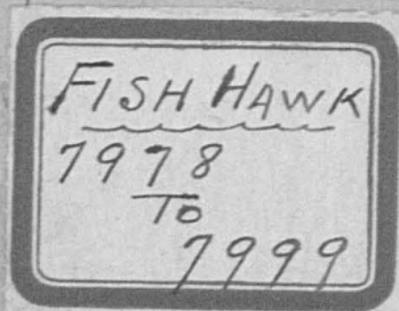


dredging stations
 7978 to 7999.

Fish Hawk

From Sept 23 - 13
 to Oct 18 - 13

Coast of New Carolina.



yr. 1913

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7978
 Date, 9.23.13
 Time of day, 7.28 a.m. of tide.
 Locality, Dunfont to Cape Fear
 Exact position, N.N.W 7 miles from
 Sta. 7977.
 Depth, 14 3/4 fathoms.
 Nature of bottom, S. Co. sh.
 Dredging instrument used, Dredge - mud bag
 Direction of drift, P.W. ; distance, 0
 Temperature of air, 69 Fahr. therm. No., 67
 " of surface water, " 76
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, 30.11
 Barometer reading, 30.11
 State of sky, Clear
 Direction of wind N.E. ; force, 5
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat. 34° 06' N.
 Long. 77° 23' 30" W

NOTES RELATING TO STATION NO.

Faint, illegible handwritten notes on lined paper, possibly describing geological observations or measurements.

TEMPERATURE AND DENSITY
RECORDED FOR CROSS

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. **7979**
 Date, **9. 23. 13.**
 Time of day, **8³⁵ am.** ; of tide,
 Locality, **Brentford to Cape Fear**
 Exact position, **0. 1/2 N 0 Miles**
from Sta. 7978
 Depth, **15 1/2 fathoms**
 Nature of bottom, **S. shell & Co.**
 Dredging instrument used, **Dred trawl drag bag**
 Direction of drift, **Dr** ; distance, **0**
 Temperature of air, **75** Fahr. therm. No., **75**
 " of surface water, **76** "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, **30.13**
 State of sky, **Clear**
 Direction of wind **NE.** ; force, **5**
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat **33° 59' N**
 Long **79° 48' W**

NOTES RELATING TO STATION NO.

[Faint, illegible text and markings on lined paper, possibly bleed-through from the reverse side]

LEWIS & CLARK
RECORD OF OBEDIENCE

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. **7980**
 Date, **9.24.13**
 Time of day **5:20 am.**; of tide,
 Locality, **Cape Fear**
 Exact position, **Head Lt. No. Cape Fear 726 3/4 E.**
 Depth, **3 1/4 fathoms**
 Nature of bottom, **Mud & Sand**
 Dredging instrument used, **Beam trawl - dredge**
 Direction of drift, **So.**; distance, **0**
 Temperature of air, **71** Fahr. therm. No., **71**
 " of surface water, **73** "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, **30.71**
 State of sky, **Clear**
 Direction of wind **No.**; force, **2**
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

S
 Lat. **33° 48' 15" N.**
 Long **79° 57' 45" W**
77° 59' 15" W

NOTES RELATING TO STATION NO.

DATE OF OBSERVATION

TIME OF DAY

WIND

STATE OF SKY

TEMP.

WIND

STATE OF SEA

WIND

STATE OF SEA

STATE OF SEA

STATE OF SEA

WIND

STATE OF SEA

STATE OF SEA

WIND

TEMP.

WIND

STATE OF SEA

STATE OF SEA

STATE OF SEA

WIND

STATE OF SEA

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STATE OF SEA

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STATE OF SEA

STATE OF SEA

WIND

STATE OF SEA

WIND

STATE OF SEA

TEMPERATURE AND DENSITY

RECORD OF BREEDING

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *7981*
 Date, *9. 24. 13.*
 Time of day, *8.55 am*; of tide,
 Locality, *Cape Fear.*
 Exact position, *Red Lead No -
Cape Fear No. 6*
 Depth, *4 fathoms*
 Nature of bottom, *M S S*
 Dredging instrument used, *Beam trawl*
 Direction of drift, *0* ; distance, *0*
 Temperature of air, *71* Fahr. therm. No., *71*
 " of surface water, *73* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.71*
 State of sky, *clear*
 Direction of wind *N.* ; force, *3*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat 34° 49' N
Long 78° 00' 45" W

NOTES RELATING TO STATION NO.

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RECORD OF BREEDING

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *7985*
 Date, *9.24.13.*
 Time of day, *9:38 am*; of tide,
 Locality, *Cape Fear*
 Exact position, *Sald head N6 1/2 W*
Cape Fear E
 Depth, *5 fathoms*
 Nature of bottom, *Mud*
 Dredging instrument used, *Dredge - Muddy*
Mud sampler
 Direction of drift, *None*; distance, *None*
 Temperature of air, *70* Fahr. therm. No., *70*
 " of surface water, *74* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.74*
 State of sky, *Clear*
 Direction of wind *N*; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Sgt *33° 50' 40"*
Long *78 07' 30" W*
SP and Bearings don't check
van

NOTES RELATING TO STATION NO.

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RECORD OF BREEDING
LUBBER LUBE AND DENSLA

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *7983.*
 Date, *9, 24, 13*
 Time of day, *10:35 am*; of tide,
 Locality, *Cape Fear*
 Exact position, *Point near N 6 x E 1/2*
Cape Fear E.
 Depth, *5 fathoms*
 Nature of bottom, *Mud.*
 Dredging instrument used, *Beam trawl - mud*
bag.
 Direction of drift, *SE*; distance, *None*
 Temperature of air, *73* Fahr. therm. No., *73*
 " of surface water, *74* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.27*
 State of sky, *Clear*
 Direction of wind *NE*; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat 33° 50' 20"
Long 78° 04' 30"
SP and Bearings don't check
van

NOTES RELATING TO STATION NO.

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RECORD OF BREEDING

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *97984*
 Date, *9.24.13.*
 Time of day, *11:10 Am*; of tide,
 Locality, *Cape Fear*
 Exact position, *Bald Head N x E 3/8*
Cape Fear N x E 3/4 E.
 Depth, *7 fathom*
 Nature of bottom, *M. S.*
 Dredging instrument used, *Beam trawl*
 Direction of drift, *SW*; distance, *None*
 Temperature of air, *73* Fahr. therm. No., *73*
 " of surface water, *74* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.53*
 State of sky, *Clear*
 Direction of wind *NE*; force, *5*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

H-1068.

Lat *33° 48' 20"*
Long. *78° 07' 20"*
01 30

NOTES RELATING TO STATION NO.

RECORD OF OBEDIENCE

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No.

7985

Date,

9. 24. 13

Time of day

2:04 pm ; of tide,

Locality,

Cape Fear

Exact position,

Capehead N 6 1/4 E
Cape Fear S x N.

Depth,

7 1/2 fathom

Nature of bottom,

Sh. & Co.

Dredging instrument used,

Beam trawl - ground
log.

Direction of drift,

None

; distance,

None

Temperature of air,

73

Fahr. therm. No.,

7

" of surface water,

74

" at depth of

fathoms,

" at bottom,

Density at surface,

temp.,

Celsius.

" at depth of

fathoms,

" at bottom,

Number of salinometer,

Barometer reading,

30.53

State of sky,

Clear

Direction of wind

NE

; force,

3

Rain,

Direction of surface current,

; force,

" of bottom

"

; force,

Name and position of observer,

11-1068

Lat. 33° 50' N.
 Long. 78° 03' W.
 0 2' 46"

NOTES RELATING TO STATION NO.

RECORD OF OBEDGING

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. **7986**Date, **9. 24, 13**Time of day, **2:34 PM** of tide,Locality, **Cape Fear**Exact position, **Baldhead NE x SE**
Cape Fear SE 1/4 NDepth, **7 1/4 fathoms**Nature of bottom, **Sh. Co.**Dredging instrument used, **Beam trawl -**
Mud bag.Direction of drift, **None**; distance, **None**Temperature of air, **76**Fahr. therm. No., **75**" of surface water, **75**

" at depth of fathoms, "

" at bottom, "

Density at surface,

temp.,

Celsius.

" at depth of fathoms, "

" at bottom, "

Number of salinometer, **3**Barometer reading, **30.72**State of sky, **Clear**Direction of wind **NE**; force, **3**

Rain,

Direction of surface current,

; force,

" of bottom "

; force,

Name and position of observer,

11-1068

Sgt. **330** **50'** **N**
Surf. **78"** **05'** **W**
 04 30

NOTES RELATING TO STATION NO.

LEWIS & CLARK
RECORD OF BREEDING

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *1989*Date, *9.24.13*Time of day, *3:45 pm*; of tide,Locality, *Cape Fear.*Exact position, *Beulah E 1/2 N.*Depth, *5 fathoms*Nature of bottom, *S. sh. Co.*Dredging instrument used, *Sampler*, *Beulah*, *mus*Direction of drift, *75*; distance, *75*Temperature of air, *75* 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, *30.54*State of sky, *Clear*Direction of wind *NE*; force, *4*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name and position of observer,

11-1068

Lgt. *33° 52' N**Long* *78° 04' W**03 30*

NOTES RELATING TO STATION NO.

RECORD OF DREDGING

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. **7988.**
 Date, **9. 24. 13.**
 Time of day, **4:28 pm**; of tide,
 Locality, **Cape Fear**
 Exact position, **Baldhead 50 N 16 1/2 E**
Cape Fear 76 x E 1/2 E
 Depth, **4 1/4 fathoms.**
 Nature of bottom, **sn & sh.**
 Dredging instrument used, **Beam Trawl and**
Sampler
 Direction of drift, **None**; distance, **None**
 Temperature of air, **73** Fahr. therm. No., **74**
 " of surface water, **75** "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, **30.94**
 State of sky, **Clear**
 Direction of wind **76**; force, **3**
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lt **33° 48' 50"**
Long **78° 07' 30"**
01' 40"

NOTES RELATING TO STATION NO.

RECORDED AND INDEXED
MAY 19 1900

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *7989*
 Date, *9. 26. 13*
 Time of day, *3³⁴ pm.* ; of tide,
 Locality, *30 mi. ENE 3/4 E from*
 Exact position, *Forcing pan Shoal light-ship.*
 Depth, *17 fathom.*
 Nature of bottom, *S. O. sh.*
 Dredging instrument used, *Med bag*
 Direction of drift, *None* ; distance, *None*
 Temperature of air, *77* Fahr. therm. No., *76*
 " of surface water, *73* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *3*
 Barometer reading, *30.08*
 State of sky, *Clear.*
 Direction of wind *7/6* ; force, *1*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat. 33° 45' 30" N
Long. 77° 16' W

NOTES RELATING TO STATION NO. 7989.

Net over large Quabree
Net at 4:54 pm. 6 mi.
W $\frac{1}{2}$ So. of Sta. 7989
Towed 15 minutes

Put over surface net
15 miles W $\frac{1}{2}$ S from
Sta 7989 at 7:10 pm., towed
10 minutes.

RECORD OF DREDGING

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *7990*
 Date, *9.27.13*
 Time of day, *6:00 am*; of tide,
 Locality, *Off Beaufort.*
 Exact position, *Cape Lambert E x*
So 1/4 S. Rimbury E 78.
 Depth, *9 fathoms.*
 Nature of bottom, *M. G. S. Sh.*
 Dredging instrument used, *Mud Sampler.*
 Direction of drift, *None*; distance, *None*
 Temperature of air, *74* Fahr. therm. No., *74*
 " of surface water, *73* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *30.01*
 Barometer reading, *30.01*
 State of sky, *Clear*
 Direction of wind *N*; force, *1*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

L. L. Long
340 39' N
76° 44' W

NOTES RELATING TO STATION NO.

RECORD OF BREEDING

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *7991*Date, *4.27. '2*Time of day, *6:19 am*; of tide,Locality, *La. E. S. 1/2 S. Beaumont*Exact position, *S 21 E*Depth, *8 1/4 fathoms*Nature of bottom, *gn. s.*Dredging instrument used, *Mud Sampler*Direction of drift, *None*; distance, *None*Temperature of air, *74* Fahr. therm. No., *74*" of surface water, *73* "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp., Celsius.

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, *30.01*State of sky, *Clear*Direction of wind *SW*; force, *1*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name and position of observer,

11-1068

Lt. 34° 29' N
Long: 76° 42' W

NOTES RELATING TO STATION NO.

TEMPERATURE AND WIND
RECORD OF DREDGING

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. **7997**
 Date, **4.27.13**
 Time of day, **6:43 am**; of tide,
 Locality, **Off Beaufort**
 Exact position, **L.O. 08 x 8 3/4 E**
Sea buoy 171 x 70 1/4 N.
 Depth, **7 1/4 fathoms.**
 Nature of bottom, **m. & s.**
 Dredging instrument used, **Mud sampler**
 Direction of drift, **None**; distance, **None**
 Temperature of air, **74** Fahr. therm. No., **74**
 " of surface water, **73** "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, **30.01**
 State of sky, **Clear**
 Direction of wind **W.N.W.**; force, **2**
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat. **34° 39' N.**
 Long. **76° 47' W.**

NOTES RELATING TO STATION NO.

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TEMPERATURE AND DENSITY
RECORD OF DREDGING

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RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7993.

Date, 10-17-13.

Time of day, 1:42 pm; of tide,

Locality, Fishing grounds, S. O. Light.

Exact position, Ship N 5 W 1/4 W.
2 miles S. O. buoy N 1/4 S.

Depth, 14 3/4 fathoms

Nature of bottom, S. & Sh.

Dredging instrument used, Rembrandt and bag.

Direction of drift, None; distance, None

Temperature of air, 78 Fahr. therm. No., 28

" of surface water, 74 "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp., Celsius.

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.06

State of sky, Clear

Direction of wind SE; force, 7

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name and position of observer,

11-1068

Lat. 34° 51' 30" N.

Long. 76° 23' W.

NOTES RELATING TO STATION NO.

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No.

7994

Date,

10.17.13

Time of day, 1.57 pm; of tide,

Locality, Fishing grounds.

Exact position, Ls. light $WSW \frac{1}{4} N$ 7 miles. Buoy $W \frac{1}{4} N$.

Depth,

15 fathoms

Nature of bottom,

S. & Sh.

Dredging instrument used,

Beam trawl

Direction of drift,

None; distance, none

Temperature of air,

79

Fahr. therm. No.,

78

" of surface water,

74

" at depth of

fathoms,

" at bottom,

Density at surface,

temp.,

Celsius.

" at depth of

fathoms,

" at bottom,

Number of salinometer,

3006

Barometer reading,

State of sky,

Clear

Direction of wind

SE

; force,

4

Rain,

Direction of surface current,

; force,

" of bottom

"

; force,

Name and position of observer,

1068

Lat.

34°

22' N

Long.

76°

22' W

NOTES RELATING TO STATION NO.

[Faint, illegible handwritten notes on lined paper]

TEMPERATURE AND DENSITY
RECORD OF BREEDING

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *7995*
 Date, *10.17.13*
 Time of day, *7:15 pm*; of tide,
 Locality, *Fishing grounds.*
 Exact position *S. Lightship NW x N 1/4*
N. Buoy W 1/4 S.
 Depth, *14 3/4 fathoms*
 Nature of bottom, *S. sh.*
 Dredging instrument used, *Beam trawl*
 Direction of drift, *none*; distance, *none*
 Temperature of air, *78* Fahr. therm. No., *78*
 " of surface water, *74* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.06*
 State of sky, *Clear*
 Direction of wind *S.E.*; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat *34° 22' 15" N*
Long. *76° 22' 30" W*

NOTES RELATING TO STATION NO.

RECORDED AND INDEXED
BUREAU OF GEOLOGICAL SURVEY
WASHINGTON, D. C.

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. **7996**
 Date, **10.19.13**
 Time of day, **2³⁰ pm**; of tide,
 Locality, **Fishing grounds.**
 Exact position, **S. lightship 0 W
1/2 N. buoy W 5 N 1/2 N.**
 Depth, **14 3/4 fathoms**
 Nature of bottom, **Co. & gns.**
 Dredging instrument used, **Beaufort - mud
bag.**
 Direction of drift, **None**; distance, **None**
 Temperature of air, **78** Fahr. therm. No., **98**
 " of surface water, **74** "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, **30.06**
 Barometer reading, **30.06**
 State of sky, **Clear**
 Direction of wind **SE**; force, **4**
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Sat. 34° 22' 7"
Long. 76° 73' 30" W

NOTES RELATING TO STATION NO.

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No.

7995

Date,

10. 18. 13.

Time of day, $1:55$ pm; of tide,

Locality,

Boque inlet.

Exact position,

Boque inlet N.E

Depth,

 $3/8$ E. Boque inlet N.9 $3/4$ fathoms.

Nature of bottom,

W. Gr. S. Sh.

Dredging instrument used,

Beam trawl

Direction of drift,

No. ; distance, No.

Temperature of air,

78 Fahr. therm. No., 76

" of surface water,

71

" at depth of

fathoms,

" at bottom,

Density at surface,

temp.,

Celsius.

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading,

29.93.

State of sky,

Clear.

Direction of wind

S.W.

; force,

3.

Rain,

Direction of surface current,

; force,

" of bottom

"

; force,

Name and position of observer,

11-1068

Sgt.

34° 27' 30" N

Long

78° 08' 20" W

NOTES RELATING TO STATION NO. 7997

Hand line fishing 3.50
to 4:15 pm.

TEMPERATURE AND DETAILS
RECORD OF BREEDING

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No.

7998

Date,

10. 18. 13

Time of day, 4:30 pm of tide,

Locality,

Bogue Inlet.

Exact position,

New River Inlet $7\frac{1}{2}$ W

Depth,

6 fathoms

Nature of bottom,

M. Gr. S. M. wh. p.

Dredging instrument used,

Beaufort's mud bag.

Direction of drift,

None ; distance, None

Temperature of air,

75

Fahr. therm. No.,

75

" of surface water,

71

" at depth of

fathoms,

" at bottom,

Density at surface,

temp.,

Celsius.

" at depth of

fathoms,

" at bottom,

Number of salinometer,

Barometer reading,

29.91

State of sky,

Clear

Direction of wind

SW

; force,

2

Rain,

Direction of surface current,

; force,

" of bottom

"

; force,

Name and position of observer,

11-1068

Lat

34°

28'

N.

Long.

77°

19'

W.

NOTES RELATING TO STATION NO.

RECORDED AND INDEXED
RECORD OF DREDGING

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *7999.*
 Date, *10.18.13.*
 Time of day *5:03 pm.* of tide,
 Locality, *New River Inlet.*
 Exact position, *New River Inlet N. W. 1/2 N.*
 Depth, *6 fathom.*
 Nature of bottom, *W. S. Sh. 40h. p. r.*
 Dredging instrument used, *Beam Trawl, mud bag.*
 Direction of drift, *NE* ; distance, *None*
 Temperature of air, *74* Fahr. therm. No., *74*
 " of surface water, *71* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *29.91*
 State of sky, *clear*
 Direction of wind *SW* ; force, *3*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat: 34° 29' 15" N.
Long: 77° 17' 30" W.

NOTES RELATING TO STATION NO. _____

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TEMPERATURE AND DENSITY
 RECORD OF BEDDING

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.

[Faint, illegible handwritten notes and bleed-through from the reverse side of the page are visible throughout this section.]

TEMPERATURE AND DENSITY
 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, _____

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.

1. *1000*
 2. *1000*
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TEMPERATURE AND DENSITY
 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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TEMPERATURE AND DENSITY
 RECORD OF BREDDING

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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TEMPERATURE AND DENSITY
 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,

11-1068

NOTES RELATIVE TO STATION NO.

NOTES RELATING TO STATION NO.

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TEMPERATURE AND DENSITY
 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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TEMPERATURE AND DENSITY
RECORD OF DWELLING

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.

TEMPERATURE AND DENSITY
RECORD OF DREDGING

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. _____

TEMPERATURE AND DENSITY
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,

11-1068

NOTES RELATING TO STATION NO.

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.

RECORD OF BEDDING

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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TEMPERATURE AND DENSITY
 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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TEMPERATURE AND DEPTH RECORD OF BEDDING

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. _____

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RECORDED AND INDEXED
 DIVISION OF GEOLOGY

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 RELATIVE TO STATION NO.

NOTES RELATING TO STATION NO.

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RECORDED AND INDEXED
RECORDS SECTION

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. _____

1. *[Faint handwritten notes, possibly describing field observations or equipment used.]*
 2. *[Faint handwritten notes, possibly describing weather conditions.]*
 3. *[Faint handwritten notes, possibly describing soil characteristics.]*
 4. *[Faint handwritten notes, possibly describing plant growth.]*
 5. *[Faint handwritten notes, possibly describing insect activity.]*
 6. *[Faint handwritten notes, possibly describing water levels.]*
 7. *[Faint handwritten notes, possibly describing temperature.]*
 8. *[Faint handwritten notes, possibly describing humidity.]*
 9. *[Faint handwritten notes, possibly describing wind direction.]*
 10. *[Faint handwritten notes, possibly describing precipitation.]*
 11. *[Faint handwritten notes, possibly describing cloud cover.]*
 12. *[Faint handwritten notes, possibly describing moon phase.]*
 13. *[Faint handwritten notes, possibly describing time of day.]*
 14. *[Faint handwritten notes, possibly describing date.]*
 15. *[Faint handwritten notes, possibly describing location.]*

TEMPERATURE AND HUMIDITY RECORD OF BREEDING

16. *[Faint handwritten notes, possibly describing temperature.]*
 17. *[Faint handwritten notes, possibly describing humidity.]*
 18. *[Faint handwritten notes, possibly describing wind speed.]*
 19. *[Faint handwritten notes, possibly describing wind direction.]*
 20. *[Faint handwritten notes, possibly describing precipitation.]*
 21. *[Faint handwritten notes, possibly describing cloud cover.]*
 22. *[Faint handwritten notes, possibly describing moon phase.]*
 23. *[Faint handwritten notes, possibly describing time of day.]*
 24. *[Faint handwritten notes, possibly describing date.]*
 25. *[Faint handwritten notes, possibly describing location.]*

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. _____

TEMPERATURE AND DENSITY

DATE AND TIME OF OBSERVATION

LOCATION OF OBSERVATION

NAME OF OBSERVER

NAME OF VESSEL

NAME OF COMMANDER

NAME OF SURVEILLANT

NAME OF ASSISTANT

NAME OF ENGINEER

NAME OF DECKHAND

NAME OF HELPER

NAME OF BOATSWAIN

NAME OF STEWARD

NAME OF COOK

NAME OF BARBER

NAME OF SAILOR

NAME OF BOAT

NAME OF GEAR

NAME OF INSTRUMENT

NAME OF MATERIAL

NAME OF METHOD

NAME OF RESULT

NAME OF CONCLUSION

NAME OF RECOMMENDATION

NAME OF SIGNATURE

TEMPERATURE AND DENSITY

RECORD OF DREDGING

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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TEMPERATURE AND DENRITY
 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,

11-1068

NOTES RELATIVE TO STATION NO.

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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TEMPERATURE AND DENSITY
 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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TEMPERATURE AND DENSITY
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,

11-1068

NOTES RELATIVE TO STATION NO.

NOTES RELATING TO STATION NO.

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RECORDED AND INDEXED
DIVISION OF GEOLOGY

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.

TEMPERATURE AND DEPTH
RECORD OF BEDDING

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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TEMPERATURE AND DEPTH
 RECORD OF DRILLING

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.

RECORDED AND INDEXED
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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TEMPERATURE AND DEWPOINT
 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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NOTES RELATIVE TO STATION NO.

NOTES RELATING TO STATION NO.

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TEMPERATURE AND DENSITY
 RECORD OF BREEDING