

1849 to 1898

July 10-93 to Aug 23<sup>rd</sup> 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 Horns Land  
 Exact position, Gay Head S 40° W 1/2 E 9 miles  
Cullyhunk 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, SSE; distance, 1/4 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, with; 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,  
Indenighton  
Master

NOTES RELATING TO STATION NO. 1849

Hake Flounders  
Whiting's Sand Dollars  
Skate

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1850  
 Date, July 10. 1893  
 Time of day, 10.34<sup>a</sup> : of tide, Flood  
 Locality, 4 1/2 miles S of No mans Land  
 Exact position, Guy head S-N 40<sup>o</sup> E 10 1/2 miles  
Sallybank S-N 40<sup>o</sup> 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, North ; 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, Wm. H. Mather

NOTES RELATING TO STATION NO. 1850

Lake Skate Flounders  
Hermit Crabs. Land Dollars

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1851*  
 Date, *July 10. 1893*  
 Time of day, *10.58 AM* : of tide. *Flood*  
 Locality, *4 1/2 miles SSW of Inmane Sand*  
 Exact position, *Gay head S to No N 7/8 E 10 1/4 miles*  
*cuttyhunk S to No N 3/4 W 15 miles*  
 Depth, *15 fms 3 ft*  
 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, *1.02412* temp.,  
     " at depth of fathoms, ..  
     " at bottom, ..  
 Number of salinometer,  
 Barometer reading, *30.19*  
 State of sky, *Clear*  
 Direction of wind, *North* ; 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 Lighthouse*  
*Whateley*

NOTES RELATING TO STATION NO. 1851

Sea Anemone Flounders Snake  
Sand dollars Star fish 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, \_\_\_\_\_  
 Exact position, Gay head S 1/2 W N 2 1/2 E 10 miles  
Castly head S 1/2 W N 1/2 W 14 1/2 miles  
 Depth, 13 fms 320  
 Nature of bottom, Hard  
 Dredging instrument used, Beam Trawl  
 Direction of drift, SE ; 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, North ; 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 Peck  
Lieut USN  
 Name and position of observer, \_\_\_\_\_  
Pauline  
Matilda



NOTES RELATING TO STATION NO. 1852

Skate Hake Flounders  
and dollars worms trace

## RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1853*  
 Date, *July 10 1893*  
 Time of day, *1:10 P.M.* ; of tide, *Flood*  
 Locality, *Block Island Sound*  
 Exact position, *Ledgehead Lt 1 1/2 N 8 1/4 N 5 3/8 mile*  
*Castletank Lt 1 3/8 N 9 miles*  
 Depth, *15 fms*  
 Nature of bottom, *Mud*  
 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, *1.02412* temp.,  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer,  
 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, *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. Johnston*  
*Master U.S.N.*

NOTES RELATING TO STATION NO. 1853

Sculpin Wake Whiting flounder  
starfish lemmings

## RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1854*  
 Date, *July 11 1895*  
 Time of day, *1.40 P.M.*; of tide, *Flood*  
 Locality, *Block Island Sound*  
 Exact position, *Gayheads Shoals N 8 E 1/2 E 5 3/8 miles*  
*South, head of Shoals N 1/2 E 7 1/4 miles*  
 Depth, *17 fms*  
 Nature of bottom, *Muddy*  
 Dredging instrument used, *Beam Trawl*  
 Direction of drift, *N E* ; 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, *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, Capt*  
*Lieut. U.S.N.*  
 Name and position of observer, *John L. ...*  
*Master U.S.N.*

NOTES RELATING TO STATION NO. 1854

Starfish Flounders <sup>4</sup> ~~Wake~~  
Hermit Crabs

# RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. *1855*  
 Date, *July 10<sup>th</sup> 1893*  
 Time of day, *2:40 Pm*; of tide, *Flot*  
 Locality, *Block Isd Sound*  
 Exact position, *Gybee So No EX N 1/4 N 3 1/2 miles*  
*Cently bank So No N X 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.F.C.*  
 Name and rank of commanding officer, *Robert Platt*  
*Lieut - U.S.N.*  
 Name and position of observer, *Frederick*  
*Tracy*

NOTES RELATING TO STATION NO. 1855

Starfish Flounder Skate  
Sea Raven Hermit Crab  
Winkles 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 St No SSW 2 1/8 miles*  
*cuttyhunk St No N W 4 1/2 or 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, *1.024* 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. Fish Hawk*  
 Service to which attached, *U.S. Fish Hawk*  
 Name and rank of commanding officer, *Robert Scott*  
*Lieut 26 USN*  
 Name and position of observer,  
*Montgomery*  
*26 USN*



NOTES RELATING TO STATION NO. 1856

Starfish Sea Urchins  
Skate Water Sand  
Gullweed 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, *Weymouth Sound*  
 Exact position, *By head of the Str & W 7/8 W 2 1/2 miles  
 South by head of the Str & W 7/8 W 6 1/2 a*  
 Depth, *13 fms*  
 Nature of bottom, *Hard*  
 Dredging instrument used, *Beam Trawl*  
 Direction of drift, *N & 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 & 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, *J. M. ...  
 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 P.M.*; of tide, *Flood*  
 Locality, *Vineyard Sound*  
 Exact position, *Gayhead Lt. No 5 1/2 W 7/8 N 3 miles*  
*South of Lt. No 5 1/2 W 1/4 N 5 5/8 miles*  
 Depth, *14 fms 2 ft*  
 Nature of bottom, *Hard*  
 Dredging instrument used, *Beam Trawl*  
 Direction of drift, *S 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, *1.024* temp.,  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer,  
 Barometer reading, *30.29*  
 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,  
*Lyons*  
*1st Lt. U.S.N.*

NOTES RELATING TO STATION NO. 1858

Starfish Skate Hake  
Whiting Pectins Sea urchin  
Flounders, Hermit Crab  
Sand Dollars Shell & fragments

## 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 Sitka E 3 E S 1/2 miles*  
*and Sitka to N 45 W 1/4 or 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. 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, *William  
Mason*

NOTES RELATING TO STATION NO. 1859

Horns shell Spider Crabs  
Rock Crab black mud

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1860*  
 Date, *July 12<sup>th</sup> 1893*  
 Time of day, *9.40* ; of tide, *Flood*  
 Locality, *Buzzard Bay*  
 Exact position, *Norfolk Co No 88 1/2 E 5 1/2 miles*  
*River Side Co No 4 1/2 E 7 1/2 miles*  
 Depth, *8 fms 3 ft*  
 Nature of bottom, *Sticks*  
 Dredging instrument used, *Beam Trawl*  
 Direction of drift, *NE* ; distance, *1/4 mile*  
 Temperature of air, *69* therm. No.,  
 " of surface water, *65* "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *1023.2* 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. Fish Hawk*  
 Service to which attached, *U.S. Fish Hawk*  
 Name and rank of commanding officer, *Robert Platt*  
*Lieut. U.S.N.*  
 Name and position of observer,  
*J. M. L. ...*  
*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, *Eastport Harbor Me*  
 Exact position, *Friars Head S 100° 1/4 W 1 1/16 miles*  
*Centre Harbors S 100° 1/2 W 1 3/4 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, *51* " \_\_\_\_\_  
 " 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, *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. Lighton*  
*Master*

NOTES RELATING TO STATION NO. 1861

1 star fish & Skulpin sponge  
Tunicates (Balanus).  
Polychaetes, (Pentacta)  
Star fishes (Asterias & Crinella  
etc.) 2 Sculpins and  
one Ophidian, Trachurus  
in Murre, 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, *Eastern harbor*  
 Exact position, *Finns Head SSW 3/4 W 1 1/8 miles*  
*Leake's Narrows 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, *29.90*  
 State of sky, *Cloudy & rainy*  
 Direction of wind, *SSW* ; 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*  
*Supt. 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

little star fish, Barnacles,

shrimps, 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 S of N of*  
*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*  
*Captain U.S.N.*  
 Name and position of observer,  
     *John W. ...*  
     *Master ...*

NOTES RELATING TO STATION NO. 1863

Many fish star fish mud  
One large basket star fish

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1864*  
 Date, *Sept 23<sup>d</sup> 1893*  
 Time of day, *10, 36 am* ; of tide,  
 Locality *Mouth of Chesapeake Bay*  
 Exact position, *Thimble Shoar W. 11 7/8 miles*  
*Cape Henry S 1/4 S 7/8 E 1/2 miles*  
 Depth, *11, 3*  
 Nature of bottom, *Sand*  
 Dredging instrument used, *Beam Trawl*  
 Direction of drift, *E x S* ; distance, *1/2 mile*  
 Temperature of air, *79* therm. No.,  
     " of surface water, *75* "  
     " at depth of fathoms, "  
     " at bottom, "  
 Density at surface, *1.014* temp.,  
     " at depth of fathoms, "  
     " at bottom, "  
 Number of salinometer,  
 Barometer reading, *29.97*  
 State of sky, *b, c, c, s*  
 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. Fish*  
 Name and rank of commanding officer, *Robert Hall*  
*Lieut. U.S.N.*  
 Name and position of observer,  
     *John H. ...*  
     *mate of ...*



NOTES RELATING TO STATION NO. 1164

Squid Short fin mackerel  
Crabs Kingfish  
Crabs Skate eggs Spiders  
Crabs Kingfish

## RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1865*  
 Date, *September 23 1893*  
 Time of day, *10:30 AM*; of tide, *ebb*  
 Locality, *Mount Coker Bay*  
 Exact position, *Thimble Shoar Pt N 12 1/2 miles*  
*Cape Henry S 1/4 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, *1.023.6* temp.,  
     " at depth of fathoms, "  
     " at bottom, "  
 Number of salinometer,  
 Barometer reading, *29.96*  
 State of sky, *b, c, s*  
 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, *Wm. M. Mather*

NOTES RELATING TO STATION NO. 1868

1 Squilla squid Starfish Trout  
Croakers 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, *11:55 am*; of tide, *ebb*  
 Locality, *Cape Henry Bay*  
 Exact position, *Pointe SE 1/4 NW 1/4 SW 1/4 NW 1/4 miles*  
*Cape Henry SE 1/4 SW 1/4 NW 1/4 miles*  
 Depth, *10*  
 Nature of bottom, *fine sand*  
 Dredging instrument used, *Beam Trawl*  
 Direction of drift, *E x S*; distance, *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, *10,132*  
 Barometer reading, *29.96*  
 State of sky, *bclear*  
 Direction of wind, *East*; force, *1*  
 Rain.  
 Direction of surface current, ; force,  
     " of bottom " ; force,  
 Name of vessel, *U.S. Fish Hawk*  
 Service to which attached, *U.S. Fish Hawk*  
 Name and rank of commanding officer, *Robert Platt*  
*Lieut. U.S.N.*  
 Name and position of observer,  
*Johnston*  
*Watson*

NOTES RELATING TO STATION NO. 1866.

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

## RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1867*  
 Date, *September 23<sup>rd</sup> 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, *Sand*  
 Dredging instrument used, *Beam Trawl*  
 Direction of drift, *E 1 S*; distance, *1/4 miles*  
 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, *SE*; 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. Fl.*  
 Name and rank of commanding officer, *Robert Platt*  
     *Lieut. U.S.N.*  
 Name and position of observer,  
     *Quincy*  
     *Master U.S.N.*

NOTES RELATING TO STATION NO. 1867

Small Croakers Hog chokers  
Shrimp whiting. Green blue fish  
squid short in number  
Star fish skate type  
Spring brime crabs

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 560  
 Date, September 23<sup>rd</sup> 1893  
 Time of day, 12.06 P.M.; of tide, ebb  
 Locality, North Chesapeake Bay  
 Exact position, Triangle S. 40° W. 1/2 M. 1/2 W. 1/2 miles  
Cape Henry S. 40° W. 3/4 W. 2 1/2 miles  
 Depth, 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, 1.0156 temp.,  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer,  
 Barometer reading, 29.95  
 State of sky, b, c, s  
 Direction of wind, SE; force, 2  
 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, Robert Platt  
Lieut. U.S.N.  
 Name and position of observer,  
J. M. Smith  
Master U.S.N.



NOTES RELATING TO STATION NO. 1868

A few Anabene Trout  
Small minnows + Anabene  
Sturgeon Eggs

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. 1869  
 Date, September 25<sup>th</sup> 1893  
 Time of day, 11.40 : of tide.  
 Locality, Chesapeake Bay  
 Exact position, Cherrystone Lt NE 4 1/2 N 7 1/8 m  
 Old Plantation Lt W 5 3/4 S 1 7/8 miles  
 Depth, 21 fathoms  
 Nature of bottom, shells + coral  
 Dredging instrument used, Beam Trawl  
 Direction of drift, South ; 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, 1.018. temp., 74  
 " at depth of fathoms, " "  
 " at bottom, " "  
 Number of salinometer, 7049  
 Barometer reading, 30.06  
 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. Fish Com. Steamer  
 Service to which attached, U.S. Fish Com.  
 Name and rank of commanding officer, Robert H. Allen  
 Name and position of observer, J. M. Smith

NOTES RELATING TO STATION NO. 1869.

A quantity of Coral  
Crabs - *Stomatopoda*  
*Gygonia* - Squid  
Scallop Shells covered with  
coral, a few small *Stomatopoda*  
and July Fish, yellow lump  
sponge

## RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1878*  
 Date, *Sept 25 1893*  
 Time of day, *12 noon*; of tide,  
 Locality, *Chesapeake Bay*  
 Exact position, *Cherrytone Lt N E 1/4 N 1 3/8 miles*  
*Old Plantation Lt N S E 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. Steamer 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, *A. H. Cleverland*  
*Master U.S.N.*

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 time 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 Lt H. Tr x N 3/4 N*  
*3 1/4 miles*  
*Tricomio Lt H. SW x W 7 miles*  
 Depth, *7 fathoms and 2 ft*  
 Nature of bottom, *hard*  
 Dredging instrument used, *Beam Trawl*  
 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, *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, *USN*  
 Name and rank of commanding officer, *R. Platt*  
*Lieut. Jnr*  
 Name and position of observer, *Ch. Chamberlain*  
*Master Jnr*

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 19<sup>th</sup> 1893

Time of day, 12.05 PM, of tide, Ebb

Locality, Chesapeake Bay

Exact position, Smiths Pt Ct to W x N 3/4 N  
3 1/4 miles  
vicinity Ct to S W x W 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, 1.0140 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.F.C.

Name and position of observer, A. C. Cleveland

Lieut. U.S.F.C.



NOTES RELATING TO STATION NO. 1872

Obtained one Oyster 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<sup>th</sup> 1893*Time of day, *12.20 PM*: of tide, *Ebb*Locality, *Chesapeake Bay*Exact position, *Smiths Pt St Hs NW x N 7/8 W**3 miles*  
*Wicomico St Hs SW x W 1/8 W 7 1/2 miles*Depth, *10 fathoms*Nature of bottom, *Sticks*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**Lieut USN Comdr*  
Name and position of observer, *Ch Cleveland*

NOTES RELATING TO STATION NO. 1873

Obtained  $\frac{1}{2}$  bushel 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<sup>th</sup> 1893

Time of day, 12:45 P.M. of tide, Flood

Locality, Chesapeake Bay miles

Exact position, Smiths Pt Sts NW 2 1/8

Wicomico Sts SW 1/2 W 7 1/16 miles

Depth, 15 faths

Nature of bottom, Sticky

Dredging instrument used, Oyst. 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, NW E ; force, 5

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, R. Platt

Lieut. Regt. Comdr.

Name and position of observer, W. C. Cleveland

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 19* 1894

Time of day, *11:50 AM*, of tide, *Ebb*

Locality, *Lynn Haven Bay*

Exact position, *Cape Henry S. H. S. E. S. E.*

*Humble Shoal N. W.*

Depth, *4 fathoms and 1 ft.*

Nature of bottom, *hard - sticky*

Dredging instrument used, *7 ft Beam Trawl*

Direction of drift, *S S E* ; 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, *S 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*

*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 19<sup>th</sup> 1894*Time of day, *12 05 PM*, of tide, *Ebb*Locality, *Lynham Bay*Exact position, *Cape Henry Light S E 1/4 E 1/2 E**Thimble Shoal Light N N W 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, *SE W* ; 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, *R Platt**Lieut. U.S.N.*Name and position of observer, *A. H. Chandler**Master U.S.N.*



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 28<sup>th</sup> 1894  
 Time of day, 11.18 am; of tide, Flood  
 Locality, Chesapeake Bay (mouth)  
 Exact position, Cape Henry Lt. bearing  
 S 3/8 E (true) 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 clump 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, *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*  
*Ct. U.S.N.*  
 Name and position of observer, *A. H. Cleveland*  
*Master U.S.N.*

NOTES RELATING TO STATION NO. 1876

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, *Oct 28 1894*Time of day, *11.55 AM*: of tide, *Flood*Locality, *Chesapeake Bay (mouth)*Exact position, *Cape Henry Lt. A. 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, *Ch 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 Scardus  
a few shrimp & star fish. also  
Hermit Crab - 1 Conch

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1880*  
 Date, *March 28<sup>th</sup> 1894*  
 Time of day, *12:30 PM*; of tide, *Flood*  
 Locality, *Chesapeake Bay*  
 Exact position, *Cape Henry Et H<sup>o</sup> 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, *1/2 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, *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 Comdr*  
 Name and position of observer, *Chas. C. ...*  
*Master*



NOTES RELATING TO STATION NO. 1850

Obtained 3 Skates a few  
young Hake about 6 inches long,  
Shrimps, Hermit Crabs, 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 5 E 1/4 E dist 3 1/4 miles*  
 Depth, *4 fathoms and 3 feet*  
 Nature of bottom, *chord*  
 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, *ESE* ; force, *4*  
 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, *R Platt*  
*Lieut U.S.N. Comdr*  
 Name and position of observer, *C.H. Townsend*  
*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 am* of tide, *1/2 Flood*  
 Locality, *Vicinity Thimble Shoal St. Louis-Char B, Va*  
 Exact position, *Back River St. Ho to Thimble Shoal Sta 17-03*  
*Thimble Shoal Sta to Old Pt Comfort Sta. 49-00*  
 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, *30.17*  
 State of sky, *Clear Blue Sky*  
 Direction of wind, *N.* ; force, *7*  
 Rain, \_\_\_\_\_  
 Direction of surface current, \_\_\_\_\_ : force, \_\_\_\_\_  
 " of bottom " : force, \_\_\_\_\_  
 Name of vessel, *Fish Hawk*  
 Service to which attached, *USN, Commission*  
 Name and rank of commanding officer, *R Platt*  
*Lieut USN Commanding*  
 Name and position of observer, *W C McChapman*

NOTES RELATING TO STATION NO. 1882

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1883*Date, *Apr. 21 92*Time of day, *10:45 a.m.* of tide, *High*Locality, *Lower Chesapeake Bay*Exact position, *Beck's R. N. L. to Thimble Shoal Lt Ho 21-53**Thimble Shoal Lt ho. to Old Pt. Comfort Lt. Ho 27-52*Depth, *5-7*Nature of bottom, *Muddy*Dredging instrument used, *Trawl*

Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_

Temperature of air, *59* 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, *30.1*

State of 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.C.*Name and rank of commanding officer, *Robt Platt**Lieut. U.S.N. Comdr*Name and position of observer, *W.C. Walcott*

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, *Chalera Bank*  
 Exact position, *E S E 1/8 S from Sandy Hook*  
*Et 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. Comdr.*  
 Name and position of observer, *A. H. Cleveland*  
*Mate U.S.N.*



NOTES RELATING TO STATION NO. 1884 -

obtained about a bushel of material, - consisting of gravel dead shells - pebbles & stones small crabs - 2 live Pectons a few star fish & hermit crabs & Skates Eggs -

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1885*  
 Date, *Aug 18<sup>th</sup> 1894*  
 Time of day, *2.30 PM* of tide.  
 Locality, *Cholera Bank*  
 Exact position, *E S E 1/8 S from Sandy Hook*  
*At ship distance 12 miles*  
 Depth, *12 1/2 fathoms*  
 Nature of bottom, *gr sand & black specks*  
 Dredging instrument used, *7 ft 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, *1.023* 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, *C. H. Cleveland*  
*Platt 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 Shrymp

RECORD OF DREDGING,  
TEMPERATURE AND DENSITY.

Station No. *1886*  
 Date, *Aug 18<sup>th</sup> 1894*  
 Time of day, *2.50 PM* of tide,  
 Locality, *Chelsea Banks*  
 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 Cleveland*  
*Master 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 18<sup>th</sup> 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 mud*  
 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, *1.023.0* 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. Fish Com.*  
 Name and rank of commanding officer, *Robt Platt*  
*Lieut. U.S.N. Comdr.*  
 Name and position of observer, *A. H. Cleaveland*  
*Master*

NOTES RELATING TO STATION NO. 1887

Obtained about 2 bushels of  
Material consisting of 3 rocks  
weighing about 50 lbs. each

Trawl over turn a considerable  
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<sup>d</sup> 1894*  
 Time of day, *11 A M*; of tide, *Ebb*  
 Locality, *Long Island Sound*  
 Exact position, *Plum Island Pt to Lyna Pt 99° 55'*  
*Lyna Pt to 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, *Clem*  
 Direction of wind, *WSW*; force, *3*  
 Rain, \_\_\_\_\_  
 Direction of surface current, \_\_\_\_\_; force, \_\_\_\_\_  
 " of bottom " " ; force, \_\_\_\_\_  
 Name of vessel, *Fish Hawk*  
 Service to which attached, *U S S Com*  
 Name and rank of commanding officer, *Robt Platt*  
*Lieut. Egn*  
 Name and position of observer, *Ch Cleveland*  
*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 of frame  
of Trawl was broken

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1889*  
 Date, *Aug 23<sup>rd</sup> 1894*  
 Time of day, *11.25 AM* of tide, *Ebb*  
 Locality, *Long Island Sound*  
 Exact position, *Long beach Bar St to Plum Islet 79°04'*  
*Plum Island St to Lynce Pt St 96°34'*  
 Depth, *17 fms*  
 Nature of bottom, *gy S & Pbbles*  
 Dredging instrument used, *Sudge*  
 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 SW* ; 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*  
*Master 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 - sand dollars - coral

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1890*  
 Date, *Aug 23<sup>rd</sup> 1894*  
 Time of day, *11.40 am* : of tide, *Ebb*  
 Locality, *Long Island Sound*  
 Exact position *Long beach Bay Lt to Plum Pt Lt 77<sup>o</sup> 00'*  
*Plum Pt Lt to Lynce Pt Lt 98<sup>o</sup> 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 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. Fish Com.*  
 Name and rank of commanding officer, *Rich. Platt*  
*Lieut. U.S.N.*  
 Name and position of observer, *Chas. B. ...*  
*Master U.S.N.*

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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 crab  
& few young sea robins

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1891*  
 Date, *Aug 23 1894*  
 Time of day, *12 Noon* : of tide. *ebb*  
 Locality, *Long Island Sound*  
 Exact position, *Long beach Bar Lt to Pt. Isl. S. 77° 00'*  
*Clear Isl. Lt. Haystack 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, *2052*  
 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  
Hermit 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 Beach Pt & Plum Pt Lt 76° 21'*  
*Plum Pt & Thynne Pt Lt 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, *3011*  
 State of sky, *Clear*  
 Direction of wind, *W 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, *Ph. P. [unclear]*  
*St. [unclear]*  
 Name and position of observer, *Ch. Cleveland*  
*Master [unclear]*



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 - 1894*  
 Time of day, *1.35 PM* of tide, *Flood*  
 Locality, *Rough Island Sound*  
 Exact position, *Plumb Line station Lt 54° 50'*  
*North on Taylorbrook Lt 78° 15'*  
 Depth, *38 fathoms*  
 Nature of bottom, *gr sand with 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, *USFC*  
 Name and rank of commanding officer, *Robt Platt*  
*Lt USN*  
 Name and position of observer, *Chas. M. ...*  
*Master USN*

NOTES RELATING TO STATION NO. 1873

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

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1894*  
 Date, *Aug 23<sup>rd</sup> 1894*  
 Time of day, *1.50 PM*; of tide, *Flood*  
 Locality, *Long Island Sound*  
 Exact position, *Plum Gut Beacon to P. S. 42, 45*  
*Plum Island to the North London Lm 26° 00'*  
 Depth, *53 fathoms*  
 Nature of bottom, *mls or clay*  
 Dredging instrument used, *7 ft Beam Trawl*  
 Direction of drift, *West*; distance, *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, *USC*  
 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. 1894

Obtained about one basket of  
material consisting of crabs  
Skates - Filanderus - Hake  
Sea Robin - Winkles - Squid

# RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. *1895*  
 Date, *Aug 23<sup>rd</sup> 1894*  
 Time of day, *2,30 PM*; of tide, *Flood*  
 Locality, *Long Island Sound*  
 Exact position, *Plain Neck London Lt 48° 20'*  
*New London to Jaybrook Lt 74, 5-5°*  
 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*  
*Master U.S.N.*

NOTES RELATING TO STATION NO. 1895

Obtained about  $\frac{1}{2}$  bushel of  
material consisting of crabs  
Conchs - Winkles - Flounders  
Skates - Shells - Sand dollars  
Hermit crabs

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

Station No. *1896*

Date, *Aug 23* 189*4*

Time of day, *3 PM* ; of tide, *A low*

Locality, *Long Sands Sound*

Exact position, *Plum Point Light  $20^{\circ} 26'$   
Ledge Light to Lynon Pt  $109^{\circ} 35'$*

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* “ \_\_\_\_\_

“ 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*  
*Capt USN*

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



NOTES RELATING TO STATION NO. 1896

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

# RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. *1897*  
 Date, *Aug 23<sup>rd</sup> 1894*  
 Time of day, *3.15 PM*; of tide, *Flood*  
 Locality, *Long Island Sound*  
 Exact position, *Gardner Pt Plum I 23° 43'*  
*Plum I to Lynce Pt 108° 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* " \_\_\_\_\_  
 " 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. F.C.*  
 Name and rank of commanding officer, *Robt Platt*  
*St. Lieut*  
 Name and position of observer, *Off Clearland*  
*Master (U.S.N.)*

NOTES RELATING TO STATION NO. 1897

obtained about 1/2 bushel of  
material. Consisting of small  
Flounders - Squid Eggs - Seab  
shells - yellow string sponges  
Teal got caught, supposed  
Rock

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1898  
 Date, Aug 23<sup>rd</sup> 1894  
 Time of day, 3.30 PM; of tide, Flood  
 Locality, Long Island Sound  
 Exact position, Gardner's Pt 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, W; 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  
Lt U.S.N.  
 Name and position of observer, Chas Cleveland  
Master U.S.N.

NOTES RELATING TO STATION NO. 1898

Obtained about 1/2 bushel of  
material consisting of Skates  
crabs dead shells - yellow  
string sponges Hermit crabs