

1157  
7767 - 7773

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 7767 to 7783

W. 1905

3 Stobskaw to Wchup 76° 31'  
 Wchup to E " 39° 23'

643

## RECORD OF DREDGING

### TEMPERATURE AND DENSITY

Station No. 7767  
 Date, Aug 23  
 Time of day, 1:38 ; of tide, High water 1:46  
 Locality, Vineyard Sound  
 Exact position, Stobskaw to Wchup 76° 21'  
 Wchup to E " 36° 36'  
 Depth, 8 to 10 fath to 4 fath  
 Nature of bottom, sand & pebbles  
 Dredging instrument used, 9 ft beam trawl mud bag  
 Direction of drift, ; distance,  
 Temperature of air, 81 Fahr. therm. No.,  
 " of surface water, 70 "  
 " at depth of fathoms, "  
 " at bottom, 70 "  
 Density at surface, 1.022 temp., Celsius.  
 " at depth of fathoms, "  
 " at bottom, 1.022 "  
 Number of salinometer, 7450  
 Barometer reading, 29.95  
 State of sky, Clear  
 Direction of wind SW ; force,  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,

Name and position of observer,

11-1068

C. Stobskaw to Wchup 76° 57'  
 Wchup to E " 41° 58'

70 fath out

NOTES RELATING TO STATION NO. 7767

Worms (common)

Few crabs

Many shells

Many small sculpins

RECORD OF OBEDIENCE

B

Trobek to W Chuf 100° 32'  
W Chuf E. 36° 40'

643

# RECORD OF DREDGING

## TEMPERATURE AND DENSITY

Station No. 7768

Date, Aug 23 1905  
 Time of day, 201 ; of tide, Haul down, 09

Locality, Vineyard Sound

Exact position, Trobek to W Chuf 96° 45'  
 W Chuf to E Chuf 35° 47'

Depth, 10 fathoms

Nature of bottom, stones

Dredging instrument used, ff haul + mud bag

Direction of drift, ; distance,

Temperature of air, 81 Fahr. therm. No.,  
 " of surface water, 71 "  
 " at depth of fathoms, "  
 " at bottom, 69.5 "

Density at surface, 10221 temp., Celsius.  
 " at depth of fathoms, "  
 " at bottom, 10227 "

Number of salinometer, 7450

Barometer reading, 29.95

State of sky, B'aring

Direction of wind SW ; force, H

Rain,

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

Name and position of observer,

11-1068

C Trobek to W Chuf 103° 29'  
W Chuf to E Chuf 37° 13'

30 fath out

NOTES RELATING TO STATION NO. 7764

Worms (common)  
Many shells

RECORDS OF BREEDING

B  
 Stobaska to W Chup 95.21  
 W Chup to E Chup 28.34

643

**RECORD OF DREDGING**  
**TEMPERATURE AND DENSITY**

Station No. 7769  
 Date, June 23 1905  
 Time of day, 19:30 ; of tide, 2.2 7:30  
 Locality, Vineyard Sound  
 Exact position, Stobaska W Chup 93.20  
 W Chup to E Chup 28.25  
 Depth, ~~6 fathoms~~ 7 fathoms  
 Nature of bottom, pebbles  
 Dredging instrument used, 9 ft trawl & mud bag  
 Direction of drift, . ; distance,  
 Temperature of air, 81 Fahr. therm. No.,  
 " of surface water, 71 "  
 " at depth of fathoms, "  
 " at bottom, 71 "  
 Density at surface, 1.0221 temp., Celsius.  
 " at depth of fathoms, "  
 " at bottom, 1.0223 "  
 Number of salinometer, 450  
 Barometer reading, 29.95  
 State of sky, hazy  
 Direction of wind SW ; force, 11  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,

Name and position of observer,  
 11-1068  
 Stobaska to W Chup 97.19  
 W Chup to E Chup 28.27

20 m/s

NOTES RELATING TO STATION NO. 7769

Few starfish  
Worms (common)  
Many shells

UNIVERSITY AND DENVER  
RECORD OF DREDGING

B

Stobekaw to West Chuf 112 47  
West Chuf. E " 28 58

643

# RECORD OF DREDGING

## TEMPERATURE AND DENSITY

Station No. 7770

Date, Aug 23 1945

Time of day, 3:30 of tide, High water, 2:30

Locality, Vineyard Sound

Exact position, Stobekaw to West Chuf 106 34

West Chuf to E " 27 53

Depth, 10 fathoms to 12 fathoms

Nature of bottom, sand & pebbles

Dredging instrument used, Agassiz dredge

Direction of drift, ; distance,

Temperature of air, 81 Fahr. therm. No.,

" of surface water, 71 "

" at depth of fathoms, "

" at bottom, 69.5 "

Density at surface, 1.0219 temp., Celsius.

" at depth of fathoms, "

" at bottom, 1.0221 "

Number of salinometer, 7850

Barometer reading, 29.95

State of sky, hazy

Direction of wind, East ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name and position of observer,

11-1068

C Stobekaw to West Chuf 114 45

West Chuf to E " 29 52

30 fathoms out

NOTES RELATING TO STATION NO. 7220

few sponges

few crabs

few shells

# RECORD OF DREDGING

## TEMPERATURE AND DENSITY

Station No. 7771

Date, August 23 1905

Time of day, 9:30 ; of tide, 3.00

Locality, Vineyard Sound

Exact position, W chop 10 2 4 8

W chop E " 20 14

Depth, 7 fathoms

Nature of bottom, sand & rocks

Dredging instrument used, Hydraulic dredge

Direction of drift, ; distance,

Temperature of air, 81 Fahr. therm. No.,

" of surface water, 71 "

" at depth of fathoms, "

" at bottom, 69.5 "

Density at surface, 1.0218 temp., Celsius.

" at depth of fathoms, "

" at bottom, 1.0218 "

Number of salinometer, 7450

Barometer reading, 29.95

State of sky, Clear

Direction of wind East ; force, 11

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name and position of observer,

C

Local current in surface  
no further out

NOTES RELATING TO STATION NO. 7771

Few shells  
Few flounders

REMEMBER THE END DETAILS  
RECORD OF BEDDING

B <sup>Fal</sup> Water Tower - to Stobaska 59'07  
Stobaska W Chuf 11857

643

# RECORD OF DREDGING

## TEMPERATURE AND DENSITY

Station No. 7772  
Date, August 23  
Time of day, 3:09 ; of tide, Highlands  
Locality, Vinyard Sound  
Exact position, A Stobaska W Chuf 115°34'  
West Chuf E " 1919  
Depth, 6 1/2 fathoms to 7 1/2 - 8  
Nature of bottom, sand & pebbles  
Dredging instrument used, 9 ft trawl + mud bug  
Direction of drift, ; distance,  
Temperature of air, 81 - Fahr. therm. No.,  
" of surface water, 71 "  
" at depth of fathoms, "  
" at bottom, 64 "  
Density at surface, 1.0219 temp., Celsius.  
" at depth of fathoms, "  
" at bottom, 1.0219 "  
Number of salinometer, 74.50  
Barometer reading, 29.95  
State of sky, Hazy  
Direction of wind SE gust ; force,  
Rain,  
Direction of surface current, ; force,  
" of bottom " ; force,  
Name and position of observer,

11-1068  
C E Chuf to obs 115°48'  
Observing K. Stobaska 10104

21 fath

NOTES RELATING TO STATION NO. 7772

Sponges (common)  
Worms (common)  
Few shells

RECORD OF BREEDING

643

B

E Chubb to Observatory  
Observatory to Hoboken

10642  
8915

# RECORD OF DREDGING

## TEMPERATURE AND DENSITY

Station No. 7773

Date, August 23, 1905

Time of day, 3:33 ; of tide, 3:31

Locality, Vineyard Sound

Exact position, E Chubb to Observ  
Observatory to Hoboken 10941  
9252

Depth, 110 fathoms

Nature of bottom, pebbles + stones

Dredging instrument used, 9 ft beam trawl

Direction of drift, ; distance,

Temperature of air, 80 Fahr. therm. No.,

“ of surface water, 71 “

“ at depth of fathoms, “

“ at bottom, 69 “

Density at surface, 1.0219 temp., Celsius.

“ at depth of fathoms, “

“ at bottom, 1.0222 “

Number of salinometer, 7450

Barometer reading, 29.95

State of sky, Clear

Direction of wind SE ; force,

Rain,

Direction of surface current, ; force,

“ of bottom “ ; force,

Name and position of observer,

11-1008

C. E. Chubb to Observatory 0446  
Observatory to Hoboken 8730

30 fathoms out

NOTES RELATING TO STATION NO. 7773

*Few worms*

*Few shells*

B  
Sal. Water basin to Stobekai 77° 05'  
Stobekai to W Chupv 12219

643

# RECORD OF DREDGING

## TEMPERATURE AND DENSITY

Station No. 7774  
Date, August 13, 1905  
Time of day, 3:43 ; of tide, 3.51  
Locality, Vinograd Sound  
Exact position, Water Tower Stobekai 8058  
Stobekai to W Chupv 11321  
Depth, 7 fathoms  
Nature of bottom, pebbles  
Dredging instrument used, 9 ft beam trawl  
Direction of drift, ; distance,  
Temperature of air, 75 Fahr. therm. No.,  
" of surface water, 70.5 "  
" at depth of fathoms, "  
" at bottom, 69 "  
Density at surface, 1.0221 temp., Celsius.  
" at depth of fathoms, "  
" at bottom, 1.0221 "  
Number of salinometer, 7450  
Barometer reading, 29.95  
State of sky, Clear  
Direction of wind ; force,  
Rain,  
Direction of surface current, ; force,  
" of bottom " ; force,  
Name and position of observer,

11-1068  
C Sal. Water basin to Stobekai 73 45  
Stobekai to W Chupv 13001

73 fathoms out

NOTES RELATING TO STATION NO. 7774

Few starfish  
Few shells

UNIVERSITY OF CHICAGO  
RECORD OF OBSERVATIONS

B  
Observatory Stobek 102 15  
Stobek to Station Pt 93 —

643

# RECORD OF DREDGING

## TEMPERATURE AND DENSITY

Station No. 7775  
Date, August 23, 1905  
Time of day, 3:59 ; of tide, H. 07  
Locality, Yungood Sound  
Exact position, Observatory Stobek 105 —  
Stobek to Station Pt 87 33  
Depth, 9 fathoms  
Nature of bottom, pebbles & stones  
Dredging instrument used, 9 ft trawl mud bag  
Direction of drift, ; distance,  
Temperature of air, 75 Fahr. therm. No.,  
" of surface water, 70 "  
" at depth of fathoms, "  
" at bottom, 68.5 "  
Density at surface, 1.0221 temp., Celsius.  
" at depth of fathoms, "  
" at bottom, 1.0220 "  
Number of salinometer, 7450  
Barometer reading, 29.97  
State of sky, Clear.  
Direction of wind, SE ; force,  
Rain,  
Direction of surface current, ; force,  
" of bottom " ; force,  
Name and position of observer,

11-1068

C  
Observatory to Stobek 96 18  
Stobek to Station Pt 98 44  
27 fathoms

NOTES RELATING TO STATION NO. 7775

*Few shells*

B  
Tyt.

W Tower to Stobekaw  
Stobekaw to Stobekaw Pt

116° 56'  
50° 36'

643

# RECORD OF DREDGING

## TEMPERATURE AND DENSITY

Station No. 7776

Date, August 23 1905

Time of day, 4:20:30 ; of tide, 32.30

Locality, Vineyard Sound

Exact position, W Tower to Stobekaw 12121  
Stobekaw to Stobekaw Pt 4315

Depth, 5 x 6 fms

Nature of bottom, stones + shells

Dredging instrument used, 9 ft dredge + mud bag

Direction of drift, ; distance,

Temperature of air, 75 Fahr. therm. No.,

“ of surface water, 72

“ at depth of fathoms,

“ at bottom, 69

Density at surface, 1.0218 temp., Celsius.

“ at depth of fathoms, “

“ at bottom, 1.0219 “

Number of salinometer, 7450

Barometer reading, 29.95

State of sky, clear.

Direction of wind ; force,

Rain,

Direction of surface current, ; force,

“ of bottom “ ; force,

Name and position of observer,

Stobekaw Pt  
 Vineyard Sound  
 W Tower  
 12121  
 4315

11-1068  
 O. W. Johnson  
 Stobekaw to Stobekaw Pt  
 11° 54'  
 58 40

15 fms net

NOTES RELATING TO STATION NO. 7776

*Few starfish  
Few shells*

RECORD OF PROGRESS

B. Fair Water bank to Stoboka 50' 3" 2  
 Stoboka E. Chup 90' 1"  
 S.H. St. N. 1/4 W - Wchup S 13° W

643

## RECORD OF DREDGING

### TEMPERATURE AND DENSITY

Station No. 7777

Date, August 26<sup>th</sup> 1905

Time of day, 8:25; of tide, 8:43

Locality, Yung and Sand

Exact position, Water Tanker Stoboka 49' 0" 3

Depth, 5 1/2 fathoms - Wchup S 11° W - 92' 14"

Nature of bottom, sand & pebbles

Dredging instrument used, 9 ft beam trawl & mud bag

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

Temperature of air, 63 Fahr. therm. No., \_\_\_\_\_

“ of surface water, 69 “ \_\_\_\_\_

“ at depth of \_\_\_\_\_ fathoms, “ \_\_\_\_\_

“ at bottom, 70 “ \_\_\_\_\_

Density at surface, 1.022 temp., \_\_\_\_\_ Celsius.

“ at depth of \_\_\_\_\_ fathoms, “ \_\_\_\_\_

“ at bottom, 1.022 “ \_\_\_\_\_

Number of salinometer, 7450

Barometer reading, 29.94

State of sky, Cloudy

Direction of wind SE; force, \_\_\_\_\_

Rain, \_\_\_\_\_

Direction of surface current, \_\_\_\_\_; force, \_\_\_\_\_

“ of bottom “ \_\_\_\_\_; force, \_\_\_\_\_

Name and position of observer, \_\_\_\_\_

11-1068

C. Fair Water bank to Stoboka 53' 4" 7  
 Stoboka E. Chup 90' 0" 2  
 S.H. St. N. 1/4 W - Wchup S 11° W

16 fathoms out

NOTES RELATING TO STATION NO. 7777

Starfish (common)  
Shells (few)  
Sponges (common)

RECORDED BY THE U.S. GEOLOGICAL SURVEY  
RECORDS OF OBSERVATIONS

B Sub Water tank to Stokobekaw 63 3' 2"  
 Stokobekaw to E Chup 86 5' 5"  
 S.H. Stokobekaw - W Chup S.H. W  
 643

**RECORD OF DREDGING**  
**TEMPERATURE AND DENSITY**

Station No. 7778  
 Date, August 26 1905  
 Time of day, 9:49 AM ; of tide, High water  
 Locality, Myymud Sound  
 Exact position, Sub Water tank to Stokobekaw 59 4' 2"  
 Stokobekaw to E Chup 85 47  
 Depth, 4 - S.H. Stokobekaw W Chup S.H. W  
 Nature of bottom, sand & pebbles  
 Dredging instrument used, 1/2 beam trawl mud bag  
 Direction of drift, ; distance,  
 Temperature of air, 63 Fahr. therm. No., 1592  
 " of surface water, 68 " 1591  
 " at depth of fathoms, " 1590  
 " at bottom, 69 " 1589  
 Density at surface, 1.0222 temp., 68.5 Celsius, 20.3  
 " at depth of fathoms, " 68.5 " 20.3  
 " at bottom, 1.0222 " 69 " 20.3  
 Number of salinometer, 4150  
 Barometer reading, 29.94  
 State of sky, partly cloudy  
 Direction of wind, ; force, A 4 S 15  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,

Name and position of observer,

11-1068

C  
 Sub Water tank to Stokobekaw 66° 03'  
 Stokobekaw to E Chup 85° 18'  
 S.H. Stokobekaw - E Chup 5 19 2  
 15 out

NOTES RELATING TO STATION NO. 7778

Many shells  
Few worms  
Several puffers

7 fms. Water tank to Stobekka 50' 48"  
 Stobekka to E. Chup 105' 09"  
 SH x W 3/4 W. W Chup 59' 0"

643

## RECORD OF DREDGING

### TEMPERATURE AND DENSITY

Station No. 7779  
 Date, August 26 1905  
 Time of day, 9 17 ; of tide, High water  
 Locality, Vineyard Sound  
 Exact position, Water tank to Stobekka 46 29  
 Stobekka to E Chup 104 21  
 Depth, 12 1/2 / SH x W 3/4 W E Chup 59' 8"  
 Nature of bottom, sand  
 Dredging instrument used, 1 ft. dredge  
 Direction of drift, ; distance,  
 Temperature of air, 63 Fahr. therm. No.,  
 " of surface water, 69.5 "  
 " at depth of fathoms, "  
 " at bottom, 70 "  
 Density at surface, 1.022 temp., Celsius.  
 " at depth of fathoms, "  
 " at bottom, 1.022 "  
 Number of salinometer, 7450  
 Barometer reading, 29.94  
 State of sky, partly cloudy  
 Direction of wind, SE ; force,  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,

Name and position of observer,  
 C. S. ... Water tank to Stobekka 54' 5" V  
 Stobekka to E Chup 104' 0" 8  
 SH x W 5/8 W W Chup 51' 0" W

NOTES RELATING TO STATION NO. 7779

Many shells  
Few starfish  
Few flounders

TEMPERATURE AND DENSITY  
RECORD OF BREEDING

B

Water bank to Jolokan

72° 52'

Jolokan to E Chup

98° 09'

S.H. J.W. x J.V. x J.R. - W Chup S. 10° E

643

# RECORD OF DREDGING

## TEMPERATURE AND DENSITY

Station No. 7780

Date, August 26 1966

Time of day, 9:30 ; of tide, 9:40

Locality, Vineyard Sound

Exact position, Water bank to Jolokan 64° 0' N  
Jolokan to E Chup 101° 21'

Depth, 7 1/2 / S.H. J.W. x J.V. x J.R. - W Chup S 30° W

Nature of bottom, sand + pebbles

Dredging instrument used, 9 ft beam trawl mud bag

Direction of drift, 7 1/2 ; distance,

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

“ of surface water, 70 “

“ at depth of fathoms, “

“ at bottom, 70 “

Density at surface, 1022 temp., Celsius.

“ at depth of fathoms, “

“ at bottom, 1022 “

Number of salinometer, 1450

Barometer reading, 29.94

State of sky, partly cloudy

Direction of wind, S.W. ; force,

Rain,

Direction of surface current, ; force,

“ of bottom “ ; force,

Name and position of observer,

11-1068

Water bank to Jolokan 80° 51'

Jolokan to E Chup 95° 18'

S.H. J.W. x J.V. x J.R. - W Chup S 4° E

75 out

NOTES RELATING TO STATION NO. 7780

Few sponges  
Few shells  
Many starfish

RECORD OF DREDGING  
ALBANY AND DENVER

B Fal.  
 Water bank to Stobekia 105° 03'  
 Stobekia to E Chuf 86° 46'  
 SH of W - W Chuf S 10° E

**RECORD OF DREDGING**  
 TEMPERATURE AND DENSITY

Station No. 7781  
 Date, August 26<sup>th</sup> 1905  
 Time of day, 9:46 ; of tide, High water  
 Locality, Buzzard Sound  
 Exact position, Water bank to Stobekia 95° 20'  
 Stobekia to E Chuf 91 -  
 Depth, 563/SH of W & Jr. - W Chuf S 8° E  
 Nature of bottom, coarse sand & pebbles  
 Dredging instrument used, 9 ft trawl + mud bag  
 Direction of drift, ; distance,  
 Temperature of air, 63 Fahr. therm. No.,  
 " of surface water, 70 "  
 " at depth of fathoms, "  
 " at bottom, 69 "  
 Density at surface, 1022 temp., Celsius.  
 " at depth of fathoms, "  
 " at bottom, 1022 "  
 Number of salinometer, 7450  
 Barometer reading, 29.94  
 State of sky, partly cloudy  
 Direction of wind, S.E. ; force,  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,

Name and position of observer,  
 C Water bank to Stobekia 101° 43'  
 Stobekia to E Chuf 82 13  
 SH of W - W Chuf S 11° E

11-1068

NOTES RELATING TO STATION NO. 7781

Many starfish  
Many shells  
Hard sponges

RECORD OF DREDGING

B 7.1 Water tank to Hoboken 66° 59'  
 Hoboken to E Rhoft 113° 11'  
 S.H. N.W. 1/2 - W Rhoft S 30° E  
 643

## RECORD OF DREDGING

### TEMPERATURE AND DENSITY

Station No. 7982  
 Date, August 26  
 Time of day, 10:16 ; of tide, 10:26  
 Locality, Buzzard Sound  
 Exact position, A Fall Water tank to Hoboken 60 57  
 Hoboken to E Rhoft 112 47  
 Depth, 10 S.H. N.W. 1/2 - W Rhoft S 30 W  
 Nature of bottom, sand & pebbles  
 Dredging instrument used, 1/2 inch dredge  
 Direction of drift, ; distance,  
 Temperature of air, 64 Fahr. therm. No.,  
 " of surface water, 70 "  
 " at depth of fathoms, "  
 " at bottom, 70 "  
 Density at surface, 1.022 temp., Celsius.  
 " at depth of fathoms, "  
 " at bottom, 1.022 "  
 Number of salinometer, 7150  
 Barometer reading, 29.94  
 State of sky, Partly cloudy  
 Direction of wind, SE ; force, mod  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,

Name and position of observer,  
 11-1068 C 7.1 Water tank to Hoboken 66° 59'  
 Hoboken to E Rhoft 113° 11'  
 S.H. N.W. 1/2 - W Rhoft S 30° E

75 30 fms

NOTES RELATING TO STATION NO. 7282

Few shells  
Few puffers

RECORD OF BREEDING



NOTES RELATING TO STATION NO. 7783

Wichita to base 63.28  
base to W. corner 58.12

N + W 2/6  
Few shells  
Few sponges

# 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, Fahr. therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp., Celsius.

" 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 and position of observer,

NOTES RELATING TO STATION NO. ....

RECORD OF BREEDING

# 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, Fahr. therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp., Celsius.

" 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 and position of observer,

NOTES RELATING TO STATION NO. ....

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RECORD OF BREEDING

# 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, Fahr. therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp., Celsius.

" 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 and position of observer,

NOTES RELATING TO STATION NO. ....

REVERSIBLE AND PERMANENT

RECORD OF DYEING

# 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, Fahr. therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp., Celsius.

" 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 and position of observer,

11-1068

NOTES RELATING TO STATION NO.

NOTES RELATING TO STATION NO. ....

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RECORD OF BREEDING

# 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, Fahr. therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp., Celsius.

" 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 and position of observer,

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RECORD OF BREEDING

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" at bottom, "

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" at bottom, "

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