower No. 14	54	279	10, 11
Swan's, Ben., north chimney	254		
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Sweitzer's farm, Md.-Del. boundary mark	234		
Swep	160	465	14
Swepson	71	313	11
Swing	117	378	13
Switch	74	319	12
Switchers Point	238		
Sycamore, 1862 (Va.)	251		
Sycamore, 1902 (Va.)	220	556	27
Sykes (Va.)	246		
Sykes Island (Va.)	246		
Sylvia	115	373	12
T			
Tab	197	516	24
Taft	147	439	13
Tail	85	330	10
Takoma	230	563	28
Tall	149	444	13
Tall stack, East Cambridge	139	424	14
Tallis Point	238		
Tang	118	383	13
Tangier 2 (Va.)	246		
Tangier Island church spire (Va.)	175		
Tank:			
Hyattsville	233		28
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Reinle Salmon Co	97	345	8
Sanford Brooks	97	346	8
Tanzy (Va.)	219	553	26
Tar (Chesapeake Bay)	123	391	16
Tar (Tred Avon River)	149	444	13
Target	241		
Target (U. S. E.)	91	339	8
Target (Va.)	252		
Tarkhill	203	529	24
Tarleton	242		
Tarleton 2	166	472	16, 18
Taste	61	294	11
Tates Bank	244		
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Taylors Island (Upper Chesapeake Bay)	234		
Taylors Mountain	236		
Taylorsville schooner wharf house, north gable	76		12
Taylorsville wharf house, north gable	76		12
Teague	131	409	15
Ted (Eastern Bay)	105		12
Ted (Tangier Sound)	172	481	17
Tenk	107	354	12, 13
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Thames	99	348	8
Thatch	44	272	9
Thelma	147	440	13
Then	108	358	12
Theological Seminary, 1846, Alexandria (Va.)	252		
Theological Seminary, 1862, Alexandria (Va.)	252		
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Thicket Point (Va.)	249		
Thicket Point 2 (Va.)	191		24
Thin	111	363	11, 12
Thom	219	554	26
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Thomas 2	47		12
Thomas 3	74	319	12
Thomas, 1848 (Tangier Sound)	245		
Thomas, 1901 (Tangier Sound)	173	481	19
Thomas Point	236		
Thomas Point Light	236		
Thomas Point Shoal Lighthouse	49		12
Thompson (Cox Creek)	110	360	12
Thompson (St. Marys River)	199	520	24
Thompson's, C., chimney	254		
Thompsons Hill	238		
Thompsons Marsh	237		
Thorn	60	290	11
Thornapple	159	464	14
Thoro	176	486	17
Thorofare	185	500	23
Thorsten	62	295	11
Three-chimney house, east chimney	65		11, 12
Three Pines	248		
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Tilghman 3	133	412	13
Tilghman Island 2	243		
Tilghman Island, dead tree	244		
Tilghman Island, schoolhouse cupola	143	431	13
Tilghman Island, south M. E. Church	143	431	13
Tilghman, M. E. Church	143	431	13
Tilghman, Peoples Chapel	143	431	13
Tilghmans Point	242		
Timber	109	359	12
Tizz	189	507	22
Tobacco	241		
Tobacco manufactory, Gail & Ax, vane	100	348	8
Tobacco Stick	155	457	14
Tobe	146	437	13
Tobine	115	373	12
Todd 2	133	413	13, 14
Todds Point	244		
Toddville, M. E. Church spire	176	487	16, 17
Toe	152	450	13
Tolly 2	51		12
Tolly, 1906	53	278	12
Tolson	52		12
Tom (Cox Creek)	109	358	12
Tom (Elk River)	33		7
Tom (Little Choptank River)	160	466	14
Tomakokin	215	544	25
Toms Point	23	264	6, 16
Toms Point 2	164	471	16
Ton (Elk River)	33		7
Ton (Patuxent River)	129	401	15
Toot	137	418	14
Top	109	358	12
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Tower M	55		9
Tower, Marshall Hall, flagpole	227		27
Tower, Maryland Casualty	97	346	8
Tower N	55	280	10
Tower No. 2 (B)	27	268	7
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Tower No. 5, Howell Point	27	268	9
Tower No. 6, Meeks Point	27	267	9
Tower No. 7, Plum Point	26	267	9
Tower No. 8, Worton Point	26	267	9
Tower No. 9, Stoops Point	26	266	9
Tower No. 10, Fairlee	54	279	9
Tower No. 11, Mitchells Bluff	53	279	9, 10
Tower No. 12, Gales Farm	54	279	10
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Tower No. 14, Swan Point	54	279	10, 11
Tower No. 15, Huntingfield Bank	54	280	10, 11
Tower No. 16, Love Point	54	280	10, 11, 12
Tower, east wireless, Navy Yard	232		
Tower, old, Black Point	27	268	7, 9
Tower, red, circular windows, Annapolis	83		12
Town (Little Choptank River)	157	460	14
Town (Patuxent River)	132	411	15
Town (Tred Avon River)	149	443	13
Town Point (Elk River)	235		
Town Point (Patuxent River)	247		
Town Point 2 (Elk River)	32	269	7
Town Point 2 (Patuxent River)	247		
Town Point flagstaff, Ryan's	35		7
Town Point wharf, post light	35		7
Town Point windmill	35		7
Townsend	236		
Towson	96	344	8
Training (D. C.)	230	561	
Trap	63	298	11
Trappe	136	418	13, 14
Travers	23	263	6
Travers 2	121	389	14
Travis Point, 2-story white house, southeast chimney (Va.)	196		24
Tray	67	303	11
Treasure	56	282	10, 11
Tred	149	443	13
Tree	63	299	11
Tree, Craney Island	225		27
Tree, middle of small clump	211		25
Tree, red and white flag	42		7
Trees	216	548	25
Trent	131	407	15
Trim	33		7
Trip	148		13
Trippe	152	450	13
Truemans Point	247		
Tuckers Point	238		
Tucks Hill	238		
Tug	120	388	13
Tull	111	362	12
Tunnel Island (Va.)	246		
Turf (Rhode River)	73	318	12
Turf (St. Clement Bay)	215	544	25
Turkey (Eastern Bay)	108	357	12
Turkey (Harris Creek)	140	424	13
Turkey Point (Eastern Bay)	242		

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Turkey Point 2 (Johnston's)	234		
Turkey Point Lighthouse	29		7
Turn (Elk River)	37		7
Turn (Tred Avon River)	148	442	13
Turn (Wye River)	115	374	12
Turnagain	188	506	22
Turner	43	272	9
Turner's, Duncan, house, west chimney	255		
Turtle (Va.)	251		
Turton	248		
Tuxon	109	359	12
Twin	150	445	13
Twin Hills	248		
Twist	113	368	12
Twixt	113	367	12
Two (Back Creek)	38	270	7
Two (Leeds Creek)	119	387	13
Two-story brown house, chimney	251		
Two-story house, chimney	250		
Two-story unpainted house, east chimney	240		
Two-story unpainted house, north chimney	239		
Two-story white house, east chimney	250		
Two-story white house, green blinds, chimney	239		
Two-story white house, southwest chimney	250		
Tyson	241		
Tyson 2	90	338	8
Tyson 2 (U. S. E.)	103		
Tyson high chimney	241		
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U. S. bonded warehouse, flagstaff	101	349	8
U. S. Engineers flag, near Matt	222	556	26, 27
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Unpainted house, chimney	252		
Unpainted house, south chimney	251		
Unpainted house, south chimney	251		
Up (Chesapeake Bay)	124		15, 16
Up (Choptank River)	138	423	14
Upper	212	537	25
Upper Cedar	250		
Upper Cedar 2	218	552	26
Upper Cedar Point Lighthouse	224		26
Upper Machodoc (Va.)	249		
Upper Machodoc 2 (Va.)	204		25
Upper Spaniards Point	237		
Urie	57	283	10, 11
V			
Valley	217	551	25
Valliant	107	354	13
Van	50	276	12
Van Duyne	157	462	14
Veith	156	458	14
Venture	152	450	13
Venus	145	436	13
Vickers (Chester River)	237		
Vickers (Nanticoke River)	246		
Vickers (Slaughter Creek)	163	469	14
Vienna	246		
Villa	119	385	13
Ville	109	359	12
Vine	141	427	13
Virginia (Va.)	251		
Vue	148	442	13
Vulcan	241		
W			
W. B	242		
W. Goughs	254		
Wab	180	494	17, 19
Wabash (H. B.)	89	336	8
Wade Point 2	104	351	12, 13
Wades Point	242		
Waggaman (Choptank River)	244		
Waggaman (South River)	74	320	12
Waggaman, 1906 (South River)	75	321	12
Waggaman windmill	76	322	12
Wagner	251		
Wagners church spire	96		8, 10
Wal	149		13
Walker (Chester River)	237		
Walker (Patapsco River)	99	348	8
Walker's unpainted house, northwest chimney	240		
Wall (St. George River)	203	530	24
Wall (Tred Avon River)	150	447	13
Wallace	230	561	28
Waller (Va.)	219	554	26
Wallis	237		
Walnut (Fishing Creek)	161	468	14
Walnut (Wicomico River)	179	492	17
Wann	69	310	11
Wap	127	397	13
War	135	415	14
Ware	109	358	12
Warehouse	238		
Warehouse, Riverside Wharf, river, gable	222		27
Warehouse, Rock Point, southwest gable	209		25
Warehouse, U. S. bonded, flagstaff	101	349	8
Warner	95	344	8
Warrior	141	426	13
Warwick	244		
Wash	52	277	12
Washington	247		
Washington 2	247		
Washington College, Chestertown, cupola	66		11
Washington, D. C., Capitol	230		6, 28
Washington Monument (D. C.)	230		28
Washington Monument (Baltimore)	87		8
Waste (Va.)	182	496	
Water	151	449	13
Water tank:			
Castlehaven, large	139	423	13, 14
Cherry Island	158		14
Dick's	139	424	14
Fort Howard	98	347	10
Parsons Island	108	388	12
Railway	58	286	10, 11, 12
Rich Neck	108	388	12
St. Michaels	108	388	24
Water tower:			
Convent	188	507	23
Fort Hunt (Va.)	227		27
Ocean City	189	507	23
Porto Bello	201	525	24
Waterloo	213	539	25
Watermelon Hummock	182	496	19, 21
Watermelon Point	243		
Watkins 1	238		
Watkins 2	238		
Watkins 3	238		
Watkins Point	246		
Watkins Point (Md.-Va. corner)	183	498	21
Watson's house, south chimney (Va.)	250		
Watsons Island	235		
Watson's, Mrs., house, southeast chimney	250		
Wax	37		7
Weather Bureau, Oxford, staff	151	449	13

Station	Position	Description	Sketch
	Page	*Page*	*Number*
Weave	150	445	13
Webb	20	260	6
Webb, astronomic latitude station	22		
Webster	95	344	8
Webster (U. S. E.)	102	349	8
Weedons	238		
Weeks	67	303	11
Weems	77	323	12
Weem's windmill	242		
Weir	45		9
Weiss	211	534	25
Welch	48		10
Welch 2	85	331	10
Welch's house, west chimney	86		10
Wells Hill (Severn River)	238		
Wells Hill (Susquehanna River)	235		
Welsh (Va.)	206	532	24, 25
West	69	308	11
West barn near Carpenter, cupola	30		7
West chimney	76	322	12
West end	163		14
West Fishing Creek	159	464	14
West Hollow	200	523	24
West hub (Va.)	208		25
West Pine (Va.)	249		
West St. Marys Hill	253		
Westcott's windmill	66	302	11
Western Maryland elevator pier (U. S. E.)	92	340	8
Western Maryland open pier	91	338	8
Wet (Elk River)	33		7
Wet (Hooper Island)	169	476	16
Wetherall's house, east chimney	37		7
Whale (Langford Creek)	69	309	11
Whale (Wye River)	115	375	12
Wharf (Chesapeake Beach)	125		13
Wharf (Va.)	183	498	21
Wharf:			
Blakistone Island, flagstaff	209		25
Cassidy's	43	272	9
Clifton Beach	223		26
Coltons, outer end	209		25
Corners, chimney	139		14
Dills	210		25, 26
Liverpool warehouse	223		26
Marshall Hall, lower corner	225		27
Mt. Vernon, cupola (Va.)	227		27
Point Lookout, southwest corner	195		24
Pratt and Callows	101		8
Sandy Point, cupola (Va.)	196		24
Sandy Point, old	223		26
Wharf house:			
Bogles, flag	66		11
Gable	34	270	7
Glymont, river gable	225		27
Jackson Creek, ventilator	65		11, 12
Kent Island, belfry	65		11, 12
Lee's, northeast gable	76	322	12
Taylorsville, north gable	76		12
Wharf Marsh	248		
What	216	548	25
Wheat (Choptank River)	135		14
Wheat (Patuxent River)	129	403	15
Wheat (Potomac River) (Va.)	250		
Wheat 2 (Potomac River) (Va.)	218	553	26
Wheatley	245		
Wheaton	231	563	28
Wheaton 2	232		
Wheel	116	377	12
Whit	118	382	13
White (Chesapeake Bay)	48	274	10, 12
White (Patapsco River)	87	333	10
White (Sassafras River)	43	272	9
White (Tangier Sound)	175	484	17
White barn, cupola	240		
White barn, northeast gable	36		7
White barn, west gable	35		7
White chimney, Ferry Point (Va.)	252		
White chimney, house below Gut	224		27
White chimney, house near Glymont	225		27
White derrick	241		
White flag	42		7
White flagstaff, gilt ball	76		12
White Haven church	179		17
White house 1	243		
White house 2	243		
White house 3	243		
White house, center	239		
White house, largest chimney	239		
White house, near Aquia Creek, north chimney (Va.)	251		
White house, near Cleopatra, north chimney (Va.)	251		
White house, northeast chimney	128	399	16
White house on point, chimney	255		
White house, pavilion (Va.)	252		
White house, south gable	82		12
White house, southeast chimney	209		25
White house, west chimney	252		
White house, white chimney	251		
White Oak	46		9
White Pine Island	254		
White Point (Va.)	250		
White Point 2 (Va.)	205		25
White range mark	239		
White Stone Point (Va.)	252		
White two-story house, east chimney (Va.)	249		
White windmill (Va.)	249		
Whitehall	137	420	14
Whitestone Point (Va.)	220	557	27
Whitewash	164	470	14
Wick	135	415	14
Wicker	235		
Wickes	237		
Wickes Beach	58	286	10, 11, 12
Wicomico	254		
Wicomico Farm	255		
Wide	113	368	12
Wight (Isle of Wight)	248		
Wight 2	185	500	23
Wildcat (Va.)	188	506	22
Wileys Point	237		
Will	182	497	21
Willey	144	433	13
William	95	343	8
Williams	246		
Williams windmill	65		11, 12
Willis (Broad Creek)	145	436	13
Willis (Choptank River)	244		
Willow	242		
Will's, E. A., southwest chimney	254		
Wilmer	237		
Wilmers	61	295	11
Wilson (Bush River)	236		
Wilson (Chesapeake Bay First Order Triangulation)	23	263	6, 14
Wilson (Chester River)	237		
Wilson (Elk River)	32	269	7
Wilson 2	123	392	14, 15
Wilson 2 (Johnstone's)	242		
Wilson 3	123	393	14, 15
Wilson, north chimney	128		14
Wilsons Island	245		
Winans	241		
Wind	178	490	17
Windmill (Bretons Bay)	254		
Windmill (Honga River)	245		
Windmill (Severn River)	81		12

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Windmill 2 (Honga River)	170	476	16, 17
Windmill 2 (Potomac River)	218	551	26
Windmill:			
Belview Hotel, Chapel Point	222		26
Buffington	189	507	23
Center	248		
Chesapeake City, near	40		7
Cooks Point	128	399	14
Diston's	31		7
Futy's	35		7
Georges Point	42		7
Holland, below	242		
Lerch	72		12
Longwell's	189	507	23
Mitchell's	36		7
Pencil's	40		7
Red and white bands	31		7
Red, Chesapeake City	40		7
Robertson's	66	302	11
Town Point	35		7
Waggaman	76	322	12
Westcott's	66	302	11
Williams	65		11, 12
Windmill Hill (Nanticoke River)	246		
Windmill Hill (South River)	238		
Windmill Point (Fishing Creek)	161	467	14
Windmill Point (Miles River)	106	353	13
Windmill Point (Potomac River) (Va.)	249		
Windmill Point (St. Marys River)	253		
Windmill Point(Swan Creek)	56	280	10, 11
Wingate	178	489	17
Wing's Landing	244		
Winona Schoolhouse flagstaff	175		17, 19
Wire	146	437	13
Wireless pole, Annapolis	83		12
Wise's white chimney	128		16
Witters Point	44	272	9
Wolf	96	344	8
Woll	70	311	11
Woman	24	265	9
Won	112	365	12
Wood (Eastern Bay)	107	356	12, 13
Wood (vicinity D. C.)	229	560	28
Woodall	240		
Woodall (U. S. E.)	102	350	8
Woodill	145	436	13
Woodland	105	352	12, 13
Woodlanding	238		
Woodlawn House, apex of roof	240		
Woods	214	540	25
Woods, Mrs., house, chimney	240		
Woodyard (Patuxent River)	247		
Woodyard (Back River)	237		
Wool	156	459	14
Woolford	155		14
Worthington	239		
Worton Point	234		
Worton Point 2	24	264	9
Worton Point, Tower No. 8	26	267	9
Wreck	64	300	11
Wright	229	561	28
Wright's house, west chimney	65		11, 12
Wright's mill	237		
Wroten	171	478	16
Wroths Point	235		
Wroths Point 2	25	265	7, 9
Wye Landing	243		
X			
Ximo	75	322	12
Y			
Yacht Club, (H. B.)	90		8, 10
Yacht Club Baltimore, flagstaff	98	346	8
Yazoo	75	322	12
Yellow	158	462	14
Yellow house (red roof), chimney	227		27
Yellow house, south chimney	80		12
Yellow house, west chimney	35		7
Yellow mill, south apex	252		
Yellow roof, white cupola	252		
Yeocomico (Va.)	249		
Yeocomico 2 (Va.)	190		24
Yeocomico 3 (Va.)	190		24
Yoe's, Wm., northwest chimney	233		28
Yokels Park, flagstaff	98	346	8
York	241		
York (U. S. E.)	93	341	8
Young (U. S. E.)	92	340	8
Z			
Zell	241		
Zell, McLean: (H. B.)	88	335	8

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