

1387 to 1390
~~1889~~

1892w

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1387 to 1390

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No.

1387

Date,

4 Jan 1889

Time of day,

10:30 am; of tide, ebb

Locality,

Off Cape Fear

Exact position,

33° 48' 10"

78 04.45

Depth,

6 fathoms

Nature of bottom,

gray sand & gravel

Dredging instrument used,

dredge

Direction of drift,

S.W. by W; distance,

54°

Temperature of air,

54°

therm. No. 5454

" of surface water,

50.5

5385

" at depth of fathoms,

" at bottom,

Density at surface,

1024.5

temp., 50.5

" at depth of fathoms,

" at bottom,

Number of salinometer,

5249

Barometer reading,

30.29

State of sky,

Clear

Direction of wind,

NE

; force, moderate

Rain,

Direction of surface current,

S by E; force,

" of bottom " ; force,

Name of vessel,

Fish Hawk

Service to which attached,

U.S.F.C.

Name and rank of commanding officer,

Robert Stone Lieut U.S.N.

Name and position of observer,

C. S. Adams

Assistant U.S.F.C.

NOTES RELATING TO STATION NO.

Dredge fouled and lost,
According to instructions no
bottom density and temperature
were taken, sounding apparatus
not being in position.

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. 1387
 Date, 14 Jan
 Time of day, 11 AM of tide, ebb
 Locality, off Cape Fear
 Exact position, 33-48-10
 78 04 48
 Depth, 6.5 fathoms
 Nature of bottom, Coral
 Dredging instrument used, dredge
 Direction of drift, South ; distance,
 Temperature of air, 54° therm. No., 5254
 " of surface water, 52 " 5385
 " at depth of fathoms, " "
 " at bottom, " "
 Density at surface, 1.0245 temp., 52
 " at depth of fathoms, " "
 " at bottom, " "
 Number of salinometer, 5249
 Barometer reading, 30.25
 State of sky, Clear
 Direction of wind, North ; force, light
 Rain,
 Direction of surface current, SW ; force,
 " of bottom " : force,
 Name of vessel, "Fish Hawk"
 Service to which attached, U.S.F.C.
 Name and rank of commanding officer,
 Robert Platt Lieut U.S.N.
 Name and position of observer, C.B.S. Adams MD
 Assistant U.S.F.C.

NOTES RELATING TO STATION NO.

Specimens of Coral Sponse
Sea Urchins, small oyster shells
with sponge attached, a few
live oysters, drills, star fish
variety *Ophiopholis aculeata*.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1387
 Date, 14 Jan
 Time of day, 2.45 PM; of tide. Early flood
 Locality, Off Cape Fear
 Exact position, 33 48 10
 78 04 41
 Depth, 8 fathoms
 Nature of bottom, Coral
 Dredging instrument used, dredge
 Direction of drift, SW ; distance,
 Temperature of air, 54 therm. No., 5454
 " of surface water, 52 .. 5385
 " at depth of fathoms, ..
 " at bottom, ..
 Density at surface, 23.5 temp., 52
 " at depth of fathoms, ..
 " at bottom, ..
 Number of salinometer, 5249
 Barometer reading. 3024
 State of sky., Clear
 Direction of wind, N : force, light
 Rain,
 Direction of surface current, W : force,
 " of bottom " : force,
 Name of vessel, "Fish Hawk"
 Service to which attached, U.S.F.C
 Name and rank of commanding officer,
Roger Platt Lieut U.S.N
 Name and position of observer, C. B. Adams Wt
Asst U.S.F. Commission

NOTES RELATING TO STATION NO. _____

Three star file, sand and gravel.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1387
 Date, 14 Jan 89
 Time of day, 3:00 PM; of tide, Flood
 Locality, off Cape Fear
 Exact position, 33 48 10
 75 04 41

Depth, 7 fathoms
 Nature of bottom, Rock
 Dredging instrument used, Dredge
 Direction of drift, S.W. ; distance,
 Temperature of air, 53 therm. No. 5454
 " of surface water, 52 .. 5385
 " at depth of fathoms, ..
 " at bottom, ..

Density at surface, 1.024 temp., 52
 " at depth of fathoms, ..
 " at bottom, ..

Number of salinometer, 5249
 Barometer reading, 30.24
 State of sky, Clear
 Direction of wind, N ; force, light
 Rain,

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

Name of vessel, "Fish Hawk"
 Service to which attached, U.S.F.C.

Name and rank of commanding officer,
Robert Hall Lieut U.S.N.
 Name and position of observer, W.D. Adams, Lt.
Asst U.S.F.C.

NOTES RELATING TO STATION NO.

Sponse Coral Sea Uelins

Sherapeake Bay
RECORD OF DREDGING,
 TEMPERATURE AND DENSITY.

Station No. *1388(?)*

Date, *Feb 19 1892*

Time of day, *7.50 AM*; of tide, *Flood*

Locality, *off Kent Island. Md*

Exact position, *Thames Pt Sta N = SW $\frac{3}{4}$ W - $2\frac{1}{4}$ miles*
Bloody Pt Sta N. S $\frac{1}{4}$ W. 5 $\frac{1}{4}$ miles

Depth, *17 fathoms*

Nature of bottom, *Mud*

Dredging instrument used, *trawl 7 feet*

Direction of drift, *N.W.*; distance, *$\frac{1}{4}$ mile*

Temperature of air, *58°* therm. No.,

“ of surface water, *55°* “

“ at depth of ~~—~~ fathoms, “

“ at bottom, “

Density at surface, temp.,

“ at depth of ~~—~~ fathoms, “

“ at bottom, “

Number of salinometer,

Barometer reading, *30.32*

State of sky, *Cloudy*

Direction of wind, *Calm*; force, *0*

Rain, *Hazy*

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*
St USN

Name and position of observer, *A Cleveland*
State of Maryland

NOTES RELATING TO STATION NO. 1388

obtained a few live Perch
and a quantity of dead Spot
fish and decomposed Mud
also about a peck of coral
ashes & lime

Chesapeake Bay
 RECORD OF DREDGING,
 TEMPERATURE AND DENSITY.

Station No. 1389

Date, Feb 19th 1892

Time of day, 9.15 AM of tide, Flood

Locality, Off Kent Island

Exact position, From Pt St. No. N & W $\frac{1}{2}$ W. $5\frac{1}{4}$ miles.

Blindly Pt St. No. N.E. & N $\frac{3}{4}$ N. $1\frac{1}{2}$ miles.

Depth, 15 fathoms

Nature of bottom, Mud

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, W ; distance, $\frac{1}{4}$ mile

Temperature of air, 87 therm. No.,

" of surface water, 85 "

" at depth of fathoms, "

" at bottom, "

Density at surface, _____ temp.,

" at depth of _____ fathoms, _____

" at bottom, _____

Number of salinometer, _____

Barometer reading, 30.30

State of sky, Cloudy

Direction of wind, SE ; force, 2

Rain, Hazy

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. *[Signature]*
 Name and position of observer, A. Cleveland
 U.S. Navy

NOTES RELATING TO STATION NO. 1389

obtained a few live Perch
and a quantity of dead
spit fish & decomposed
mud

Chesapeake Bay

RECORD OF DREDGING, /

TEMPERATURE AND DENSITY.

Station No. 1390
 Date, Feb 19th 1892
 Time of day, 12.50 PM of tide, Ebb
 Locality, off Core Point
 Exact position, Com Pt S E No W $\frac{1}{4}$ S
 2 $\frac{3}{4}$ miles approx
 Depth, 18 fathoms
 Nature of bottom, Mud
 Dredging instrument used, 7ft B Trawl
 Direction of drift, W, N.W; distance, $\frac{3}{4}$ mile
 Temperature of air, 40 therm. No.,
 " of surface water, 38 "
 " at depth of fathoms, "
 " at bottom, 38 "
 Density at surface, 10.06, temp., 38
 " at depth of fathoms, "
 " at bottom, 10.13, .. 38
 Number of salinometer, 7049. Bot Surface.
 Barometer reading, 30.24
 State of sky, Cloudy
 Direction of wind, S E ; force, 3
 Rain, Hazy
 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
 Lt U.S.N.
 Name and position of observer, A H Cleveland
 (State of Maryland)

NOTES RELATING TO STATION NO. 1390

obtained a few live Peaches
and a quantity of dead
Spot fish & decomposed
mud

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

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

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

 Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

 " of surface water, _____ "

 " at depth of _____ fathoms, _____ "

 " at bottom, _____ "

Density at surface, _____ temp., _____

 " at depth of _____ fathoms, _____ "

 " at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

 " of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer. _____

Barometer reading. _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

“ of surface water, _____ “

“ at depth of _____ fathoms, _____ “

“ at bottom, _____ “

Density at surface, _____ temp., _____

“ at depth of _____ fathoms, _____ “

“ at bottom, _____ “

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

“ of bottom “ _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

“ of surface water, _____ “ _____

“ at depth of _____ fathoms. _____ “ _____

“ at bottom, _____ “ _____

Density at surface, _____ temp., _____

“ at depth of _____ fathoms, _____ “ _____

“ at bottom, _____ “ _____

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

“ of bottom “ _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

“ of surface water, _____ “ _____

“ at depth of _____ fathoms. _____ “ _____

“ at bottom, _____ “ _____

Density at surface, _____ temp., _____

“ at depth of _____ fathoms, _____ “ _____

“ at bottom, _____ “ _____

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

“ of bottom “ _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

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

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

 Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

“ of surface water, _____ “ _____

“ at depth of _____ fathoms, _____ “ _____

“ at bottom, _____ “ _____

Density at surface, _____ temp., _____

“ at depth of _____ fathoms, _____ “ _____

“ at bottom, _____ “ _____

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

“ of bottom “ _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide.

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

“ of surface water, _____ “ _____

“ at depth of _____ fathoms, _____ “ _____

“ at bottom, _____ “ _____

Density at surface, _____ temp., _____

“ at depth of _____ fathoms, _____ “ _____

“ at bottom, _____ “ _____

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

“ of bottom “ _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

“ of surface water, _____

“ at depth of _____ fathoms. _____

“ at bottom, _____

Density at surface, _____ temp., _____

“ at depth of _____ fathoms, _____

“ at bottom, _____

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

“ of bottom “ _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

 " of surface water, _____ "

 " at depth of _____ fathoms, _____ "

 " at bottom, _____ "

Density at surface, _____ temp., _____

 " at depth of _____ fathoms, _____ "

 " at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

 " of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

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

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

 Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide,

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

“ of surface water, _____ “ _____

“ at depth of _____ fathoms, _____ “ _____

“ at bottom, _____ “ _____

Density at surface, _____ temp., _____

“ at depth of _____ fathoms, _____ “ _____

“ at bottom, _____ “ _____

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ : force, _____

“ of bottom “ _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

 " of surface water, _____ "

 " at depth of _____ fathoms, _____ "

 " at bottom, _____ "

Density at surface, _____ temp., _____

 " at depth of _____ fathoms, _____ "

 " at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

 " of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, " _____

" at depth of _____ fathoms, " _____

" at bottom, " _____

Density at surface, _____ temp., _____

" at depth of _____ fathoms, " _____

" at bottom, " _____

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

“ of surface water, _____ “ _____

“ at depth of _____ fathoms. _____ “ _____

“ at bottom, _____ “ _____

Density at surface, _____ temp., _____

“ at depth of _____ fathoms, _____ “ _____

“ at bottom, _____ “ _____

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

“ of bottom “ _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

“ of surface water, _____ “ _____

“ at depth of _____ fathoms, _____ “ _____

“ at bottom, _____ “ _____

Density at surface, _____ temp., _____

“ at depth of _____ fathoms, _____ “ _____

“ at bottom, _____ “ _____

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

“ of bottom “ _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

“ of surface water, _____ “ _____

“ at depth of _____ fathoms, _____ “ _____

“ at bottom, _____ “ _____

Density at surface, _____ temp., _____

“ at depth of _____ fathoms, _____ “ _____

“ at bottom, _____ “ _____

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

“ of bottom “ _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

 " of surface water, _____ "

 " at depth of _____ fathoms, _____ "

 " at bottom, _____ "

Density at surface, _____ temp., _____

 " at depth of _____ fathoms, _____ "

 " at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

 " of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

“ of surface water, _____ “ _____

“ at depth of _____ fathoms, _____ “ _____

“ at bottom, _____ “ _____

Density at surface, _____ temp., _____

“ at depth of _____ fathoms, _____ “ _____

“ at bottom, _____ “ _____

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

“ of bottom “ _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms. _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms. _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

“ of surface water, _____ “ _____

“ at depth of _____ fathoms, _____ “ _____

“ at bottom, _____ “ _____

Density at surface, _____ temp., _____

“ at depth of _____ fathoms, _____ “ _____

“ at bottom, _____ “ _____

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

“ of bottom “ _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms. _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____

" at depth of _____ fathoms, _____

" at bottom, _____

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____

" at bottom, _____

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide.

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms. _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____