

1849 to 1898

July 10-93 to Aug 23rd 1894

ORIGINAL LOG BOOK OF THE "EISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1849 to 1898

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1849
 Date, July 10 1893
 Time of day, 10.10 am; of tide, Flood
 Locality, 2 1/2 miles S of Norman's Land
 Exact position, Gay Head S 40 W 1/8 E 9 miles
Centy. head S 40 W 1/2 W 14 1/2 miles
 Depth, 15 fms
 Nature of bottom, Hard
 Dredging instrument used, Beam Trawl
 Direction of drift, S 2 E; distance, 1/4 mile
 Temperature of air, 67 therm. No.,
 " of surface water, 64 "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, 80.24.2 temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, 30.09
 State of sky, bless
 Direction of wind, SW; force, 2
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, U.S. 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,
J. M. Mather

NOTES RELATING TO STATION NO. 1849

Hake
Whiting
Sand Dollars
Skate

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1850
 Date, July 10, 1893
 Time of day, 10.34 a.m.; of tide, Flood
 Locality, 4 1/2 miles S of No mans Land
 Exact position, Gay head S 40° N 1/4 E 10 1/2 miles
Leutlybank S 40° N 1/4 W 16 miles
 Depth, 17 fms
 Nature of bottom, Hard mud
 Dredging instrument used, Beam trawl
 Direction of drift, NE; distance, 1/4 mile
 Temperature of air, 68 therm. No.,
 " of surface water, 64 "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, 1.02412 temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, 30.09
 State of sky, clear
 Direction of wind, SW; force, 2
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, U.S. 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, John Lighter
Master

NOTES RELATING TO STATION NO. 1850

Lake Skate Flounders
Hermit Crabs Sand dollars

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1851*
 Date, *July 10th 1893*
 Time of day, *10:58 AM*; of tide, *Flood*
 Locality, *4 1/2 miles SSW of Inmane Sand*
 Exact position, *Gay heat to No. 1 7/8 10 1/4 miles*
County trunk to No. 1 3/4 or 15 miles
 Depth, *15 fms 3 fms*
 Nature of bottom, *Hard*
 Dredging instrument used, *Beau Trawl*
 Direction of drift, *NE*; distance, *1/4 mile*
 Temperature of air, *67* therm. No.,
 " of surface water, *64* "
 " at depth of fathoms, "
 " at bottom, *1* "
 Density at surface, *102412* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.19*
 State of sky, *Bclear*
 Direction of wind, *North*; force, *1*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *2676 Ste Fish Hawk*
 Service to which attached, *2676*
 Name and rank of commanding officer, *Robert Platt*
Lieut USN
 Name and position of observer,
 John Lighthouse
 Whatey

NOTES RELATING TO STATION NO. 1851

Sea Anemone Flounders Snake
Land dollar starfish Hermit
Crabs skate

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1852
 Date, July 10 1893
 Time of day, 11.24 Am; of tide, Flood
 Locality, 4 miles
 Exact position, Gay head S 1/40 N x 2 1/2 E 10 miles
Castle head S 1/40 N 1/2 W 14 1/2 miles
 Depth, 13 fms 13 20
 Nature of bottom, Hard
 Dredging instrument used, Beam Trawl
 Direction of drift, NE; distance, 1/2 mile
 Temperature of air, 67 therm. No.,
 " of surface water, 64 "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, 1.0242 temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, 30.09
 State of sky, clear
 Direction of wind, South; force, 2
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, U.S. 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,
Julien
Mathew

NOTES RELATING TO STATION NO. 1852

Skate Hake flounders
sand dollars worms prae

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1853*
 Date, *July 10 1893*
 Time of day, *1.15 P.M.* ; of tide, *Flood*
 Locality, *Block Island Sound*
 Exact position, *Ledgehead Light NE $1/4$ N $5/8$ mile*
Castletowne Light N $3/8$ W 9 miles
 Depth, *15 fms*
 Nature of bottom, *Hard*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *NNE* ; distance, *1/4 mile*
 Temperature of air, *67* therm. No.,
 " of surface water, *64* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *102412* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.09*
 State of sky, *Clear*
 Direction of wind, *W-N-W* ; force, *1*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S. 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, *J. M. Johnston*
Master U.S.N.

NOTES RELATING TO STATION NO. 1853

Sculpin Hake Whiting Grounders
Starfish Leunners

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1854*
 Date, *July 11 1893*
 Time of day, *1.40 P.M.*; of tide, *Flood*
 Locality, *Block Isd Sound*
 Exact position, *Gayheads Lt No 1 & E 1/2 E 5 7/8 miles*
Leathams Lt No 1 & E 7 1/4 miles
 Depth, *17 fms*
 Nature of bottom, *Muddy*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *N E*; distance, *1/4 mile*
 Temperature of air, *67* therm. No.,
 " of surface water, *64* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1.024.2* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.09*
 State of sky, *clear*
 Direction of wind, *W*; force, *1*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S.F.C. Ste 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,
John L. Nighton
Master U.S.N.

NOTES RELATING TO STATION NO. 1854

Starfish Flounders Nake
Hermit Crabs

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1855*
 Date, *July 10th 1893*
 Time of day, *2:40 Pm*; of tide, *Flot*
 Locality, *Block Island Sound*
 Exact position, *Gayhead Shoals E 1/4 N 1/4 3 1/2 miles*
Centybank Shoals N 42 W 7/8 W 5 1/2 "
 Depth, *14 fms*
 Nature of bottom, *Hard*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *North*; distance, *1/4 mile*
 Temperature of air, *67* therm. No.,
 " of surface water, *64* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1.02412* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.09*
 State of sky, *Clear*
 Direction of wind, *W N W*; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S. Fish Hawk*
 Service to which attached, *U.S. Fish*
 Name and rank of commanding officer, *Robert Platt*
Lieut. U.S.N.
 Name and position of observer, *J. M. Lightham*
Master U.S.N.

NOTES RELATING TO STATION NO. 1855

Starfish Flounders Skate
Sea Raven Hermit Crabs
Mussels Sand Crab

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1856*
 Date, *July 10, 1893*
 Time of day, *2:56 P.M.*; of tide, *Flood*
 Locality, *Vineyard Sound*
 Exact position, *Gayhead S to N S S W 2 1/8 miles*
cuttyhunk S to N N W 1/2 W 5 1/2 "
 Depth, *14 fms*
 Nature of bottom, *Hard*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *N x E* ; distance, *1/4 mile*
 Temperature of air, *66* therm. No.,
 " of surface water, *64* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1024* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.04*
 State of sky, *Clear*
 Direction of wind, *N x W* ; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S.F.C. Ste 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,
Wilmington
W. H. Mather U.S.N.

NOTES RELATING TO STATION NO. 1856

Starfish, Sea Ravens
Skate, Hake, Sand
Dollars, Kelp
Hermit-crabs, Grass

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1857*
 Date, *July 10 1893*
 Time of day, *3.26 P.M.*; of tide, *Flood*
 Locality, *Vineyard Sound*
 Exact position, *Eight miles S by W 1/2 W 3 1/2 miles
Scutt's bank S by W 1/2 W 6 1/2 miles*
 Depth, *13 fms*
 Nature of bottom, *Hard*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *N by E* ; distance, *1/4 mile*
 Temperature of air, *66* therm. No.,
 " of surface water, *66* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1024* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.09*
 State of sky, *Clear*
 Direction of wind, *N by W* ; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S.F.C. Ste 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, *J. M. [unclear]
Master*

NOTES RELATING TO STATION NO. 1857

Hogchoker Sand dollars
Skate Starfish Hermit
4 rock crabs

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1858*Date, *July 10 1893*Time of day, *3.50 PM*; of tide, *Flood*Locality, *Vineyard Sound*Exact position, *Gayhead to No 5 N x W 7/8 W 3 miles*
*Scutt's head to No 1 N x N 1/4 N 5 5/8 miles*Depth, *14 fms 2 ft*Nature of bottom, *Hard*Dredging instrument used, *Beam Trawl*Direction of drift, *N x E*; distance, *1/4 mile*Temperature of air, *66*

therm. No.,

" of surface water, *64*

" at depth of fathoms, "

" at bottom, "

Density at surface, *1024*

temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, *30.09*State of sky, *Clear*Direction of wind, *N x W*; force, *2*

Rain,

Direction of surface current,

; force,

" of bottom "

; force,

Name of vessel, *U S F C Str 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, *Imberighton*
Master

NOTES RELATING TO STATION NO. 1858

Starfish Skate Hake
Whiting Pectins Sea urchin
Flounders, Hermit Crabs
Sand dollars Shell & foam

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1859*
 Date, *July 12' 1893*
 Time of day, *9.15 am*; of tide, *Flood*
 Locality, *Buzzard Bay*
 Exact position, *Alaska S. Co. E 3 E 5 1/2 miles*
and Alaskan N. Co. N 1/4 N 8 3/8 miles
 Depth, *8 fms*
 Nature of bottom, *Sticky*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *NR*; distance, *1/4 mile*
 Temperature of air, *68* therm. No.,
 " of surface water, *65* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1023.4* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.18*
 State of sky, *cloudy*
 Direction of wind, *SW*; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S. Steamer 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, *J. M. ...*
Master

NOTES RELATING TO STATION NO. 1859

Hornshell Spider Crabs
Rock Crabs black mud

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1860

Date, July 12th 1893

Time of day, 9.40 ; of tide, Flood

Locality, Buzzard Bay

Exact position, Naska Co No 86 x E 1/2 E 5 1/2 miles

Bridal Is. Co No 4 x E 1/2 E 7 3/8 miles

Depth, 8 fms 3 fms

Nature of bottom, Mucky

Dredging instrument used, Beam Trawl

Direction of drift, N N W ; distance, 1/4 mile

Temperature of air, 69 therm. No.,

" of surface water, 65 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023.2 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.18

State of sky, cloudy

Direction of wind, S W ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Hawk

Service to which attached, U.S. Fish

Name and rank of commanding officer, Robert Platt

Lieut. U.S.N.

Name and position of observer,

J. M. Lightham
Master

NOTES RELATING TO STATION NO. 1860

Shell Grass worms
black mud.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1861*
 Date, *July 29. 1893*
 Time of day, *2.30 PM*; of tide, *1/2 flood*
 Locality, *Eastern Harbor Me*
 Exact position, *Triars Head 3 1/4 W 1/16 miles*
Coube narrows 3 1/4 W 1/4 miles
 Depth, *18 fathoms*
 Nature of bottom, *hard*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, _____; distance, _____
 Temperature of air, *63* therm. No., _____
 " of surface water, *51* "
 " at depth of *18* fathoms, *57* "
 " at bottom, *51* "
 Density at surface, *1025.6* temp., *51°*
 " at depth of _____ fathoms, _____
 " at bottom, *1025.4* " *51°*
 Number of salinometer, _____
 Barometer reading, *29.94*
 State of sky, *cloudy & rainy*
 Direction of wind, *SSW*; force, *3*
 Rain, _____
 Direction of surface current, _____; force, _____
 " of bottom " _____; force, _____
 Name of vessel, *U.S. Frigate Fish Hawk*
 Service to which attached, *U.S. Frigate*
 Name and rank of commanding officer, *Robert Platt*
Lieut. U.S.N.
 Name and position of observer, *J. M. Lighton*
Master

NOTES RELATING TO STATION NO. 1861.

1 Star fish & Skulpin sponge
Tunicates (Balanus).
Polychaetes, (Pentacta)
Star fish (Asterias & Crinella
etc.) 2 Sculpins and
one Ophiidian, Lechichthys
in Murex, Flounders -
(P. americanus)

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1862*
 Date, *July 29. 1893*
 Time of day, *5 PM* ; of tide, *1/2 flood*
 Locality, *Eastport harbor*
 Exact position, *Friars Head S S W 1/4 W 1 7/8 miles*
*Laurel Harrow to S * W 2 3/4 miles*

Depth, *30 fathoms*
 Nature of bottom, *hard*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, ; distance,

Temperature of air, *63* therm. No.,

“ of surface water, *50* “

“ at depth of fathoms, “

“ at bottom, “

Density at surface, *1025.2* temp., *50*

“ at depth of fathoms, “

“ at bottom, “

Number of salinometer,

Barometer reading, *29.94*

State of sky, *Cloudy & raining*

Direction of wind, *S S W* ; force, *2*

Rain,

Direction of surface current, ; force,

“ of bottom “ ; force,

Name of vessel, *U.S. Fish Hawk*

Service to which attached, *U.S. Fish*

Name and rank of commanding officer, *Robert Platt*

Sergeant U.S.N.

Name and position of observer, *C. H. Cleveland*

mate U.S.N.

NOTES RELATING TO STATION NO. 1862

Sponge, 3 sea Raven 2 Skulpin
mussel shells, several small
brittle star fish, Barnacles,
shrimp, Tunicates, Annelids,
1. agonids

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1863*
 Date, *August 9, 1893*
 Time of day, *11 52 AM*; of tide, *Slack*
 Locality, *St. Croix River Maine*
 Exact position, *about 1/2 m N 1/2 W 5/4 m*
St. Andrews St. E x N 1/4 N 2 miles
 Depth, *13 fms*
 Nature of bottom, *Soft*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *ESE* ; distance, *1/4 mile*
 Temperature of air, *70* therm. No.,
 " of surface water, *55* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1024.4* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.10*
 State of sky, *Clear*
 Direction of wind, *South* ; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S.F.C. Ste Fish Hawk*
 Service to which attached, *U.S.F.C.*
 Name and rank of commanding officer, *Robert Platt*
Sr Lieut U.S.N.
 Name and position of observer,
 J. M. [unclear]
 Mate [unclear]

NOTES RELATING TO STATION NO. 1863

Jelly fish star fish mud
One large basket star fish

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1864*Date, *Sept 23^d 1893*Time of day, *10, 36 am* ; of tide, *ebb*Locality *Mouth of Chesapeake Bay*Exact position, *Thimble Shoar Light 11 7/8 miles**Cape Henry Light 5 7/8 E 1/2 miles*Depth, *11, 3*Nature of bottom, *Hard*Dredging instrument used, *Beam Trawl*Direction of drift, *E x S* ; distance, *1/4 mile*Temperature of air, *79* therm. No.," of surface water, *75* "

" at depth of fathoms, "

" at bottom, "

Density at surface, *1014* temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, *29.97*State of sky, *clear*Direction of wind, *calm* ; force, *1*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, *U.S. Fish Hawk*Service to which attached, *U.S. F. & M.*Name and rank of commanding officer, *Robert Platt**Squid U.S.N.*

Name and position of observer,

*J. M. S. T. M.
Master of the*

NOTES RELATING TO STATION NO. 1864

Squid Short minnows Whiting
Crabs Kingfisher Starfish
Crabs Skate eggs Spider
Crabs Kingfisher

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1865*
 Date, *September 23rd 1893*
 Time of day, *10.58 Am* ; of tide, *ebb*
 Locality, *Mouth Ches Bay*
 Exact position, *Thimble Shoar R & R 12 7/8 miles*
Cape Henry S 1/4 S R 1/2 S 1 1/4 miles
 Depth, *10.2*
 Nature of bottom, *Hard*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *E x S* ; distance, *1/4 mile*
 Temperature of air, *80* therm. No.,
 " of surface water, *75* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *10.73.6* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *29.96*
 State of sky, *clear*
 Direction of wind, *calm* ; force,
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S. 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,

J. M. Moulton
Master

NOTES RELATING TO STATION NO. 186d

1 Squilla Squid Starfish Trout
Crabs. Spot. short minnows
Crabs. Skate eggs. Hog Chokers
Shrimp

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1866*
 Date, *September 23 1893*
 Time of day, *11:15 Am*; of tide, *ebb*
 Locality, *Chesapeake Bay*
 Exact position, *Pointe SE No Str NW $\frac{3}{8}$ W $\frac{13}{8}$ miles*
Cape Henry SE No Str NW $\frac{1}{4}$ miles
 Depth, *10*
 Nature of bottom, *Hard*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *E x S*; distance, *$\frac{1}{4}$ mile*
 Temperature of air, *81* therm. No.,
 " of surface water, *75* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *10, 13, 2*
 Barometer reading, *29.96*
 State of sky, *Clear*
 Direction of wind, *East*; force, *1*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U S F C Ste Fish Hawk*
 Service to which attached, *U S F C*
 Name and rank of commanding officer, *Robert Platt*
Lieut - 26 Sn
 Name and position of observer,
 Wilmington
 Wm H. S. S. S.

NOTES RELATING TO STATION NO. 1866

Squilla shrimp Trout
Croakers squid Starfish
Hog chokers skate eggs
short rainnows

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1867*
 Date, *September 23^d 1893*
 Time of day, *11.41 AM* ; of tide, *Ebb*
 Locality, *Mouth Ches Bay*
 Exact position, *Thimble Shoar N. 4 W 14 5/8 miles*
Cape Henry S. 40 W 7/8 S 2 3/8 miles
 Depth, *10 fms*
 Nature of bottom, *Hard*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *E S* ; distance, *1/4 mile*
 Temperature of air, *79* therm. No.,
 " of surface water, *75.5* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *10138* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *29.96*
 State of sky, *Clear*
 Direction of wind, *S E* ; force, *1*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S. Fl. Ste. 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,
 J. L. Lighter
 Master U.S.N.

NOTES RELATING TO STATION NO. 1867

Tomt Croakers Hog chokers
Shrimp whiting. Young blue fish
squid short mackerels
Star fish skate eggs
young brime crabs

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.,

1868

Date,

September 23rd 1893

Time of day,

12.06 PM ; of tide, ebb

Locality,

North Chesapeake Bay

Exact position,

Thimble Shoals Light 7/8 W 10 miles

Cape Henry Light 3/4 N 2 1/2 miles

Depth,

8.3

Nature of bottom,

Sand

Dredging instrument used,

Beam Trawl

Direction of drift,

SSE 1/2 E ; distance, 1/4 mile

Temperature of air,

79

therm. No.,

"

of surface water,

75.5

"

"

at depth of fathoms,

"

"

at bottom,

"

Density at surface,

1015.6

temp.,

"

at depth of fathoms,

"

"

at bottom,

"

Number of salinometer,

Barometer reading,

29.95

State of sky,

Clear

Direction of wind,

SE

; force,

2

Rain,

Direction of surface current,

; force,

"

of bottom

"

; force,

Name of vessel,

U.S. Fish Hawk

Service to which attached,

U.S. Fish

Name and rank of commanding officer,

Robert Platt

Lieut-Usn

Name and position of observer,

Julian

Tate Usn

NOTES RELATING TO STATION NO. 1868

A few Crabs
Small minnows + Crabs
Starfish Dors. Skate eggs

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1869*
 Date, *September 25th 1893*
 Time of day, *11.40* ; of tide, _____
 Locality, *Chesapeake Bay*
 Exact position, *Cherry stone Lt NOE 1/2 x 7/8 N 1/8 m*
Old Plantation Lt NO S 8 1/4 S 1 7/8 miles
 Depth, *21 faths*
 Nature of bottom, *Shells + coral*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *Swest* ; distance, *1/4 mile*
 Temperature of air, *82* therm. No., _____
 " of surface water, *74* " *50.40*
 " at depth of _____ fathoms, " _____
 " at bottom, " _____
 Density at surface, *1018.* temp., *74*
 " at depth of _____ fathoms, " _____
 " at bottom, " _____
 Number of salinometer, *7049*
 Barometer reading, *3006*
 State of sky, *Clear*
 Direction of wind, *S W* ; force, *3*
 Rain, _____
 Direction of surface current, _____ ; force, _____
 " of bottom " _____ ; force, _____
 Name of vessel, *U.S. Steamer Hawk*
 Service to which attached, *U.S. Navy*
 Name and rank of commanding officer, *Robert Platt*
Ensign U.S.N.
 Name and position of observer, _____
John H. ...
Master

NOTES RELATING TO STATION NO. 1869

A quantity of Coral
Crabs - Cockles
Gorgonia - Squid
Scallop shells covered with
coral, a few small Scleractinia
and Jelly Fish, yellow lump
sponges

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1870*
 Date, *Sept 25 1893*
 Time of day, *12 noon*; of tide,
 Locality, *Chesapeake Bay*
 Exact position, *Cherrytone Ln Ext 1/2 - 1 1/8 miles*
Old Plantation Ct No SE 1/4 S 1 3/4 miles
 Depth, *18 fathoms*
 Nature of bottom, *soft mud & shells*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *South*; distance, *1/4 mile*
 Temperature of air, *82* therm. No.,
 " of surface water, *74* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1018*, temp., *74*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7049*
 Barometer reading, *30.02*
 State of sky, *Clear*
 Direction of wind, *SW*; force, *3*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S.F.C. Fish Hawk*
 Service to which attached, *U.S.F.C.*
 Name and rank of commanding officer, *R. Platt*
Senior Lieut
 Name and position of observer, *C. H. Cleaveland*
 Master

NOTES RELATING TO STATION NO. 1870

about 3 bushel of yellow
lump sponge & scallop shells
& coral. Sargonia. Crabs
Stems covered with coral
oyster & hard clam shells,
sea urchins & spider crabs,
Fossil was thin badly
& some of material lost

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1871*
 Date, *Nov 19th 1893*
 Time of day, *11:45 AM* of tide, *Ebb*
 Locality, *Chesapeake Bay*
 Exact position, *Smiths Pt Et H. N x N 3/4 N*
3 1/4 miles
Wicomico Et H. S W x W 7 miles
 Depth, *7 fathoms and 2 ft*
 Nature of bottom, *hard*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *S W* ; distance, *1/8 miles*
 Temperature of air, *48* therm. No.,
 " of surface water, *52* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1014.0* temp., *52*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.08*
 State of sky, *Cloudy*
 Direction of wind, *NNE* ; force, *5*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U. S. S. "Fish Hawk"*
 Service to which attached, *U. S. F. C.*
 Name and rank of commanding officer, *R Platt*
Capt USN
 Name and position of observer, *Ch Chasman*
Master USN

NOTES RELATING TO STATION NO. 1871

Trawl was torn & most of material lost, but secured about 1/2 pck of Coral sponge, a few crabs & shrimp.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1872*Date, *Nov 19th 1893*Time of day, *12.05 PM*, of tide, *Ebb*Locality, *Chesapeake Bay*Exact position, *Smiths Pt Ct No W x N 3/4 N**3 1/4 miles*
*Wicomico Ct No S W x N 7 miles*Depth, *8 fathoms*Nature of bottom, *hard*Dredging instrument used, *Oyster dredge*Direction of drift, *SW* ; distance, *1/8 mile*Temperature of air, *48* therm. No.," of surface water, *52* "

" at depth of fathoms, "

" at bottom, "

Density at surface, *1.014.0* temp., *52*

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, *30.08*State of sky, *Cloudy*Direction of wind, *NNE* ; 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, *R Platt**Lieut. U.S.N. Comdr.*Name and position of observer, *A. H. Cleveland**Master U.S.N.*

NOTES RELATING TO STATION NO. 1872

Obtained one Oyster $\frac{1}{2}$ peck
of Coral Sponge & several small
stones, the largest weighing about
8 lbs

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1873*
 Date, *Apr 19" 1893*
 Time of day, *12.20 PM*; of tide, *Ebb*
 Locality, *Chesapeake Bay*
 Exact position, *Smiths Pt St No N W x N 7/8 W*
3 miles
Wicomico St No S W x N 1/8 W 7 1/2 miles
 Depth, *10 fathoms*
 Nature of bottom, *Sticky*
 Dredging instrument used, *Oyster Dredge*
 Direction of drift, *N x W*; distance, *1/8 mile*
 Temperature of air, *48* therm. No.,
 " of surface water, *52* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1014.0* temp., *52*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.08*
 State of sky, *Cloudy*
 Direction of wind, *NNE*; force, *5*
 Rain,
 Direction of surface current, *S*; force, *2*
 " of bottom " ; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *USFCS*
 Name and rank of commanding officer, *R Platt*
Sir's Up Comd
 Name and position of observer, *Ch Cleveland*

NOTES RELATING TO STATION NO. 1873

Obtained $\frac{1}{2}$ basket coral
sponge & dead grass, also
three live Oysters with spat
& a few dead Oyster shells

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1874*
 Date, *Apr 19" 1893*
 Time of day, *2,45 PM*, of tide, *Flood*
 Locality, *Chesapeake Bay*
 Exact position, *Smiths Pt Sth W 2 1/8 miles*
Wicomic Sth SW 1/2 W 7 1/16 miles
 Depth, *15 faths*
 Nature of bottom, *Sticky*
 Dredging instrument used, *Oyster Dredge*
 Direction of drift, *N* ; distance, *1/8 mile*
 Temperature of air, *48* therm. No.,
 " of surface water, *52* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1013.0* temp., *52*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.08*
 State of sky, *Cloudy*
 Direction of wind, *NNE* ; force, *5*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *U S Commission*
 Name and rank of commanding officer, *R Platt*
Lieut Regt Comdr
 Name and position of observer, *Off Cleaveland*
Mate Regt

NOTES RELATING TO STATION NO. 1874

Dredge came up full of
black mud and little
dead grass

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1875*
 Date, *March 19th 1894*
 Time of day, *11.50 AM*, of tide, *Ebb*
 Locality, *Lynnhaven Bay*
 Exact position, *Cape Henry S. H. E. S. E.*
Thimble Shoal N. W.
 Depth, *4 fathoms and 1 ft*
 Nature of bottom, *hard - sticky*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, *SSE* ; distance, *1/8 mile*
 Temperature of air, *79* therm. No.,
 " of surface water, *52* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1014.6* temp., *52*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.06*
 State of sky, *Clear*
 Direction of wind, *SSW* ; 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*
St. L. J. W.
 Name and position of observer, *C. H. Cleveland*
 Master U. S. F. C.

NOTES RELATING TO STATION NO. 1875

a few crabs. 1 small flounder
about a quart of shrimp, and
a few dead sea shells
a little sea grass. Gorgonia
& Bryozoa

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1876*
 Date, *March 19th 1894*
 Time of day, *12 05 PM*, of tide, *Ebb*
 Locality, *Lynham Bay*
 Exact position, *Cape Henry Light S E x E 1/2 E*
Thimble Shoal Light N N x W
 Depth, *5 fath*
 Nature of bottom, *soft & sticky*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, *NE* ; distance, *1/8 mile*
 Temperature of air, *79* therm. No.,
 " of surface water, *52* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1014.6* temp., *52*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.06*
 State of sky, *Clear*
 Direction of wind, *SSW* ; 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, *R Platt*
Lieut USN
 Name and position of observer, *CH Chandler*
 Master USN

NOTES RELATING TO STATION NO. 1876

one young Hake about 6 inches
long - 5 young Flounders
2 crabs - 3 small chace about
2 1/2 inches in length
Three kinds of Flounders

**RECORD OF DREDGING,
TEMPERATURE AND DENSITY.**

Station No. *1877*

Date, *March 28th 1894*

Time of day, *11.18 am*; of tide, *Flood*

Locality, *Chesapeake Bay (mouth)*

Exact position, *Cape Henry Lt. bearing*
S 3/8 E (mag) dist 1 1/2 miles

Depth, *11 fathoms*

Nature of bottom, *Sticky*

Dredging instrument used, *7 ft Beams Trawl*

Direction of drift, *N 1/2 W* ; distance, *1/8 mile*

Temperature of air, *40* therm. No.,

“ of surface water, *47* “

“ at depth of fathoms, “

“ at bottom, “

Density at surface, *1016.0* temp., *47*

“ at depth of fathoms, “

“ at bottom, “

Number of salinometer,

Barometer reading, *30.71*

State of sky, *Clear*

Direction of wind, *ESE* ; force, *3*

Rain,

Direction of surface current, ; force,

“ of bottom “ ; force,

Name of vessel, *Fish Hawk*

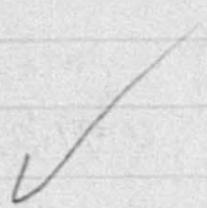
Service to which attached, *U. S. F. Commission*

Name and rank of commanding officer, *R. Platt*
Lieut. U.S.N.

Name and position of observer, *C. H. Cleveland*
Mate U.S.N.

NOTES RELATING TO STATION NO. 1877-

Obtained about one bushel of
yellow dump sponge - 3 Skates
1 2 young Hake averaging
about 6 inches in length.
2 qts of Star fish (small size)
a few spot fish - Shrimps
a few lumps of Coral,
a few Hermit crabs - (Pipe fish
one) a few young sea Robin
and sea bass
1 diminutive Thunder



RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1878*
 Date, *Mar 28 1894*
 Time of day, *11.40 A.M.*; of tide, *Flood*
 Locality, *Chesapeake Bay (mouth)*
 Exact position, *Cape Henry Light bearing*
S 1/2 W (mag) & dist 1 3/4 miles
 Depth, *11 fathoms*
 Nature of bottom, *Sticky*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, *N 1/2 W*; distance, *1/8 mile*
 Temperature of air, *49* therm. No.,
 " of surface water, *47* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1016.0* temp., *47*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.71*
 State of sky, *Clear*
 Direction of wind, *ESE*; 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*
St. Regis
 Name and position of observer, *A. Cleveland*
 Master Regis

NOTES RELATING TO STATION NO. 1878

Obtained about a bushel of
yellow lump sponge. 3 Skates
4 young Hake averaging about
6 inches in length. 2 Hound
1 Spot fish. About 1/2 peck of
small Star fish. 2 Spider Crabs
and a few Hermit Crabs

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1879*
 Date, *March 28th 1894*
 Time of day, *11.55 AM*; of tide, *Flon*
 Locality, *Chesapeake Bay (mouth)*
 Exact position, *Cape Henry Lt. N. bearing*
5 1/2 E (true) dist 1 1/4 miles
 Depth, *11 fathoms and 5 ft*
 Nature of bottom, *hard*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, *N 1/2 W*; distance, *1/8 mile*
 Temperature of air, *46* therm. No.,
 " of surface water, *47* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1016.0* temp., *47*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.71*
 State of sky, *Clear*
 Direction of wind, *ESE*; force, *3*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *USFCS*
 Name and rank of commanding officer, *R Platt*
Dr. sign
 Name and position of observer, *C. H. Cleveland*
 Master sign

NOTES RELATING TO STATION NO. 1879

Obtained $\frac{1}{2}$ bushel of yellow
lump sponge. a number of Pipe
fish - young Hake - young *Trachurus*
& few shrimp & star fish - also
Hermit Crab - 1 Conch

✓

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1880*
 Date, *March 28th 1894*
 Time of day, *12:30 PM*; of tide, *Flood*
 Locality, *Chesapeake Bay*
 Exact position, *Cape Henry Lt Ho bearing*
SE x E 3/4 E (mag), dist 2 1/4 miles
 Depth, *6 fathoms*
 Nature of bottom, *hard*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, *NW*; distance, *1/8 mile*
 Temperature of air, *46* therm. No.,
 " of surface water, *46* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1015.0* temp., *46*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.71*
 State of sky, *Clear*
 Direction of wind, *SE*; 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*
St. Asst Comdr
 Name and position of observer, *C. Cleveland*
Master USN

NOTES RELATING TO STATION NO. 1880

Obtained 3 Skates - a few
young Hake about 6 inches long,
Shrimp, Hermit Crab, Silver Sides
Pipe fish

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1881*
 Date, *Mar 28 - 1894*
 Time of day, *12 50 PM*; of tide, *Flood*
 Locality, *Lynn Haven Bay*
 Exact position *Cape Henry Lt Ho bearing*
E S E 1/4 E dist 3 1/4 miles
 Depth, *4 fathoms and 3 feet*
 Nature of bottom, *hard*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, _____; distance, _____
 Temperature of air, *47* therm. No., _____
 " of surface water, *48* "
 " at depth of _____ fathoms, "
 " at bottom, "
 Density at surface, *1014.6* temp., *48*
 " at depth of _____ fathoms, "
 " at bottom, "
 Number of salinometer, _____
 Barometer reading, *30.68*
 State of sky, *Clear*
 Direction of wind, *E S E*; force, *4*
 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, *R Platt*
Lieut U S N Comdr
 Name and position of observer, *C H Cleveland*
Master U S N

NOTES RELATING TO STATION NO. 1881

Obtained - 2 crabs - 4 lobsters
qt of shrimp - 6 small Hake
a few silver sides - Star fish
1 demersal flounder

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1882*Date, *April 24 - 1894*Time of day, *10:15 a.m.* of tide, *1/2 flood*Locality, *Vicinity Thimble Shoal St. Lower Ches. B. Va*Exact position, *Back River St. Ho to Thimble Shoal St. Ho 17-03**Thimble Shoal St. Ho to Old Pt Comfort St. 49-49*Depth, *6-1*Nature of bottom, *Muddy*Dredging instrument used, *Beam Trawl*

Direction of drift, ; distance,

Temperature of air, *58* 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, *30.12*State of sky, *Clear blue sky*Direction of wind, *N.* ; force, *2*

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, *R Platt**Lieut. USN Commanding*Name and position of observer, *W.C. McHaupt*

NOTES RELATING TO STATION NO. 1882

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1883

Date, Apr. 24 '95

Time of day, 10:45 a.m.; of tide, $\frac{1}{4}$ flood

Locality, Lower Chesapeake Bay

Exact position, Back R. Lt. L. to Thimble Shoal Lt. No 21-53

Thimble Shoal Lt. to Old Pt. Comfort Lt. No 27-52

Depth, 5-7

Nature of bottom, Muddy

Dredging instrument used, Trawl

Direction of drift, ; distance,

Temperature of air, 58 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, 30.14

State of sky,

Direction of wind, NW ; 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, Robt. Platt

Lieut. U.S.N. Comdr.

Name and position of observer, W.C. Wolhaupt

NOTES RELATING TO STATION NO. 1883

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1584*
 Date, *Aug 18 - 1894*
 Time of day, *2 PM*; of tide, *Flood*
 Locality, *Chloro Bank*
 Exact position, *E S E 1/8 S from Sandy Hook*
Lt Ship distance 12 miles
 Depth, *14 fathoms*
 Nature of bottom, *gravel - coarse*
 Dredging instrument used, *7ft Beam Trawl*
 Direction of drift, _____; distance, _____
 Temperature of air, *75* therm. No., _____
 " of surface water, *71 1/2* "
 " at depth of _____ fathoms, "
 " at bottom, "
 Density at surface, *1023.0* temp., *71 1/2*
 " at depth of _____ fathoms, "
 " at bottom, "
 Number of salinometer, *7052*
 Barometer reading, *30.02*
 State of sky, *Cloudy*
 Direction of wind, *SSW*; force, *4*
 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, *Robt Platt*
Lieut. U.S.N. Comdg.
 Name and position of observer, *A. H. Cleveland*
Mate U.S.N.

NOTES RELATING TO STATION NO. 1884

obtained about a basket of material, consisting of gravel dead shells. Pebbles & stones small crabs. 2 live Pectons a few star fish & hermit crabs & Skites Eggs.

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. 1885
 Date, Aug 18th 1894
 Time of day, 2.30 PM, of tide,
 Locality, Cholera Bank
 Exact position, ESE 1/8 S from Sandy Hook
 Lt Ship distance 12 miles
 Depth, 12 1/2 fathoms
 Nature of bottom, gr sand & black specks
 Dredging instrument used, 7ft Beam Trawl
 Direction of drift, ; distance,
 Temperature of air, 75 therm. No.,
 " of surface water, 71 1/2 "
 " at depth of fathoms, "
 " at bottom, 65 "
 Density at surface, 1023 temp., 71 1/2
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, 7052
 Barometer reading, 30.02
 State of sky, Cloudy
 Direction of wind, SSW ; force, 4
 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, Robt Platt
 Lieut. U.S.N. Comdr
 Name and position of observer, C.H. Cleveland
 Mate U.S.N.

NOTES RELATING TO STATION NO. 1885

Obtained about a bushel of material - Consisting of one great Clam shell, yellow sponge, ~~1 small Hake~~, Crabs - 2 Skates a few Star fish, Sand dollars Hermit Crabs, a few small stones, 1 small Hake about 6 inches in length, a few Pipe fish and dead mussel shells, also few Shrimp

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. 1886
 Date, Aug 18th 1894
 Time of day, 2.50 PM of tide,
 Locality, Chelsea Bank
 Exact position, E S E 1/8 S from Sandy Hook
 At ship's distance 12 miles
 Depth, 14 fathoms
 Nature of bottom, gr Sand & gravel
 Dredging instrument used, 7ft Beam Trawl
 Direction of drift, ; distance,
 Temperature of air, 75 therm. No.,
 " of surface water, 71 1/2 "
 " at depth of fathoms, "
 " at bottom, 67 "
 Density at surface, 1023.0 temp., 71 1/2
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, 7052,
 Barometer reading, 30.02
 State of sky, Cloudy
 Direction of wind, SSW ; 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, Robt Platt
 Lieut. U.S.N. Comdr
 Name and position of observer, A. H. Chasland
 Mate U.S.N.

NOTES RELATING TO STATION NO. 1886

Obtained about 3/4 bushel
of material consisting of
Star fish, sand dollars
dead clam shells, 1 flounder
about 1 ft in length - several
Hermit & Spider crabs

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1887*
 Date, *Aug 18th 1894*
 Time of day, *3.25 PM* of tide, *Flood*
 Locality, *Cholera Bank*
 Exact position, *E S E 1/8 S from Sandy Hook*
At ship distance 12 miles
 Depth, *13 1/2 fathoms*
 Nature of bottom, *green & gravel*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, _____ ; distance, _____
 Temperature of air, *75* therm. No., _____
 " of surface water, *71* "
 " at depth of _____ fathoms, "
 " at bottom, *66 1/2* "
 Density at surface, *10.23.0* temp., *71*
 " at depth of _____ fathoms, "
 " at bottom, _____ "
 Number of salinometer, *7052*
 Barometer reading, *30.02*
 State of sky, *Cloudy*
 Direction of wind, *SSW* ; 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, *Robt Platt*
Lieut. U.S.N. Comdr.
 Name and position of observer, *W. Cleveland*
Master U.S.N.

NOTES RELATING TO STATION NO. 1887

Obtained about 2 bushel of material consisting of 3 rocks weighing about 50 lbs each

Trawl was towed a considerable distance, a quantity of star fish were caught - 2 Cunnings, 1 small Flounder - 1 Hake about 6 inches in length - a few Hermit crabs and dead Clam shells

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1888*
 Date, *Aug 23^d 1894*
 Time of day, *11 A M*; of tide, *Ebb*
 Locality, *Long Island Sound*
 Exact position, *Plum Island Pt & Lyna Pt 42° 58'*
Lyna Pt & Comfords Ship 34° 48'
 Depth, *17 1/2 fathoms*
 Nature of bottom, *gr Sand & pebbles*
 Dredging instrument used, *7ft Beam Trawl*
 Direction of drift, _____; distance, _____
 Temperature of air, *69* therm. No., _____
 " of surface water, *70* "
 " at depth of _____ fathoms, "
 " at bottom, *69 1/2* "
 Density at surface, *1022* temp., *70*
 " at depth of _____ fathoms, "
 " at bottom, _____ "
 Number of salinometer, *7052*
 Barometer reading, *30.11*
 State of sky, *Clear*
 Direction of wind, *WSW*; force, *3*
 Rain, _____
 Direction of surface current, _____; force, _____
 " of bottom " _____; force, _____
 Name of vessel, *Fish Hawk*
 Service to which attached, *USF Com*
 Name and rank of commanding officer, *Robt Platt*
Lieut Egn
 Name and position of observer, *Off Cleaveland*
Matte Egn

NOTES RELATING TO STATION NO. 1888

Obtained about $\frac{1}{2}$ bushel of material
consisting of yellow lump sponge
Kelp - Coral. and a few small
crabs, one of the bits to frame
of trawl was broken

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1889*
 Date, *Aug 23rd 1894*
 Time of day, *11.25 AM*, of tide, *Ebb*
 Locality, *Long Island Sound*
 Exact position, *Long beach Bar Pt & Plum Is. 79° 04'*
Plum Island Pt & Lynce Pt. 96° 34'
 Depth, *17 fms*
 Nature of bottom, *Gy S & Pebbles*
 Dredging instrument used, *Sledge*
 Direction of drift, _____ ; distance, _____
 Temperature of air, *69* therm. No., _____
 " of surface water, *70* "
 " at depth of _____ fathoms, "
 " at bottom, "
 Density at surface, *1022.0* temp., *70*
 " at depth of _____ fathoms, "
 " at bottom, "
 Number of salinometer, *7052*
 Barometer reading, *30.11*
 State of sky, *Clear*
 Direction of wind, *W 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, *Robt Platt*
Lieut. U.S.N.
 Name and position of observer, *C.H. Cleveland*
Mate U.S.N.

NOTES RELATING TO STATION NO. 1889

Obtained about 1/2 bushel of material
consisting of kelp - small crabs
and wrinkles - skate eggs
Pebbles - some dollars - coral

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1890*Date, *Aug 23rd 1894*Time of day, *11.40 am*; of tide, *Ebb*Locality, *Long Island Sound*Exact position *Long beach Bow Pt to Plum Pt Lt 77°00'**Plum Pt Lt Lynce Pt Lt 98°47' 20.16"*Depth, *18 fathoms*Nature of bottom, *gr sand & shells*Dredging instrument used, *7 ft Beam Trawl*

Direction of drift, _____; distance, _____

Temperature of air *74* therm. No., _____" of surface water, *70* "

" at depth of _____ fathoms, "

" at bottom, *69 1/2* "Density at surface, *1022* temp., *70*

" at depth of _____ fathoms, "

" at bottom, _____ "

Number of salinometer, *7052*Barometer reading, *30.11*State of sky, *Clear*Direction of wind, *W SW*; force, *3*

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, *Robt Platt**Lieut. U.S.N.*Name and position of observer, *C. H. Cleveland**Master U.S.N.**99-14 R**38-16 L*

NOTES RELATING TO STATION NO. 1890

Obtained about a peck of material
consisting of yellow string sponges
a few skates & flounders - Kelp
1 young scap - Spider crabs
a few young sea robins

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1891*
 Date, *Aug 23^d 1894*
 Time of day, *12 Noon* ; of tide, *ebb*
 Locality, *Long Island Sound*
 Exact position, *Long beach Bar Lt Plum Isl S 77° 00'*
Plum Isl Lt Haynes Pt Lt 98° 47'
 Depth, *18 fathoms*
 Nature of bottom, *gr Sand & shells*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, _____ ; distance, _____
 Temperature of air, *74* therm. No., _____
 " of surface water, *70* "
 " at depth of _____ fathoms, "
 " at bottom, *69* "
 Density at surface, *1022.0* temp., *70*
 " at depth of _____ fathoms, "
 " at bottom, _____
 Number of salinometer, *7052*
 Barometer reading, *30.11*
 State of sky, *Clear*
 Direction of wind, *W SW* ; 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, *Robt Platt*
Lieut. U.S.N.
 Name and position of observer, *C. H. Cleveland*
Master U.S.N.

NOTES RELATING TO STATION NO. 1891

Obtained about 1/2 bushel of material. Consisting of yellow sponge - a few small squid small star fish - dead mussel shells - Spider Crabs - young Skup 1 Butter fish - Skate eggs Humble Crabs.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1892

Date, Aug 23 1894

Time of day, 12.20 PM; of tide, Flood

Locality, Long Isd Sound

Exact position, Long beach Berth & Plum Id 76° 21'

Plum Id Pt & Hyman Pt Id 102° 02'

Depth, 19 1/2 fathoms

Nature of bottom, gr sand & shells

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 75 therm. No.,

" of surface water, 70 "

" at depth of fathoms, "

" at bottom, 69 1/2 "

Density at surface, 1022.6 temp., 70

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7052

Barometer reading, 30.11

State of sky, Clear

Direction of wind, N SW ; 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, Robt Platt

Lt U.S.N.

Name and position of observer, Ch Cleveland

Mate U.S.N.

NOTES RELATING TO STATION NO. 1892

Obtained about 1/2 bushel of material, consisting of small squid, spider crabs, yellow finger sponge. Trawl was torn and some of material lost

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1893*
 Date, *Aug 23^d 1894*
 Time of day, *1.35 PM* of tide, *Flood*
 Locality, *Long Island Sound*
 Exact position, *Plumb Line between Lt 54^o 50'*
between Lt 54^o 50' & 51^o 00' Lt 78^o 15'
 Depth, *38 fathoms*
 Nature of bottom, *gr Sand & blk specks*
 Dredging instrument used, *Dredge*
 Direction of drift, _____ ; distance, _____
 Temperature of air, *80* therm. No., _____
 " of surface water, *69* "
 " at depth of _____ fathoms, "
 " at bottom, *70* "
 Density at surface, *1022* temp., *69*
 " at depth of _____ fathoms, "
 " at bottom, _____ "
 Number of salinometer, *7052*
 Barometer reading, *30.11*
 State of sky, *Clear*
 Direction of wind, *W S W* ; force, *3*
 Rain, _____
 Direction of surface current, _____ ; force, _____
 " of bottom " _____ ; force, _____
 Name of vessel, *Fish Hawk*
 Service to which attached, *USN*
 Name and rank of commanding officer, *Robt Platt*
Lt USN
 Name and position of observer, *Ch Charles*
Matw USN

NOTES RELATING TO STATION NO. 1893

obtained about a bushel of
sand and gravel, a few
sand dollars & shells

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1894*
 Date, *Aug 23rd 1894*
 Time of day, *1:50 PM*; of tide, *Flood*
 Locality, *Long Island Sound*
 Exact position, *Plum Gut Beacon Lt. S. 42° 45'*
Plum Island Lt. N. 86° 00'
 Depth, *53 fathoms*
 Nature of bottom, *ml. or clay*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, *West*; distance, *about 1/2 mile*
 Temperature of air, *78* therm. No.,
 " of surface water, *69* "
 " at depth of fathoms, "
 " at bottom, *67'* "
 Density at surface, *1022.0* temp., *69*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7052*
 Barometer reading, *30.10*
 State of sky, *Clear*
 Direction of wind, *West*; force, *3*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *U.S. Fish Com.*
 Name and rank of commanding officer, *Robt Platt*
Lieut. U.S.N.
 Name and position of observer, *C. H. Cleveland*
Master U.S.N.

NOTES RELATING TO STATION NO. 1894

Obtained about one bushel of
material consisting of crabs
Skates - Filandera - Hake
Sea Robin - Winkles - Squid

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. 1895
 Date, Aug 23rd 1894
 Time of day, 2,30 PM ; of tide, Flood
 Locality, Long Island Sound
 Exact position, Plum Island London Lt 48° 20'
 New London to Jaybrook Lt 74, 55°
 Depth, 22 fathoms
 Nature of bottom, gr sand & pebbles
 Dredging instrument used, 7 ft Beam Trawl
 Direction of drift, ; distance,
 Temperature of air, 78 therm. No.,
 " of surface water, 69 "
 " at depth of fathoms, "
 " at bottom, 70 "
 Density at surface, 1022.0 temp., 69
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, 7052
 Barometer reading, 30.10
 State of sky, Clear
 Direction of wind, West ; force, 3
 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, Robt Platt
 Lieut U.S.N.
 Name and position of observer, C.H. Cleveland
 Mace U.S.N.

NOTES RELATING TO STATION NO. 1895

Obtained about 1/2 bushel of
material consisting of crabs
Conchs - Trinkles Flounders
Skates - Shells - Sand dollars
Hermit crabs

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1896*
 Date, *Aug 23" 1894*
 Time of day, *3 PM* ; of tide, *High*
 Locality, *Long Island Sound*
 Exact position, *Plum Point Light 20° 26'*
Little Neck Pt Lynow Pt 109° 35'
 Depth, *19 fathoms*
 Nature of bottom, *gr sand & blk specks*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, _____ ; distance, _____
 Temperature of air, *79* therm. No., _____
 " of surface water, *69* " *69*
 " at depth of _____ fathoms, " _____
 " at bottom, *69* " _____
 Density at surface, *1022* temp., *69*
 " at depth of _____ fathoms, " _____
 " at bottom, " _____
 Number of salinometer, *7052*
 Barometer reading, *3010*
 State of sky, *Clear*
 Direction of wind, *West* ; force, *3*
 Rain, _____
 Direction of surface current, _____ ; force, _____
 " of bottom " _____ ; force, _____
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U.S. Commission*
 Name and rank of commanding officer, *Robt Platt*
Lieut. Jnr
 Name and position of observer, *W. H. Cleveland*
mate Jnr

NOTES RELATING TO STATION NO. 1896

obtained about 1/2 bushel of
material consisting of Skates
Hundred - Dead Shells - crabs

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1897*
 Date, *Aug 23rd 1894*
 Time of day, *3.15 PM*; of tide, *Flood*
 Locality, *Long Island Sound*
 Exact position, *Gardiner Pt Plum 23° 43'*
Plum I & Lynce Pt 105° 03'
 Depth, *19 fathoms and 4 ft*
 Nature of bottom, *chord*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, _____; distance, _____
 Temperature of air, *79* therm. No., _____
 " of surface water, *69* " *69*
 " at depth of _____ fathoms, " _____
 " at bottom, *79* " _____
 Density at surface, *1022* temp., *69*
 " at depth of _____ fathoms, " _____
 " at bottom, " _____
 Number of salinometer, *7052*
 Barometer reading, *30.10*
 State of sky, *Clear*
 Direction of wind, *West*; force, *4*
 Rain, _____
 Direction of surface current, _____; force, _____
 " of bottom " _____; force, _____
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U.S. Fish Com.*
 Name and rank of commanding officer, *Robt Platt*
St. Lieut
 Name and position of observer, *Off Clearman*
Master
R. F. ...

NOTES RELATING TO STATION NO. 1897

Obtained about $\frac{1}{2}$ bushel of
material. Consisting of small
Hundred Squid Eggs - Sea
shells - yellow string sponges
Trawl got caught, supposed
Rock

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1898*
 Date, *Aug 23rd 1894*
 Time of day, *3.30 PM*; of tide, *Flood*
 Locality, *Long Island Sound*
 Exact position, *Gardner Is to Plum I 23° 00'*
Plum Island to Lynde Pt 109° 25'
 Depth, *19 fathoms*
 Nature of bottom, *hard*
 Dredging instrument used, *7ft Beam Trawl*
 Direction of drift, _____; distance, _____
 Temperature of air, *79* therm. No., _____
 " of surface water, *69* "
 " at depth of _____ fathoms, "
 " at bottom, "
 Density at surface, *1022* temp., *69*
 " at depth of _____ fathoms, "
 " at bottom, "
 Number of salinometer, *7052*
 Barometer reading, *3010*
 State of sky, *Clear*
 Direction of wind, *N*; 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, *Robt Pluce*
Lt U.S.N.
 Name and position of observer, *Ch Cleveland*
Master U.S.N.

NOTES RELATING TO STATION NO. 1898

Obtained about $\frac{1}{2}$ basket of
material consisting of Skates
crabs dead shells - yellow
thing sponge - Hermit crabs