

1899 to 1927

Aug 1894⁵ yrs.

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1899 to 1927

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1899*
 Date, *Sept 1st 1894*
 Time of day, *12 40 PM*, of tide, *Ebb*
 Locality, *Prinyard Sound*
 Exact position, *Deep Cr. to Cuthy, N. 88° 55'*
Cuthy, N. 93° 11'
 Depth, *10 fathoms*
 Nature of bottom, *sandy with blk specks*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, _____ ; distance, _____
 Temperature of air, *70* therm. No., _____
 " of surface water, *67* " _____
 " at depth of _____ fathoms, " _____
 " at bottom, *63 73* " _____
 Density at surface, *1023.6* temp., *67*
 " at depth of _____ fathoms, " _____
 " at bottom, " _____
 Number of salinometer, *7052*
 Barometer reading, *30.09*
 State of sky, *Clear*
 Direction of wind, *W S W* ; force, *1*
 Rain, _____
 Direction of surface current, _____ ; force, _____
 " of bottom " " ; force, _____
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U S F Commission*
 Name and rank of commanding officer, *Robt Platt*
Lieut USN
 Name and position of observer, *Ch Cleveland*
Matr USN

NOTES RELATING TO STATION NO. 1899

obtained about 1/2 bushel of
material consisting of Skate
Houman Starfish - Crabs
Sand dollars - Hermit crabs
Keep & sea urchins

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1900
 Date, Sept 1st 1894
 Time of day, 1:10 PM; of tide, Ebb
 Locality, Vineyard Sound
 Exact position, Nobles Lgh to Cuttyhunk
Lgh 114.26' Cuttyhunk to Gay Head
 Depth, 16 fathoms 119° 10'
 Nature of bottom, Sand & shells
 Dredging instrument used, 7 ft Beam Trawl
 Direction of drift, _____; distance, _____
 Temperature of air, 73 therm. No., _____
 " of surface water, 66 "
 " at depth of _____ fathoms, "
 " at bottom, 66 7/8 "
 Density at surface, 1.0246 temp., 66
 " at depth of _____ fathoms, "
 " at bottom, _____ "
 Number of salinometer, 7052
 Barometer reading, 30.09
 State of sky, Clear
 Direction of wind, W SW; force, 1
 Rain, _____
 Direction of surface current, _____; force, _____
 " of bottom " _____; force, _____
 Name of vessel, Fish Hawk
 Service to which attached, U.S. Com.
 Name and rank of commanding officer, Ph't Platt
Lieut U.S.N.
 Name and position of observer, A. H. Cleveland
Master

NOTES RELATING TO STATION NO. 1890

Obtained, Sea Urchins 1. Star Fish
Rock Crabs, Hermit Crabs Seal
Shells, a few Skates & Flounders
A number of Peckers,

S 4 1/2 N, 1/2 W,
S E 1/4 E,

643

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1901.*
 Date, *Sept 6th 1894*
 Time of day, *10.15 am*; of tide, *Flood*
 Locality, *Burwards Bay Mass.*
 Exact position, *Mund of Long neck, S by N 1/4 N,
North end Hog Island Pt S. E. by E 1/4 E,*
 Depth, *5. ft 2 ft*
 Nature of bottom, *Coarse Sand*
 Dredging instrument used, *7 ft Beam Trawl,*
 Direction of drift, ; distance,
 Temperature of air, *71* therm. No.,
 " of surface water, *69* "
 " at depth of fathoms, "
 " at bottom, *69* "
 Density at surface, *1023.0* temp., *69*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7052*
 Barometer reading, *3004*
 State of sky, *Hazy*
 Direction of wind, *N. N. E.*; force, *4*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U. S. F. C.*
 Name and rank of commanding officer, *R Platt*
Lieut U. S. N
 Name and position of observer,
James W. Smith
Mate U. S. N

NOTES RELATING TO STATION NO. 1901

Starfishes Several Sponges, and
Sea weeds, Brans, & Scallops

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1902*
 Date, *Sept 6th 1894*
 Time of day, *10.35 am*; of tide, *Flood*
 Locality, *Barnardo Bay Mass.*
 Exact position, *Tangent N. E. Hog Island 77° 05'*
to King Duck Lgh, King Duck to Bird Is Lgh 36.17
 Depth, *5 fms*
 Nature of bottom, *fm bk S. bk sh. B. mud*
 Dredging instrument used, *7ft Beam Trawl*
 Direction of drift, _____; distance, _____
 Temperature of air, *69.5* therm. No., _____
 " of surface water, _____
 " at depth of _____ fathoms, _____
 " at bottom, *68* _____
 Density at surface, *1023.0* temp., *69*
 " at depth of _____ fathoms, _____
 " at bottom, _____
 Number of salinometer, *7052*
 Barometer reading, *3004*
 State of sky, *Hazy*
 Direction of wind, *ENE*; force, *2*
 Rain, _____
 Direction of surface current, _____; force, _____
 " of bottom " _____; force, _____
 Name of vessel, *Fish Hawk*
 Service to which attached, *U.S. F C*
 Name and rank of commanding officer, *Robert Platt*
Lieut U.S. N.
 Name and position of observer, _____

Jas A. Smith
Matr USN

NOTES RELATING TO STATION NO. 1902

A small quantity of Finger Sponge
Brass live coral, and Sea weeds.

48.00

643

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1903,*
 Date, *Sept 6.*
 Time of day, *11.00. a.m.*; of tide, *Flood.*
 Locality, *Burrards Bay Mass.*
 Exact position, *W. end Hog Is to King wh. Lgh 48.00' L*
North end of Long Reach to Hog Is 118.33. R.
 Depth, *77th 3 ft*
 Nature of bottom, *Buff mud Bet Shells.*
 Dredging instrument used, *7 ft Beam Trawl.*
 Direction of drift, ; distance,
 Temperature of air, *70* therm. No.,
 " of surface water, "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1023* temp., *68*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7052*
 Barometer reading, *3004*
 State of sky, *Hazy*
 Direction of wind, *E. N. E.*, ; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *U. S. F. C.*
 Name and rank of commanding officer, *R. Platt*
Lieut U. S. N
 Name and position of observer,
Jas A. Smith
Master U. S. N.

NOTES RELATING TO STATION NO. 1903

3 Spider Crabs 1 *Squilla*, small shells
Broken shells and sea weed,

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1904*
 Date, *Sept 7 1894*
 Time of day, *9.40 am*; of tide, *1/4 Flood Tide*
 Locality, *Barnards Bay, Mass*
 Exact position, *Nads Pt Lgt to Comorant R. Spindle 39.37*
Comorant Rk Spindle to Caul Bay #9. 98.30
 Depth, *4 1/2 Fms*
 Nature of bottom, *Fne Sand*
 Dredging instrument used, *7ft Beam Trawl*
 Direction of drift, ; distance,
 Temperature of air, *68* therm. No.,
 " of surface water, "
 " at depth of fathoms, "
 " at bottom, *69* *N. & G. 50303.*
 Density at surface, *102400* temp., *69*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7205*
 Barometer reading, *3004*
 State of sky, *Hazy*
 Direction of wind, *S. W.* ; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U. S. F. C.*
 Name and rank of commanding officer, *R. Platt*
Lieutenant, U. S. N.
 Name and position of observer,
James A. Smith
Master, U. S. N.

NOTES RELATING TO STATION NO. 1904

Yellow Sponges, Brown Sponges,
1 *Flammula*, several Small Sea Hares.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1905*
 Date, *Sep 7th 1894*
 Time of day, *10. am*; of tide, *1/4 Flood Tide*
 Locality, *Barnards Bay Mass.*
 Exact position, *Bird Is. Lgh to Sampling Lgh. 46.22*
Neds Pt Lgh to Sampling Lgh. 102.32
 Depth, *6 1/2 fms*
 Nature of bottom, *Mud & Sand*
 Dredging instrument used, *7ft Beam Trawl*
 Direction of drift, _____; distance, _____
 Temperature of air, *68*, therm. No., _____
 " of surface water, _____
 " at depth of _____ fathoms, _____
 " at bottom, *68*, " *50303*
 Density at surface, *102395* temp., *68.5*
 " at depth of _____ fathoms, _____
 " at bottom, _____
 Number of salinometer, *7205*
 Barometer reading, *3004*
 State of sky, *Heavy*
 Direction of wind, *S.W*; force, *2*
 Rain, ~~*etc*~~
 Direction of surface current, _____; force, _____
 " of bottom " _____; force, _____
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U.S. F.C.*
 Name and rank of commanding officer, *R. Platt*
Lieutenant U.S.N.
 Name and position of observer, *James A. Smith*
Master U.S.N.

NOTES RELATING TO STATION NO. 1905

Spider Crabs, Sponge, Broken Shells
1 pipe fish,

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1906.*
 Date, *Sept 7th 1894*
 Time of day, *10.40. a.m.*; of tide, *1/2 Flood Tide*
 Locality, *Burrards Bay Mass.*
 Exact position, *Bird Is Lgh to Mads Pt Lgh 50 15'*
Neds Pt Lgh to Commerce R. Spindle 121.17'
 Depth, *4 1/2 Fms*
 Nature of bottom, *Fine Red Sand*
 Dredging instrument used, *7ft Beam Trawl*
 Direction of drift, _____; distance, _____
 Temperature of air, *75* therm. No., _____
 " of surface water, _____
 " at depth of _____ fathoms, _____
 " at bottom, *68 - 7279* " *50303*
 Density at surface, *102360* temp., *68.5*
 " at depth of _____ fathoms, _____
 " at bottom, _____
 Number of salinometer, *7205*
 Barometer reading, *3004*
 State of sky, *Heavy*
 Direction of wind, *N. S. W.*; force, *2*
 Rain, _____
 Direction of surface current, _____; force, _____
 " of bottom " _____; force, _____
 Name of vessel, *'Fish Hawk'*
 Service to which attached, *U. S. F. C.*
 Name and rank of commanding officer, *R. Platt*
Lieutenant U. S. N.
 Name and position of observer,
James A. South
Master & S. M.

NOTES RELATING TO STATION NO. 1906,

*Yellow Sponge, Hermit Crabs, Sea Robins
1 Squid, and several Small Fish,*

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1907*
 Date, *Sept 8th 1894*
 Time of day, *12.05 P.M.*; of tide, *1/2 Flood Tide*
 Locality, *Vinyard Sound, Mass.*
 Exact position, *West end of Horse Shoe Shoal*
Blk Buoy #9 bears S. by W. dist 7 1/2 miles
 Depth, *10 Fms*
 Nature of bottom, *Gravel & Co. 750 Sand*
 Dredging instrument used, *7ft Beam Trawl*
 Direction of drift, _____; distance, _____
 Temperature of air, *72* therm. No., _____
 " of surface water, _____
 " at depth of _____ fathoms, _____
 " at bottom, _____
 Density at surface, *102410* temp., *68*
 " at depth of _____ fathoms, _____
 " at bottom, _____
 Number of salinometer, *7205*
 Barometer reading, *3009*
 State of sky, *bcldy.*
 Direction of wind, *S. W.*; force, *3*
 Rain, _____
 Direction of surface current, _____; force, _____
 " of bottom " _____; force, _____
 Name of vessel, *Fish Hawk*
 Service to which attached, *U. S. F. C.*
 Name and rank of commanding officer, *R. Platt*
Lieutenant U. S. N.
 Name and position of observer, *Jas A. Smith,*
Mate U. S. N.

NOTES RELATING TO STATION NO. 1907

Spider Crabs, Sponge, Live Coral, Worm
Tubes, 3 squid, several small Scud, and
Hermit Crabs.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1908*
 Date, *Sept 14 1894*
 Time of day, *9, a.m.* ; of tide, *1/4 quarter Ebb*
 Locality, *Menemsha Light Mass*
 Exact position, *3/4 mile N E of Lobster
view*
 Depth, *6 1/2 fms*
 Nature of bottom, *Fine Grey Sand*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, ; distance,
 Temperature of air, *72* therm. No.,
 " of surface water, "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *102490* temp., *64*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7052*
 Barometer reading, *3046*
 State of sky, *Cloudy*
 Direction of wind, *S. S. W.* ; force, *1*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U.S.F.C.*
 Name and rank of commanding officer, *W. D. Dodd*
Ensign U.S.N.
 Name and position of observer, *Ch. Cleveland*
Mate U.S.N.

NOTES RELATING TO STATION NO. 1908

Crabs - Starfish - Lobsters
Skate - Flounders - Sea Rabbits
Hermit Crabs, Dead shells

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1909*
 Date, *Sept 14th 1894*
 Time of day, *10:15 AM*; of tide, *1st quarter Ebb*
 Locality, *Menemsha Bight*
 Exact position, *1/16 mile N N E from Gay*
Head Lt No
 Depth, *3 fathoms*
 Nature of bottom, *white sandy bottom*
 Dredging instrument used, *7ft Beam Trawl*
 Direction of drift, _____; distance, _____
 Temperature of air, *72* therm. No., _____
 " of surface water, _____ " _____
 " at depth of _____ fathoms, _____ " _____
 " at bottom, _____ " _____
 Density at surface, *1024.8* temp., *65*
 " at depth of _____ fathoms, _____ " _____
 " at bottom, _____ " _____
 Number of salinometer, *7052*
 Barometer reading, *30.47*
 State of sky, *Cloudy*
 Direction of wind, *SSE*; force, *1*
 Rain, _____
 Direction of surface current, _____; force, _____
 " of bottom " _____; force, _____
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *USFC*
 Name and rank of commanding officer, *W. L. Dred*
Ensign USN
 Name and position of observer, *C. H. Cleveland*
Matr USN

NOTES RELATING TO STATION NO. 1909

Flounders - Skates - Crabs - Kelp
Sea Robbina - Starfish - Hermit
crabs - young sea bass
Stone crabs

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1910*
 Date, *Sept 14th 1894*
 Time of day, *10:55 a.m.*; of tide, *1st half Ebb*
 Locality, *Vineyard Sound*
 Exact position, *Abaka Pt. E. of Cuttyhunk Is. 123° 10'*
Cuttyhunk Is. to Gay Head Is. 99° 50'
 Depth, *13 1/2 fathoms*
 Nature of bottom, *gr sand bkn shells*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, *SSW* ; distance, *1/4 mile*
 Temperature of air, *73* therm. No.,
 " of surface water, "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1024.8* temp., *65*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7052*
 Barometer reading, *30.44*
 State of sky, *Cloudy*
 Direction of wind, *SSW* ; force, *1*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U S F C*
 Name and rank of commanding officer, *W L Doad*
Ensign USN
 Name and position of observer, *C H Cleveland*
Matth USN

NOTES RELATING TO STATION NO. 1910

obtained about a bushel of
material consisting of dead
shells - Skates - Crabs - Sand dollars
Star fish - young Sea Robbins
Hermit Crabs - Sea Urchins

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1911*
 Date, *Sept 14th 1894*
 Time of day, *12 Noon*; of tide, *3/4 Ebb*
 Locality, *Vineyard Sound*
 Exact position *Tobacco Pt Lt & Cuttyhunk St 113° 30'*
Cuttyhunk St & Gay Head St 121° 13'
 Depth, *14 fathoms*
 Nature of bottom, *sand gravel & shells*
 Dredging instrument used, *7ft Beam Trawl*
 Direction of drift, _____; distance, _____
 Temperature of air, *76* therm. No., _____
 " of surface water, *64 1/2* "
 " at depth of _____ fathoms, "
 " at bottom, _____ "
 Density at surface, *1024.8* temp., *64 1/2*
 " at depth of _____ fathoms, "
 " at bottom, _____ "
 Number of salinometer, *7052*
 Barometer reading, *30.40*
 State of sky, *Cloudy*
 Direction of wind, *SSW*; force, *2*
 Rain, _____
 Direction of surface current, _____; force, _____
 " of bottom " _____; force, _____
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *USFC*
 Name and rank of commanding officer, *Wd Brad*
Ensign USN
 Name and position of observer, *CH Cleveland*
Mate USN

NOTES RELATING TO STATION NO. 1911

Hundreds - Crabs - Hermit Crabs
Kelp - Sand dollars
Sea Urchins

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1912*Date, *Sept 19th 1894*Time of day, *2 45 P.M.*; of tide, *3/4 Ebb*Locality, *Buzzards Bay*Exact position, *Point of Wings Neck N 89° 36'**Wings Neck N 89° 36' E 1/4 mi of N 94° 01'*Depth, *3 fathoms + 4 ft*Nature of bottom, *Gr S + bk sp*Dredging instrument used, *7 ft B Trawl*

Direction of drift, ; distance,

Temperature of air, *65* therm. No.," of surface water, *69 1/2* "

" at depth of fathoms, "

" at bottom, "

Density at surface, *1022.6* temp., *69 1/2*

" at depth of fathoms, "

" at bottom, "

Number of salinometer, *7052*Barometer reading, *29.94*State of sky, *Cloudy*Direction of wind, *ENE* ; force, *2*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, *"Fish Hawk"*Service to which attached, *U.S.F.C.*Name and rank of commanding officer, *W. L. Dorr**Ensign U.S.N.*Name and position of observer, *C. H. Cleveland**Master U.S.N.*

NOTES RELATING TO STATION NO. 1912

a few pieces yellow sponge
dead conch shells - young sea urchins
Dead Escallop shells

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1913*Date, *Sept 19 1894*Time of day, *3 05 PM* ; of tide, *3/4 Ebb*Locality, *Buzzards Bay*Exact position, *River St to Wings Neck Lt 124° 26'**Wings Neck Lt to Tangent N end of Mashumud 58° 48'*Depth, *4 fathoms + 2 ft*Nature of bottom, *hard, S.*Dredging instrument used, *7 ft Beam Trawl*

Direction of drift, ; distance,

Temperature of air, *66* therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, *1022.6* temp., *69 1/2*

" at depth of fathoms, "

" at bottom, "

Number of salinometer, *7052*Barometer reading, *29.92*State of sky, *Cloudy*Direction of wind, *ENE* ; force, *2*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, *"Fish Hawk"*Service to which attached, *U.S. C*Name and rank of commanding officer, *W. L. Dood**Ensign USN*Name and position of observer, *L. H. Cleveland**Master USN*

NOTES RELATING TO STATION NO. 1913

About a bushel of yellow lump
springs a few live Escallops
dead Crinoid & Escallop shells

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1914

Date, Sept 19, 1894

Time of day, 3.30 PM; of tide, 3/4 Ebb

Locality, Buzzards Bay

Exact position, Bird Isd Lt & Wings Neck Lt 127° 08'

Wings Neck Lt Tangent Line of Machwood 50° 27'

Depth, 4 fathoms + 3 ft

Nature of bottom, Grd, S

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 66 therm. No.,

" of surface water, 69 1/2 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1022.6 temp., 69 1/2

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7052

Barometer reading, 29.92

State of sky, Cloudy

Direction of wind, ENE ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, USFC

Name and rank of commanding officer, W. L. Dood

Ensign USN

Name and position of observer, B. H. Cleveland

Mate USN

NOTES RELATING TO STATION NO. 1914

about two bushel of yellow lump
sponge, dead Escallops shells,
a few live Escallops and
Spider Crabs.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1915*
 Date, *Sept 26th 1894*
 Time of day, *2.10 PM*; of tide, *1/4 Flood*
 Locality, *Minimsha Bight*
 Exact position,

Depth, *7 fathoms*
 Nature of bottom, *Sandy bottom*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, ; distance,

Temperature of air, *64* therm. No.,
 " of surface water, *64* "
 " at depth of fathoms, "
 " at bottom, "

Density at surface, *1024.0* temp., *64*
 " at depth of fathoms, "
 " at bottom, "

Number of salinometer, *7052*
 Barometer reading, *3042*
 State of sky, *Partly Cloudy*
 Direction of wind, *East*; force, *5*
 Rain,

Direction of surface current, ; force,
 " of bottom " ; force,

Name of vessel, *"Fish Hawk"*
 Service to which attached, *U S F C*
 Name and rank of commanding officer, *W L Orad*
Ensign USN
 Name and position of observer, *B H Cleveland*
Mate USN

NOTES RELATING TO STATION NO. 1915

Obtained about $\frac{1}{2}$ bushel of material consisting of Lobsters Crabs - Star fish - Keep 4 yellow lump sponges - dead Clam shells Skate fish

NOTES RELATING TO STATION NO. 1916

obtained about 2 buckets

Material consisting of
lobster, flounder, crab
take, King fish, yellow
lump sponge, starfish
young sea Robin, Puffing
fish, 1 Black Bass,
(Callinectes mullus)

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1917*
 Date, *Oct 12 1894*
 Time of day, *7.15 AM*; of tide, *3/4 F. low*
 Locality, *Chesapeake Bay*
 Exact position, *Burton Bluff & Plantation*
~~*Station & No. to Chesapeake Bay & Cape Charles*~~
~~*City Dept. No.*~~
 Depth, *22 fathoms*
 Nature of bottom, *S & P. M. S.*
 Dredging instrument used, *7 ft B Trawl*
 Direction of drift, _____; distance, _____
 Temperature of air, *60* therm. No., _____
 " of surface water, *68* "
 " at depth of _____ fathoms, "
 " at bottom, "
 Density at surface, *1017.4* temp., *68*
 " at depth of _____ fathoms, "
 " at bottom, "
 Number of salinometer, *7052*
 Barometer reading, *3030*
 State of sky, *Clear*
 Direction of wind, *NE*; force, *2*
 Rain, _____
 Direction of surface current, _____; force, _____
 " of bottom " _____; force, _____
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U S F C*
 Name and rank of commanding officer, *W H Good*
Cousign USN
 Name and position of observer, *B H Cleaveland*
Master USN

NOTES RELATING TO STATION NO. 1917

obtained about 2 bushel of
Gorgonia sea grass
Numerous Hog Chokers. Starfish
Chokers. Crabs. Squilla

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1918*Date, *Oct 12 1894*Time of day, *7.45 AM*, of tide, *3/4 Flood*Locality, *Chesapeake Bay*Exact position, *Bacter Bluff & Plantations flats*

St. H. Co., Cherrystone Pt. H. & depth at
Cape Charles Co. — 20 fathoms

Nature of bottom, *B. M.*Dredging instrument used, *7 ft Beam Trawl*

Direction of drift, ; distance,

Temperature of air, *60* therm. No.," of surface water, *68* "

" at depth of fathoms, "

" at bottom, "

Density at surface, *1016.6* temp. *68*

" at depth of fathoms, "

" at bottom, "

Number of salinometer, *7052*Barometer reading, *30.30*State of sky, *Clear*Direction of wind, *NE* ; force, *5*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, *Fish Hawk*Service to which attached, *USF&C*Name and rank of commanding officer, *W. L. Brad**Ensign USN*Name and position of observer, *C. H. Cleveland**Matr USN*

NOTES RELATING TO STATION NO. 1918

Obtained about a basket of
material consisting of crabs
sterfish, crockers, King chicken
(numerous), Gorgonia - yellow string
sponge and grass. Crust eggs
1 sea Pigeon

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1919*
 Date, *Oct 12 1894*
 Time of day, *8.45 A.M.*; of tide, *Low of Flood*
 Locality, *Chesapeake Bay*
 Exact position, *Rattles Bluff & Plantation flats*
St No 00, Chesapeake Light & Depot
at Cape Charles City 00
 Depth, *26 fathoms*
 Nature of bottom, *Blk M*
 Dredging instrument used, *7 ft B. Trawl*
 Direction of drift, _____; distance, _____
 Temperature of air, *68* therm. No., _____
 " of surface water, *65* "
 " at depth of _____ fathoms, "
 " at bottom, "
 Density at surface, *1.016-3* temp., *65*
 " at depth of _____ fathoms, "
 " at bottom, "
 Number of salinometer, *7052*
 Barometer reading, *30.30*
 State of sky, *Clear*
 Direction of wind, *NE*; force, *3*
 Rain, _____
 Direction of surface current, _____; force, _____
 " of bottom, _____; force, _____
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U.S.F.C.*
 Name and rank of commanding officer, *Mr. Dorr*
Ensign USN
 Name and position of observer, *L.H. Cleveland*
Master USN

NOTES RELATING TO STATION NO. 1920

Obtained about 1/2 bushel of mitre
consisting of Cuckoo Crab - Shrimp
Gorgonia - Grass Hog Chuckers
Starfish - Coral. 1 Sea Pigeon

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1920*
 Date, *Oct 12th 1894*
 Time of day, *9.10 a.m.* ; of tide, *High water*
 Locality, *Chesapeake Bay*
 Exact position *Baiter Bluff & Plantation flats St*
N. 50 - Chryslin St No & Dept at Cape
Ches City 50
 Depth, *21 fathoms*
 Nature of bottom, *Blk M*
 Dredging instrument used, *7ft B Trawl*
 Direction of drift, ; distance,
 Temperature of air, *68* therm. No.,
 " of surface water, *66* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1.0164* temp., *66*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7052*
 Barometer reading, *30.30*
 State of sky, *Clear*
 Direction of wind, *NE* ; force, *3*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *U S F C*
 Name and rank of commanding officer, *W L Dred*
Ensign U S N
 Name and position of observer, *C H Cleveland*
Mate U S N

NOTES RELATING TO STATION NO. 1920

obtained about a bushel of material
consisting of *Grub*, *Cuckers*, *Cubs*,
Star fish, *Gorgonia*, *Dead shells*
with coral attached, *Hay chesters*
yellow lump sponges

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1921*
 Date, *Apr 23rd 1895*
 Time of day, *9.50 AM*; of tide, *Flood*
 Locality, *Chesapeake Bay*
 Exact position, *2 1/2 miles ESE of Great
Maries Pt*
 Depth, *18 faths*
 Nature of bottom,
 Dredging instrument used, *7 ft B Trawl with 14
glass floats attached to the beam*
 Direction of drift, ; distance,
 Temperature of air, *59* therm. No.,
 " of surface water, *53* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *10007* temp., *53*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7047*
 Barometer reading, *29.94*
 State of sky, *Clear & hazy over the bay*
 Direction of wind, *SE* ; force, *1*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U. S. F. C.*
 Name and rank of commanding officer, *Robt Platt
Lieut USN*
 Name and position of observer, *C H Cleveland
Mate USN*

NOTES RELATING TO STATION NO. 1921

At 10.20 hour in the Trawl

No specimens obtained

The Trawl was lowered about 12
to 15 fathoms from the surface
trying to catch fish at the
intermediate depths

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1922*
 Date, *April 23 1895*
 Time of day, *10.35 AM*; of tide, *Flood*
 Locality, *Chesapeake Bay*
 Exact position, *2 1/2 miles ESE of Great
Ticomicm Lt Ho*
 Depth, *18 fathoms*
 Nature of bottom,
 Dredging instrument used, *7 ft B Trawl with 14
glass floats attached to the beams*
 Direction of drift, ; distance,
 Temperature of air, *62* therm. No.,
 " of surface water, *53* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *10007-* temp., *53*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7047*
 Barometer reading, *2992*
 State of sky, *Clear, & hazy over the bay*
 Direction of wind, *S* ; force, *1*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U S F B Ste Fish Hawk*
 Service to which attached, *U S F. Commission*
 Name and rank of commanding officer, *Robt P. late
Lieut USN*
 Name and position of observer, *B. H. Cleveland
Mate USN*

NOTES RELATING TO STATION NO. 1923

The Trawl was lowered to the bottom
at 11.30, and hove in at Noon
containing about 8 bushel of mud &
dead grass, crabs, Hog chickens
squills, Jackfish, Flounders, Hake
Shrimp

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1924*Date, *Apr 23 1895*Time of day, *12.30 PM* ; of tide, *Ebb*Locality, *Chesapeake Bay*Exact position, *2 1/2 miles S E by E of Great
Wicomico Shoals*Depth, *11 fathoms*Nature of bottom, *h s*Dredging instrument used, *7 ft B Trawl with 14 glass
flats attached to the beam*

Direction of drift, ; distance,

Temperature of air, *64* therm. No.," of surface water, *53* "

" at depth of fathoms, "

" at bottom, "

Density at surface, *10008.4* temp., *53*

" at depth of fathoms, "

" at bottom, "

Number of salinometer, *7047*Barometer reading, *29.92*State of sky, *Clear, and hazy over the bay*Direction of wind, *S* ; force, *2*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, *"Fish Hawk"*Service to which attached, *U. S. Fish Commission*Name and rank of commanding officer, *Rebt Platt**Lieut. U.S.N.*Name and position of observer, *C. H. Cleveland**Acting Lieut.*

NOTES RELATING TO STATION NO. 1924

At 12.30 the trawl was lowered
to the bottom and hauled in at 12.55
catching a little dead grass and a
few shrimps. suspended operations
and headed in for Great Nicomes
River Van

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1925*
 Date, *Sept 14 1895*
 Time of day, *9.25 a.m.*; of tide,
 Locality, *off Pensacola*
 Exact position, *Pensacola light bearing ¹⁰⁰⁰ 24 miles*
Sudge down 9.15 at bottom 9.3.5
up 10 at surface 10.9
 Depth, *26 fathoms* at *9.40, 27 fathoms* ^{*16-29 fms*}
 Nature of bottom, *Gr S & M spe*
 Dredging instrument used, *7 foot Beam Trawl*
 Direction of drift, ; distance,
 Temperature of air, *94* therm. No.,
 " of surface water, *86* "
 " at depth of fathoms, "
 " at bottom, *78* "
 Density at surface, *1022.2* temp., *86*
10 a.m.
 " at depth of *1022.4* fathoms, " *85*
 " at bottom, *1026.0* " *78*
10 a.m.
 Number of salinometer, *7052* " *77*
 Barometer reading, *29.84*
 State of sky, *Clear*
 Direction of wind, *South* ; force, *1*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U. S. F. Commission*
 Name and rank of commanding officer, *J. Swifts*
Lieut USN
 Name and position of observer, *C. H. Chaplains*
Matr USN

NOTES RELATING TO STATION NO. 1925

Obtained about a bushel of material consisting of 2 small octopuses, ^{2 1/2 ft} Coral, Five Scallop Shells - Red Lump sponge a few small Shrimp - & young crabs 1 Pipe Fish - 1 Sea Robin - 1 Rose fish 1 young Squid - Haliethurium 1 worm tube - Esquilla - 1 Star fish 1 large Sea Anemone - 1 small Star fish - 1 sand dab 1 small octopus about 4 in circumference
The body of the octopus over about 7 inches long & the tentacles about 12 inches in length

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1926*
 Date, *Sept 14 95*
 Time of day, *10, 25 AM* of tide,
 Locality, *off Pensacola*
 Exact position, *Pensacola Pt. Ho bearing N 57 W dist 2.4 miles*
Sudge down 10, 25 at bottom 10, 35
ledge up 11, 10 " surface 11, 25
 Depth, *29 fathoms*
 Nature of bottom, *Gr S ybk spts*
 Dredging instrument used, *7 foot Bean Trawl*
 Direction of drift, ; distance,
 Temperature of air, *91* therm. No.,
 " of surface water, *85* "
 " at depth of fathoms, "
 " at bottom, *77* "
 Density at surface, *1022.4* temp., *85*
 " at depth of fathoms, "
 " at bottom, *1026.0* " *77*
 Number of salinometer, *70.52*
 Barometer reading, *29.84*
 State of sky, *Clear*
 Direction of wind, *South* ; force, *1*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *U. S. Fish Commission*
 Name and rank of commanding officer, *J. Swift*
Lieut USN
 Name and position of observer, *C. H. Cleveland*
Acting USN

NOTES RELATING TO STATION NO. 1926

Obtained a small quantity of material
but no material left,
net was torn, Caught ~~the~~ Octopus
about 5 ft in circumference, some
Red Coral, 3 small star fish,
1 bucket of sponge (about 1/2 pail of dead
Scallop shells) 1 small squid
1 small bat fish, 1 sea urchin
1 sand dollar

The brain of the octopus was
about 10 inches long and the
tentacles about 18" long

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1927*
 Date, *Sept 14 1895*
 Time of day, *11.50 A.M.*; of tide,
 Locality, *Off Pensacola*
 Exact position, *Pensacola Lt Ho bearing N 10 W 2 1/2 miles*
Sledge down 11.50 at bottom 12 mins
" " 1.05 " surface 1.15
 Depth, *23 fathoms*
 Nature of bottom, *Gr S & bk spts*
 Dredging instrument used, *7ft Beam Trawl*
 Direction of drift, : distance,
 Temperature of air, *90* therm. No.,
 " of surface water, *86* "
 " at depth of fathoms, "
 " at bottom, *78* "
 Density at surface, *1022.2* temp., *86*
 " at depth of fathoms, "
 " at bottom, *1026.0* " *78*
 Number of salinometer, *70.52*
 Barometer reading, *29.84*
 State of sky, *Clear*
 Direction of wind, *South*; force, *1*
 Rain,
 Direction of surface current, : force,
 " of bottom " : force,
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U.S.F. Commission*
 Name and rank of commanding officer, *F. Swifts*
Lieut U.S.N.
 Name and position of observer, *C.H. Cleveland*
Mate U.S.N.

NOTES RELATING TO STATION NO. 1927

Obtained about one bushel
of material consisting of
3 octopuses about 6 inches in
length with tentacles about
10 inches long,

One bucket of Rock Coral,
1/2 peck of dead Scallops
Shells, a few small fish
which were not identified,
2 Sea Eels and a few
Shrimp

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____
 Date, _____
 Time of day, _____ ; of tide, _____
 Locality, _____
 Exact position, _____

 Depth, _____
 Nature of bottom, _____
 Dredging instrument used, _____
 Direction of drift, _____ ; distance, _____
 Temperature of air, _____ therm. No., _____
 " of surface water, _____ " _____
 " at depth of _____ fathoms, _____ " _____
 " at bottom, _____ " _____
 Density at surface, _____ temp., _____
 " at depth of _____ fathoms, _____ " _____
 " at bottom, _____ " _____
 Number of salinometer, _____
 Barometer reading, _____
 State of sky, _____
 Direction of wind, _____ ; force, _____
 Rain, _____
 Direction of surface current, _____ ; force, _____
 " of bottom " _____ ; force, _____
 Name of vessel, _____
 Service to which attached, _____
 Name and rank of commanding officer, _____
 Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____
 Date, _____
 Time of day, _____ ; of tide, _____
 Locality, _____
 Exact position, _____

 Depth, _____
 Nature of bottom, _____
 Dredging instrument used, _____
 Direction of drift, _____ ; distance, _____
 Temperature of air, _____ therm. No., _____
 " of surface water, _____ " _____
 " at depth of _____ fathoms, _____ " _____
 " at bottom, _____ " _____
 Density at surface, _____ temp., _____
 " at depth of _____ fathoms, _____ " _____
 " at bottom, _____ " _____
 Number of salinometer, _____
 Barometer reading, _____
 State of sky, _____
 Direction of wind, _____ ; force, _____
 Rain, _____
 Direction of surface current, _____ ; force, _____
 " of bottom " _____ ; force, _____
 Name of vessel, _____
 Service to which attached, _____
 Name and rank of commanding officer, _____
 Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____
 Date, _____
 Time of day, _____ ; of tide, _____
 Locality, _____
 Exact position, _____

 Depth, _____
 Nature of bottom, _____
 Dredging instrument used, _____
 Direction of drift, _____ ; distance, _____
 Temperature of air, _____ therm. No., _____
 " of surface water, _____ " _____
 " at depth of _____ fathoms, _____ " _____
 " at bottom, _____ " _____
 Density at surface, _____ temp., _____
 " at depth of _____ fathoms, _____ " _____
 " at bottom, _____ " _____
 Number of salinometer, _____
 Barometer reading, _____
 State of sky, _____
 Direction of wind, _____ ; force, _____
 Rain, _____
 Direction of surface current, _____ ; force, _____
 " of bottom " _____ ; force, _____
 Name of vessel, _____
 Service to which attached, _____
 Name and rank of commanding officer, _____
 Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____
 Date, _____
 Time of day, _____ ; of tide, _____
 Locality, _____
 Exact position, _____

 Depth, _____
 Nature of bottom, _____
 Dredging instrument used, _____
 Direction of drift, _____ ; distance, _____
 Temperature of air, _____ therm. No., _____
 " of surface water, _____ " _____
 " at depth of _____ fathoms, _____ " _____
 " at bottom, _____ " _____
 Density at surface, _____ temp., _____
 " at depth of _____ fathoms, _____ " _____
 " at bottom, _____ " _____
 Number of salinometer, _____
 Barometer reading, _____
 State of sky, _____
 Direction of wind, _____ ; force, _____
 Rain, _____
 Direction of surface current, _____ ; force, _____
 " of bottom " _____ ; force, _____
 Name of vessel, _____
 Service to which attached, _____
 Name and rank of commanding officer, _____
 Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____
 Date, _____
 Time of day, _____ ; of tide, _____
 Locality, _____
 Exact position, _____

 Depth, _____
 Nature of bottom, _____
 Dredging instrument used, _____
 Direction of drift, _____ ; distance, _____
 Temperature of air, _____ therm. No., _____
 " of surface water, _____ " _____
 " at depth of _____ fathoms, _____ " _____
 " at bottom, _____ " _____
 Density at surface, _____ temp., _____
 " at depth of _____ fathoms, _____ " _____
 " at bottom, _____ " _____
 Number of salinometer, _____
 Barometer reading, _____
 State of sky, _____
 Direction of wind, _____ ; force, _____
 Rain, _____
 Direction of surface current, _____ ; force, _____
 " of bottom " _____ ; force, _____
 Name of vessel, _____
 Service to which attached, _____
 Name and rank of commanding officer, _____
 Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.