

U. S. F. Comm.
Records
Nos 1050-1077
Chesapeake
Bay
1882.

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers, 1050 to 1077

Copey

Bredgings by
U. S. F. C. Str.

Fish Hawk
in Chesapeake Bay.

Feby. & March, 1882.

TEMPERATURE RECORD.

Instrument used, *Oyster Dredge*

Current number of observation, *1050.*

Date, *Feb'y. 27. 1882*

Locality, *Chesapeake Bay.*

Bearings, *Rt. No Rt*

N. N. E. 1 1/2 miles

Time of day, *2. Pm.*; of tide.

State of sky,

Temperature of air, *50.*

" surface of water, *41.*

" at depth of _____ fathoms,

" of bottom,

Depth, in fathoms, *3 1/2*

Nature of bottom, *Mud. & h. fr.*

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

1861

1862

1863

1864

1865

1866

1867

1868

1869

1870

1871

1872

1873

1874

1875

1876

1877

1878

1879

1880

1881

1882

LEWISVILLE RECORD

TEMPERATURE RECORD.

Instrument used, *Oyster Dredge*

Current number of observation, *1051,*

Date, *Feb'y. 27. 1882*

Locality, *Chesapeake Bay*

Bearings, *Rt. No. Rt*

N. by E. 1 mile

Time of day, *2.15 P.M.* of tide.

State of sky,

Temperature of air, *50.*

" surface of water, *41.*

" at depth of _____ fathoms,

" of bottom, *40.*

Depth, in fathoms, *2*

Nature of bottom, *mud, grass.*

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Name of the vessel or person

Name and rank of commanding officer

Date and place of departure

Name of vessel

Name of person captured

Direction of vessel's course

Name of vessel's captain

Direction of vessel's course

Name of person

Name of person

Name of person

Name of person

Name of person

Name of person

Name of person

Name of person

Name of person

Name of person

Name of person

Name of person

Name of person

LEMBERWILHE BECOBO

TEMPERATURE RECORD.

Instrument used, *Oyster Dredge*
 Current number of observation, *1052*
 Date, *Feb'y, 27, 1882*
 Locality, *Chesapeake Bay*
 Bearings, *Pt. to Pt.*
N. N. E. 3/4 mile
 Time of day, *2.30 P.M.*; of tide,
 State of sky,
 Temperature of air, *50,*
 " surface of water, *41,*
 " at depth of fathoms,
 " of bottom, *40.*
 Depth, in fathoms, *13/4.*
 Nature of bottom, *mud. grass.*
 Direction of surface current,
 Force of surface current,
 Direction of bottom current,
 Force of bottom current,
 Name of vessel,
 To what service attached,
 Name and rank of commanding officer,
 Name and position of observer,

REMARKS.

Direction of surface current

Force of surface current

Direction of surface current

Force of surface current

Direction of surface current

Force of surface current

Direction of surface current

Force of surface current

Direction of surface current

Force of surface current

Direction of surface current

Force of surface current

Direction of surface current

Force of surface current

Direction of surface current

Force of surface current

Direction of surface current

Force of surface current

Direction of surface current

Force of surface current

Direction of surface current

Force of surface current

Direction of surface current

REMARKS RECORD

TEMPERATURE RECORD.

Instrument used, *Oyster Dredge*

Current number of observation, *1053*

Date, *Feb. 27, 1882*

Locality, *Chesapeake Bay,*

Bearings, *Pt. No Pt.,
N. by E. 1 1/4 miles*

Time of day, *2.45 P.M.*, of tide,

State of sky,

Temperature of air, *50.*

" surface of water, *41.*

" at depth of _____ fathoms,

" of bottom, *40*

Depth, in fathoms, *23 1/4*

Nature of bottom, *mud, sh. O,*

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Water was found in quantity
under the surface of the ground
the water was found to be
of a soft and pure quality
the quantity was found to be
sufficient for domestic
and agricultural purposes
the water was found to be
of a temperature of 60 degrees
Fahrenheit

TEMPERATURE RECORD.

Instrument used, *Oyster Dredge*

Current number of observation, *1054*

Date, *Feb'y, 27, 1882*

Locality, *Chesapeake Bay*

Bearings, *Pt to Pt*
N. by E. 1 1/4 miles

Time of day, *2.50 P.M.* of tide.

State of sky,

Temperature of air, *50.*

" surface of water, *41.*

" at depth of _____ fathoms,

" of bottom, *40.*

Depth, in fathoms, *2 3/4*

Nature of bottom, *mud, sh. o.*

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Thermog.

Current number of observation,

1055.

Date,

Feb., 28. 1882

Locality,

Pawtucket River

Bearings,

Green Pt. N. E. 1/2 mile

Time of day,

10, 40 am

of tide,

State of sky,

Temperature of air,

46.

"

surface of water,

40.

"

at depth of

fathoms,

"

of bottom.

Depth, in fathoms,

6.

Nature of bottom,

brn. m. sh.

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

UNRECORDED

TEMPERATURE RECORD.

Instrument used, *Rake Dredge*
 Current number of observation, *1056.*
 Date, *Feb'y, 28, 1882*
 Locality, *Rawlins River,*
 Bearings, *Down Pt.*
N. N. E., 1/3 mile
 Time of day, *10, 55*; of tide, *low*
 State of sky,
 Temperature of air, *46.*
 " surface of water, *40*
 " at depth of fathoms,
 " of bottom,
 Depth, in fathoms, *6.*
 Nature of bottom, *brn m. sh.*
 Direction of surface current,
 Force of surface current,
 Direction of bottom current,
 Force of bottom current,
 Name of vessel,
 To what service attached,
 Name and rank of commanding officer,

 Name and position of observer,

REMARKS.

[The following text is extremely faint and illegible due to low contrast and blurring. It appears to be a series of lines of text, possibly a list or a set of notes, but the specific content cannot be discerned.]

TEMPERATURE RECORD.

Instrument used, *Trawl*
Current number of observation, *1057.*
Date, *Feb. 28. 1882*
Locality, *Chesapeake Bay.*
Bearings, *South End Barron Id*
E. x S. 1 3/4 miles.
Time of day, *12 m*; of tide,
State of sky,
Temperature of air, *49*
" surface of water, *40.*
" at depth of fathoms,
" of bottom, *40*
Depth, in fathoms, *17-20*
Nature of bottom, *brn. m*
Direction of surface current,
Force of surface current, *Drift N. N. W. 1/2 m*
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

REMARKS.

[Faint, illegible text, likely bleed-through from the reverse side of the page]

TEMPERATURE RECORD.

Instrument used, *Trawl*

Current number of observation, *1058.*

Date, *Feb. 28. 1882*

Locality, *Chesapeake Bay*

Bearings, *S. End Barron Id.*
S. E. x E, 1/2 E, 2 miles

Time of day, *12, 10; P.M.*

State of sky,

Temperature of air, *49*

" surface of water, *40*

" at depth of _____ fathoms,

" of bottom, *40.*

Depth, in fathoms, *3-25.*

Nature of bottom, *ben. m.*

Direction of surface current,
Swift

Force of surface current, *1/2 m.*

Direction of bottom current.

Force of bottom current.

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

[Faint, illegible text, likely bleed-through from the reverse side of the page]

TEMPERATURE RECORD.

Instrument used, *Trawl*
 Current number of observation, *1059*
 Date, *Feb'y, 28, 1881/2*
 Locality, *Chesapeake Bay*
 Bearings, *S. End of Barron Id*
S. E. 1/4 E. 2 miles
 Time of day, *12:30*; of tide, *High*
 State of sky,
 Temperature of air, *49*
 " surface of water, *40*
 " at depth of fathoms,
 " of bottom, *40,*
 Depth, in fathoms, *2 3/4 - 25*
 Nature of bottom, *brn m*
 Direction of surface current,
 Drift
 Force of surface current, *W. N. W. 3/4 mile*
 Direction of bottom current,
 Force of bottom current,
 Name of vessel,
 To what service attached,
 Name and rank of commanding officer,
 Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, *Trawl*
 Current number of observation, *1060*
 Date, *Feb. 28, 1882*
 Locality, *Chesapeake Bay,*
 Bearings, *Smiths Pt.*
S. S. W. 2 miles.
 Time of day, *4.20 P.M.*; of tide.
 State of sky,
 Temperature of air, *46,*
 " surface of water, *41.5*
 " at depth of fathoms,
 " of bottom, *40, 5*
 Depth, in fathoms, *7*
 Nature of bottom, *brn. m. sh.*
 Direction of surface current,
 W. by N.
 Force of surface current, *S. E. by S. 3/4 mile*
 Direction of bottom current,
 Force of bottom current,
 Name of vessel,
 To what service attached,
 Name and rank of commanding officer,
 Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, *Bredge*
 Current number of observation, *1061.*
 Date, *Mar. 2, 1882*
 Locality, *Chesapeake Bay*
 Bearings, *Smith's Point Light Hs.*
S. by W. 1/2 W. 1 1/2 miles.
 Time of day, *11.20 am*, of tide,
 State of sky,
 Temperature of air, *48.*
 " surface of water, *41.5*
 " at depth of fathoms,
 " of bottom, *41.5*
 Depth, in fathoms, *11-16.*
 Nature of bottom, *br. m., sh.*
 Direction of surface current,
 drift Force of surface current, *S. 1/2 m*
 Direction of bottom current,
 Force of bottom current,
 Name of vessel,
 To what service attached,
 Name and rank of commanding officer,
 Name and position of observer,

REMARKS.

[The following text is extremely faint and illegible, appearing to be a list of observations or a log. It contains several lines of text that are difficult to decipher, but some words like "Temperature", "Wind", and "Direction" are faintly visible.]

U.S. DEPARTMENT OF COMMERCE
BUREAU OF MARINE RECORDS

TEMPERATURE RECORD.

Instrument used, *Trawl*
 Current number of observation, *1062*
 Date, *March 2, 1882*
 Locality, *Chesapeake Bay*
 Bearings, *Smith's Pt Light*
S. W. 1/2 S. , 1 1/4 m
 Time of day, *11.40 am* of tide.
 State of sky,
 Temperature of air, *48.*
 " surface of water, *41.5*
 " at depth of fathoms,
 " of bottom, *41.5*
 Depth, in fathoms, *16 - 9 1/2*
 Nature of bottom, *br. m. sh*
 Direction of surface current,
 Drift
 Force of surface current, *S. x W. 1 m*
 Direction of bottom current,
 Force of bottom current,
 Name of vessel,
 To what service attached,
 Name and rank of commanding officer,
 Name and position of observer.

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Rake Bridge

Current number of observation,

1063.

Date,

Mar. 6, 1882

Locality,

Chesapeake Bay

Bearings,

S. Pt. Tangier Id.

N. x E $3\frac{1}{4}$ E, 2 1/4 m

Time of day,

9.35 ; of tide,

State of sky,

Temperature of air,

50,

"

surface of water,

44

"

at depth of

fathoms,

"

of bottom,

42.

Depth, in fathoms,

10.

Nature of bottom,

bn. m. sh.

Direction of surface current,

Force of surface current,

N. x E, 1/2 m

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, *Rake Bridge*
Current number of observation, *1064,*
Date, *Mar. 6, 1882*
Locality, *Chesapeake Bay*
Bearings, *S. Pt. Tangier Id.*
N. N. W. 1 mile
Time of day, *2.17 P.M.*; of tide,
State of sky,
Temperature of air, *50,*
" surface of water, *42*
" at depth of fathoms,
" of bottom, *42*
Depth, in fathoms, *20 - 9 1/2*
Nature of bottom, *br. m. sh.*
Direction of surface current,
Force of surface current, *Swift. N. E. x E. 1/2*
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, *Trawl*
Current number of observation, *1065*
Date, *Mar. 6, 1882*
Locality, *Chesapeake Bay*
Bearings, *Cherry Stone Lt*
E. x N. 2 miles
Time of day, *9 am.* of tide,
State of sky,
Temperature of air, *56.*
" surface of water, *45,*
" at depth of fathoms,
" of bottom, *46.5*
Depth, in fathoms, *25-12*
Nature of bottom, *sand,*
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

REMARKS.

REMARKS.

TEMPERATURE RECORD.

Instrument used, *Trawl*
Current number of observation, *1066.*
Date, *Mar. 6, 1882*
Locality, *Chesapeake Bay*
Bearings, *Cherrystone Lt.*
E. x S. 3 miles S.
Time of day, *9, 20* of tide, *—*
State of sky,
Temperature of air, *56.*
" surface of water, *45.*
" at depth of fathoms,
" of bottom, *45.*
Depth, in fathoms, *12 - 25 1/2*
Nature of bottom, *Sand*
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, *Trawl*
Current number of observation, *1067.*
Date, *Mar. 6, 1882*
Locality, *Chesapeake Bay*
Bearings, *Cherry stone Pt. L.*
S. E. x E. 1/4 E. 3 miles.
Time of day, *9.40 a.m.*
State of sky,
Temperature of air, *56.*
" surface of water, *45.*
" at depth of fathoms,
" of bottom, *47*
Depth, in fathoms, *12-20.*
Nature of bottom, *(mud)*
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

REMARKS.

UNRECORDED COPY

TEMPERATURE RECORD.

Instrument used, *Trawl*
Current number of observation, *1068.*
Date, *Mar. 11, 1882*
Locality, *Chesapeake Bay,*
Bearings, *Kent Id. Thus Pt Light.*
W. S. W. 1/4 W. 2 miles
Time of day, *9.50 A.M.*
State of sky,
Temperature of air, *49*
" surface of water, *42*
" at depth of fathoms,
" of bottom, *41,*
Depth, in fathoms, *14-9*
Nature of bottom, *bk. m.*
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, *Trawl*
Current number of observation, *1069*
Date, *Mar. 11, 1882*
Locality, *Chesapeake Bay*
Bearings, *Kent Id. Thos Pt Light*
S. W. 3/4 W., 2 1/4 m.
Time of day, *10, 20*; of *day*
State of sky, */*
Temperature of air, *57.*
" surface of water, *42*
" at depth of _____ fathoms,
" of bottom, *40*
Depth, in fathoms, *18*
Nature of bottom, *brn*
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, *Trawl*
Current number of observation, *1070.*
Date, *Mar. 11, 1882*
Locality, *Chesapeake Bay*
off Kent Id. Thos. Pt. Lt.
W. x S. 2 miles
Time of day, *10.45*; of tide, *low*
State of sky,
Temperature of air, *45.*
" surface of water, *42*
" at depth of fathoms,
" of bottom, *42*
Depth, in fathoms, *15-10*
Nature of bottom, *bk m*
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, *Trawl*
Current number of observation, *1071,*
Date, *Mar. 11, 1882*
Locality, *Chesapeake Bay*
off Kent to Ches Pt Lt.
W. N. W., 1/2 W., 2 1/4 m
Time of day, *11.22;* of tide, *ebb*
State of sky,
Temperature of air, *49.*
" surface of water, *42*
" at depth of fathoms,
" of bottom, *40.*
Depth, in fathoms, *14-13.*
Nature of bottom, *bk. m.*
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

REMARKS.

[The following text is extremely faint and illegible due to low contrast and blurring. It appears to be a series of lines of text, possibly a list or a set of notes, but the specific content cannot be discerned.]

TEMPERATURE RECORD.

Instrument used,

Rake Breeze

Current number of observation,

1072

Date,

Mar 11, 1882

Locality,

Chesapeake Bay

Bearings,

*Kent Id. Flors Pt. Lt.,
N. W. 2 1/4 miles.*

Time of day, *12, m.*; of tide.

State of sky,

Temperature of air,

50.

“ surface of water, *42*

“ at depth of fathoms,

“ of bottom, *42*

Depth, in fathoms,

16.

Nature of bottom,

bk. m.

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

[The following text is extremely faint and illegible due to low contrast and blurring. It appears to be a list of observations or a log of events.]

TEMPERATURE RECORD.

Instrument used, *Rohrer's*
Current number of observation, *1073*,
Date, *Mar. 11, 1882*
Locality, *Chesapeake Bay*
off Kent Id. Tho' Pt Lt.
N. W. x N. 2 1/2 m
Time of day, *12.25*; of tide, *low*
State of sky,
Temperature of air, *50*.
" surface of water, *42*
" at depth of fathoms,
" of bottom, *42*.
Depth, in fathoms, *13*.
Nature of bottom, *fine sh*
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1074

Date,

Mar. 11, 1882

Locality,

Chesapeake Bay

Bearings,

off Kent Id, Thos Pt Lt,

N. x W. 42 W. 4 ³/₄ m

Time of day,

1:10 P.M. of tide.

State of sky,

Temperature of air,

57.

"

surface of water,

43

"

at depth of

fathoms,

"

of bottom.

41.

Depth, in fathoms,

18-11.

Nature of bottom,

bl. m.

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1075.

Date,

Mar. 13, 188

Locality,

Chesapeake Bay

Bearings,

Sandy Pt. Light,

N. x W. $\frac{1}{4}$ W. 3 $\frac{1}{2}$ m.

Time of day,

9.45; of tide,

State of sky,

Temperature of air,

45,

"

surface of water,

43,

"

at depth of

fathoms,

"

of bottom,

40.

Depth, in fathoms,

14-11.

Nature of bottom,

mud.

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer.

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1076.

Date,

Mar, 13, 1882

Locality,

Chesapeake Bay

Bearings,

Sandy Pt. Light

St. x W. 44 W. ~~SE~~

Time of day,

10.15 ~~for tide~~

State of sky,

Temperature of air,

45,

"

surface of water,

43,

"

at depth of

fathoms,

"

of bottom,

40.

Depth, in fathoms,

15,

Nature of bottom,

mixed,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer.

Name and position of observer.

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1077.

Date,

Mar. 23, 1877

Locality,

Chesapeake Bay

Bearings,

Sandy Pt Light.

N. W. 44 W.

2 1/2 miles

Time of day,

10.55 am

of tide.

State of sky,

Temperature of air,

49

"

surface of water,

43

"

at depth of

fathoms,

"

of bottom,

40

Depth, in fathoms,

11-12

Nature of bottom,

mud

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide.

State of sky,

Temperature of air,

“ surface of water,

“ at depth of _____ fathoms,

“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current.

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____
Current number of observation, _____
Date, _____
Locality, _____
Bearings, _____

Time of day, _____ ; of tide, _____
State of sky, _____
Temperature of air, _____
 " surface of water, _____
 " at depth of _____ fathoms, _____
 " of bottom, _____
Depth, in fathoms, _____
Nature of bottom, _____
Direction of surface current, _____
Force of surface current, _____
Direction of bottom current, _____
Force of bottom current, _____
Name of vessel, _____
To what service attached, _____
Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

[Faint, illegible text, likely bleed-through from the reverse side of the page]

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide.

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current.

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation.

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom.

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

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Temperature of air,

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“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

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“ of bottom.

Depth, in fathoms,

Nature of bottom,

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Depth, in fathoms,

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Current number of observation,

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Time of day, ; of tide,

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Depth, in fathoms,

Nature of bottom,

Direction of surface current,

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Force of bottom current,

Name of vessel,

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REMARKS.

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Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky*, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

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Depth, in fathoms,

Nature of bottom,

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To what service attached,

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REMARKS.

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TEMPERATURE RECORD.

Instrument used,

Current number of observation.

Date,

Locality,

Bearings,

Time of day, ; of tide.

State of sky,

Temperature of air,

“ surface of water,

“ at depth of . fathoms,

“ of bottom,

Depth, in fathoms.

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

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TEMPERATURE RECORD.

Instrument used,

Current number of observation.

Date,

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Time of day, ; of tide.

State of sky,

Temperature of air,

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“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

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Bearings,

Time of day, ; of tide,

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“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

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Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

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“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

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To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

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TEMPERATURE RECORD.

Instrument used, _____

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Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

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“ of bottom, _____

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Force of bottom current, _____

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Depth, in fathoms,

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Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Depth and direction of surface

Depth and direction of intermediate surface

Depth and direction of bottom

Depth of surface

Depth of surface

Direction of surface

Depth of surface

Direction of surface

Depth of surface

Depth of surface

of surface

of depth of surface

depth of surface

Direction of surface

Depth of surface

Depth of surface

of surface

Direction

Direction

Direction

Direction of surface

Direction of surface

ДІВІДЕНІВІ ПІСЬМО

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

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“ of bottom,

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Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Under the heading of operations

Under the heading of administration

Under the heading of

Under the heading of

Under the heading of

Under the heading of

Under the heading of

Under the heading of

Under the heading of

Under the heading of

Under the heading of

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TEMPERATURE RECORD