

1893 1824
1848

ORIGINAL LOG BOOK OF THE "FISH HAWK"
UNITED STATES FISH COMMISSION
STATION NUMBERS
Numbers 1829 to 1848

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1829*
 Date, *April 16 1882*
 Time of day, *2, 25 PM* of tide, *Flood*
 Locality, *Woods Hole Bay*
 Exact position,
North of Comfort SE 1/4 E 3/4 E 2 miles
 Depth, *2 fms. 14 ft*
 Nature of bottom, *Sofe*
 Dredging instrument used, *Agate dredge*
 Direction of drift, *North* : distance, *1/2 mile*
 Temperature of air, *54* therm. No.,
 " of surface water, "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1016.4* temp., *52*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.24*
 State of sky, *Clear*
 Direction of wind, *North* ; force, *3*
 Rain,
 Direction of surface current, : force,
 " of bottom " : force,
 Name of vessel, *U S Ste Fish Hawk*
 Service to which attached, *U S F C*
 Name and rank of commanding officer, *Robert Platt*
 Lieut - U S A
 Name and position of observer,
 J. M. Lightton
 Master U S A

NOTES RELATING TO STATION NO. 1829

Logarithms

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1830

Date, Sept 10 1882

Time of day, 2.35 P.M. : of tide, Flood

Locality, Myacke Bay

Exact position,

New Pt. Lemp. $33^{\circ} 25' 12''$ E 2 $\frac{7}{8}$ miles

Depth, 3-1

Nature of bottom, Sticky

Dredging instrument used, Oyster dredge

Direction of drift, NW : distance, $\frac{1}{8}$ mile

Temperature of air, 54 therm. No.,

" of surface water, 54 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1016.4 temp., 54

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.24

State of sky, Clear

Direction of wind, North ; force, 3

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
Mate

NOTES RELATING TO STATION NO. 1830

Structure for
& one object.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date, *June 16 1893*Time of day, *10:30* : of tide, *High*Locality, *Truckee Bay*

Exact position,

*New River SE 4 E 3 1/4 miles*Depth, *3*Nature of bottom, *fine sand*Dredging instrument used, *dredge*Direction of drift, *W 1/2 N* : distance, *1/2 mile*Temperature of air, *55* therm. No.," of surface water, *55* "" at depth of *3* fathoms, "

" at bottom, "

Density at surface, *1.016* temp.," at depth of *3* fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, *30.12*State of sky, *clear*Direction of wind, *North* ; force, *3*

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. Lightner
Master*

NOTES RELATING TO STATION NO. 1831...

A few clam, oysters

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1032*
 Date, *April 2 1892*
 Time of day, *2.58* : of tide, *Flood*
 Locality, *Whiskey Bay*
 Exact position,
NW 1/4 of Section 26 & 28 3 1/4 miles
 Depth, *2 - 4*
 Nature of bottom, *Hard*
 Dredging instrument used, *Oyster dredge*
 Direction of drift, *W 1/2 N* : distance, *1/8 miles*
 Temperature of air, *56* therm. No.,
 " of surface water, *55* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1.024* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.24*
 State of sky, *b, c, e, s*
 Direction of wind, *North* ; force, *3*
 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*
Senior Lieut. Jnr.
 Name and position of observer,
Pauline Johnson
Mate

NOTES RELATING TO STATION NO. 2

20 specimens + dead skins

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1833*
 Date, *April 16 1893*
 Time of day, *3.03 PM* ; of tide, *Flood*
 Locality, *Wharfack Reef*
 Exact position, *Sw Re-Cumpr SE 1/2 E 4 miles*
 Depth, *2-1*
 Nature of bottom, *Mud*
 Dredging instrument used, *Hydraulic dredge*
 Direction of drift, *West* ; distance, *1/2 mile*
 Temperature of air, *56* therm. No.,
 " of surface water, *57* ..
 " at depth of fathoms, ..
 " at bottom, ..
 Density at surface, *1015* temp.,
 " at depth of fathoms, ..
 " at bottom, ..
 Number of salinometer,
 Barometer reading, *30.24*
 State of sky, *bclear*
 Direction of wind, *West* ; force, *3*
 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*
 Serient U.S.N.
 Name and position of observer,
 J. M. Johnston
 Master U.S.N.

NOTES RELATING TO STATION NO. 803

3 pages

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *22*Date, *April 10 1882*Time of day, *5:15 AM*; of tide, *low*Locality, *North of the 1000*

Exact position

*North of Camp SE 1/4 E 4 1/4 miles*Depth, *3 fms*Nature of bottom, *fine sand*Dredging instrument used, *dredge*Direction of drift, *North*; distance, *1/2 mile*Temperature of air, *56* therm. No.," of surface water, *57* "

" at depth of fathoms, "

" at bottom, "

Density at surface, *1.015* temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, *30.24*State of sky, *clear*Direction of wind, *North*; force, *3*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel *U.S. Fish Com.*Service to which attached, *U.S. Fish Com.*Name and rank of commanding officer, *Robert Plate*Name and position of observer, *Robert Plate*

NOTES RELATING TO STATION NO. 153

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1835*Date, *April 16 1882*Time of day, *3.23 P.M.*; of tide, *Flood*Locality, *Mobyack bay*

Exact position,

*New Point Light S E 3/8 E 4 3/8 miles*Depth, *2.3*Nature of bottom, *Soft*Dredging instrument used, *Small dredge*Direction of drift, *NE 2 N*; distance, *1/8 mile*Temperature of air, *54* therm. No.," of surface water, *57* "

" at depth of fathoms, "

" at bottom, "

Density at surface, *1010* temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, *30.0*State of sky, *Clear*Direction of wind, *SE*; 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 Platt**Lieut. U.S.N.*

Name and position of observer,

John ...

NOTES RELATING TO STATION NO. 1780

See Report

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1886*Date, *April 10 1886*Time of day, *3:30 P.M.* ; of tide, *Low*Locality, *Woods Hole*

Exact position,

*Open No. 100 feet S 8 1/2 E 4 7/8 miles*Depth, *2, 3*Nature of bottom, *soft*Dredging instrument used, *Oyster dredge*Direction of drift, *N 1/2 W* ; distance, *10 miles*Temperature of air, *59* therm. No.," of surface water, *57* "

" at depth of fathoms, "

" at bottom, "

Density at surface, *1.015* temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, *30.24*State of sky, *clear*Direction of wind, *W. etc* ; force, *3*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, *U.S.F.C. St. Field*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. H. ...

NOTES RELATING TO STATION NO. 100

100 - In a good stream - hills

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1837*
 Date, *April 24 1893*
 Time of day, *11:50 am*; of tide, *Ebb*
 Locality, *Delaware Bay*
 Exact position, *Cape May Let House*
8 x 8 1/2 miles
 Depth, *71 fms*
 Nature of bottom, *Hard*
 Dredging instrument used, *Berm Trawl*
 Direction of drift, *NNE* : distance, *1/4 mile*
 Temperature of air, *53* therm. No.,
 " of surface water, *56* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1017* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.32*
 State of sky, *Clear*
 Direction of wind, *NNE* ; 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. ...*
Comdr. U.S.N.
 Name and position of observer, *...*
Master

NOTES RELATING TO STATION NO. 1837

Skate White Tropic small
gorgonias one small squid
shrimp

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1838*
 Date, *April 24th 1893*
 Time of day, *12.15 pm*; of tide, *Ebb*
 Locality, *Chesapeake Bay*
 Exact position, *Cape Kent, 10.00*
SS E 14 E 1 1/2 miles
 Depth, *10.3*
 Nature of bottom, *hard*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *N X W*; distance, *1/4 miles*
 Temperature of air, *58* therm. No.,
 " of surface water, *56* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1016.8* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.33*
 State of sky, *clear*
 Direction of wind, *NNE*; force, *3*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S. Fish Com.*
 Service to which attached, *U.S.F.C.*
 Name and rank of commanding officer, *Robert H. Allen*
Comdr. U.S.N.
 Name and position of observer,
Wm. L. ...
Master

NOTES RELATING TO STATION NO. 1838

Went to fish Haik
Den in summer

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1839

Date, April 24 1893

Time of day, 12:48 Pm : of tide, Ebb

Locality, Chesapeake Bay

Exact position 1/2 two light in ocean

Singer 2 miles

Depth, 11

Nature of bottom, Mud

Dredging instrument used,

Direction of drift, none ; distance, 1/2 mile

Temperature of air, 58 therm. No.,

" of surface water, 56 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0166 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.32

State of sky, Clear

Direction of wind, East ; force, 3

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, Lieut. Plate

Lieut. Plate

Name and position of observer,

J. C. ...
Master

NOTES RELATING TO STATION NO. 1939

Water haul. Saw two or
three few drills

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1828*Date, *April 24th 1893*Time of day, *1.32 P.M.* of tide, *Flood*Locality, *Chesapeake Bay*Exact position, *2 1/4 N 2 miles*Depth, *11.5*Nature of bottom, *hard*Dredging instrument used, *Beam Trawl*Direction of drift *drift 1/2 N*; distance, *1/4 mile*Temperature of air, *59* therm. No.," of surface water, *50* "

" at depth of fathoms, "

" at bottom, "

Density at surface, *1.0266* temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, *30.32*State of sky, *Clear*Direction of wind, *East* ; force, *3*

Rain,

Direction of surface current, : force,

" of bottom " : force.

Name of vessel, *U.S. Fish Com.*Service to which attached, *U.S.F.C.*Name and rank of commanding officer, *Robert Plant**Comdr. U.S.F.C.*

Name and position of observer,

William H. Tom
U.S. Fish Com.

NOTES RELATING TO STATION NO. 440

Skate St. John's Conch
Squid & skate eggs found

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1041*
 Date, *April 24 1882*
 Time of day, *10 58 AM* : of tide, *High*
 Locality, *Chesapeake Bay*
 Exact position, *Cape Henry S 40*
S 2 E 1 1/2 miles
 Depth, *12*
 Nature of bottom, *Mucky*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *N 1/2 W*; distance, *1/4 mile*
 Temperature of air, *54* therm. No.,
 " of surface water, *56* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1.0166* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.32*
 State of sky, *Clear*
 Direction of wind, *East* ; 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, *Robert Platt*
Capt. U.S.N.
 Name and position of observer,
 Johnston
 Institute

NOTES RELATING TO STATION NO.

State the first appearance
of the fossils, and

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. *1842*
 Date, *April 24 1893*
 Time of day, *2.28 P.M.* : of tide, *High*
 Locality, *Chesapeake Bay*
 Exact position, *Cape Henry St 140*
SE 1/2 S 1 mile
 Depth, *11*
 Nature of bottom, *Hard*
 Dredging instrument used, *Beam trawl*
 Direction of drift, *ESE* ; distance, *1/4 mile*
 Temperature of air, *54* therm. No.,
 " of surface water, *56* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1016.6* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer.
 Barometer reading, *30.02*
 State of sky, *clear*
 Direction of wind, *East* ; force, *3*
 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*
Capt - U.S.N.
 Name and position of observer, *John S. ...*
U.S.N.

NOTES RELATING TO STATION NO. 192

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RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1843*
 Date, *April 24th 1893*
 Time of day, *2.46* *Run* of tide. *Flow*
 Locality, *Chesapeake Bay*
 Exact position, *Cape Henry, Va.*
SE 1/2 2 miles
 Depth, *8*
 Nature of bottom, *Hard*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *SW 1/2 N*; distance, *1/4 mile*
 Temperature of air, *54* therm. No.,
 " of surface water, *56* "
 " at depth of fathoms. "
 " at bottom, "
 Density at surface, *1017.2* temp.,
 " at depth of fathoms. "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.26*
 State of sky, *Clear*
 Direction of wind, *East*; force, *3*
 Rain,
 Direction of surface current, : force,
 " of bottom " : force,
 Name of vessel, *U. S. Fish Com. Fish Hawk*
 Service to which attached, *No 570*
 Name and rank of commanding officer, *Robert Platt*
Comdr. U. S. N.
 Name and position of observer, *J. D. ...*
 ...

NOTES RELATING TO STATION NO. 1943

Black Hermit Crabs

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1844*Date, *April 24' 1893*Time of day, *3/2 Pm* ; of tide, *Flows*

Locality,

Exact position, *Leape Head to 140**E S E 1/4 miles*Depth, *6-4*Nature of bottom, *Sand*Dredging instrument used, *Beam Trawl*Direction of drift, *WNW* : distance, *1/4 mile*Temperature of air, *54* therm. No.," of surface water, *56* ..

" at depth of fathoms, ..

" at bottom, ..

Density at surface, *1017.2* temp.,

" at depth of fathoms, ..

" at bottom, ..

Number of salinometer,

Barometer reading, *30.26*State of sky, *Clear*Direction of wind, *SE* ; force, *3*

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 Malt**Lieut. U.S.N.*

Name and position of observer,

*Johnston
Mate U.S.N.*

NOTES RELATING TO STATION NO. 844

Found large bank
of shrimp

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1845*
 Date, *April 24 1893*
 Time of day, *3.24 P.M.* of tide, *High*
 Locality, *Chesapeake Bay*
 Exact position, *Cape Henry St No*
838 4 1/2 miles
 Depth, *6*
 Nature of bottom, *Mucky*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *SW & W* ; distance, *1/4 mile*
 Temperature of air, *54* therm. No.,
 " of surface water, *56* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1.0172* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.26*
 State of sky, *Clear*
 Direction of wind, *SE* ; 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, *Robert Platt*
Lieut. - U.S.N.
 Name and position of observer,
 John L. ...
 Master

NOTES RELATING TO STATION NO. 1105

Skull with some staining
stomach

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1846*
 Date, *April 25 1892*
 Time of day, *2:50 Pm* ; of tide, *Flood*
 Locality, *Cheapeake Bay*
 Exact position, *Wherryton Co. West 2 x 1/2 mile*
Old Plantation Flat 2 1/2 mi SE 1/4 mi
 Depth, *15*
 Nature of bottom, *Sand*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *S x E* ; distance, *1/2 mile*
 Temperature of air, *60* therm. No.,
 " of surface water, *55* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1.017* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.06*
 State of sky, *Cloudy*
 Direction of wind, *SW* ; force, *3*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S. Fish Comm.*
 Service to which attached, *U.S.F.C.*
 Name and rank of commanding officer, *Robert Platt*
Ensign U.S.N.
 Name and position of observer, *Frederick M. ...*
Master U.S.N.

NOTES RELATING TO STATION NO. 1000

One dozen Small Rocks

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1517*Date, *April 27 93*Time of day, *2:15 P.M.* ; of tide, *Ebb*Locality, *Chesapeake Bay*Exact position, *Wormy station 888 2 miles**Plantation Sta 5848 3 miles*Depth, *17*Nature of bottom, *Soft*Dredging instrument used, *Beam Trawl*Direction of drift, *SW* ; distance, *1/4 mile*Temperature of air, *59* therm. No.," of surface water, *54* ..

" at depth of fathoms, ..

" at bottom, ..

Density at surface, *1.0172* temp.,

" at depth of fathoms, "

" at bottom, ..

Number of salinometer,

Barometer reading, *30.10*State of sky, *Cloudy*Direction of wind, *SW* ; force, *2*Rain, *about 10 minutes*

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 Plate**Lieut. U.S.N.*

Name and position of observer,

NOTES RELATING TO STATION NO. (847)

Star fish
Hake shrimp
Hermit crabs
conch
Sea Robin.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. *1848*
 Date, *April 27 - 93*
 Time of day, *1.34 PM* : of tide, *ebb*
 Locality, *Chocomaque Bay*
 Exact position, *New Point Camp, St. M.*
W 3rd 8 1/4 miles
 Depth, *6-3*
 Nature of bottom, *stick*
 Dredging instrument used, *Beam Trawl*
 Direction of drift, *SW x S* ; distance, *1/4 mile*
 Temperature of air, *59* therm. No.,
 " of surface water, *55* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1.0142* temp.,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.10*
 State of sky, *cloudy*
 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*
Capt - U.S.N.
 Name and position of observer, *John ...*
Master U.S.N.

NOTES RELATING TO STATION NO. 1848

25
Starfish *Silurus* *silurus*
2 Manhattan Crabs

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1849*

Date,

Time of day, : of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

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

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

 Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

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

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

 Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide.

Locality,

Exact position.

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer.

Barometer reading.

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, : force,

" of bottom " : force.

Name of vessel,

Service to which attached,

Name and rank of commanding officer.

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____
 Date, _____
 Time of day, _____ : of tide, _____
 Locality, _____
 Exact position, _____
 Depth, _____
 Nature of bottom, _____
 Dredging instrument used, _____
 Direction of drift, _____ ; distance, _____
 Temperature of air, _____ therm. No., _____
 " of surface water, _____
 " at depth of _____ fathoms, _____
 " at bottom, _____
 Density at surface, _____ temp., _____
 " at depth of _____ fathoms, _____
 " at bottom, _____
 Number of salinometer, _____
 Barometer reading, _____
 State of sky, _____
 Direction of wind, _____ ; force, _____
 Rain, _____
 Direction of surface current, _____ : force, _____
 " of bottom " _____ : force, _____
 Name of vessel, _____
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 Name and position of observer, _____

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Rain,

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 " at bottom, _____
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 Direction of drift, ; distance,
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 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp.,
 " at depth of fathoms, "
 " at bottom, "
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 State of sky,
 Direction of wind, ; force,
 Rain,
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