

ORIGINAL LOG BOOK OF THE "FISH BANK"

UNITED STATES FISH COMMISSION

STATION RECORDS

Numbers 815 to 858

Handwritten notes:
S + H
S + H

$S + H \rightarrow 2H_2 + \frac{1}{2} O_2$
 $2H_2 + \frac{1}{2} O_2$

5 10 20 30 40 50

Book No 2

1880

23

2

All hearings in this
book are Magnetic
Dr Van Klief

"Oyster Raft" H. Sledge

TEMPERATURE RECORD.

Instrument used, *n 3*
Current number of observation, *815*
Date, *Aug 18 1880*
Locality, *Atlantic Ocean -*
Bearings, *Bobok Island Light - N. 70 x N -*
17 miles
Time of day, *2.15* ; of tide,
State of sky, *b c*
Temperature of air, *72*
" surface of water, *72* (*40 137*)
" at depth of *5* fathoms, *71* (*10 of 56*) (*20 of 49*)
" of bottom, *48* (*102555*)
Depth, in fathoms, *29*
Nature of bottom, *sand*
Direction of ~~surface current~~, *min S*
Force of ~~surface current~~, " *2*
Direction of ~~bottom current~~, *drift S W*
drift
Force of ~~bottom current~~, " *1/4 mile*
Name of vessel, *Fish Hawk*
To what service attached, *U.S.C.*
Name and rank of commanding officer,
Lt J. L. Lawrence
Name and position of observer,

Thos. Van Fleet M.D.
#

REMARKS.

Liparis
Merluccius tinnearius juv. ex Sect. Tinnicant.

Alredy

TEMPERATURE RECORD.

Instrument used, *73*

Current number of observation, *516*

Date, *Aug - 23^d*

Locality, *Narragansett Bay -*

Bearings, *Point's Reef Light Ship E $\frac{3}{4}$ S.*

2 $\frac{3}{4}$ miles

Time of day, *10.25⁻* ; of tide,

State of sky, *clear*

Temperature of air, *71*

" surface of water, *69* (*42007*)

" at depth of *2* fathoms,

" of bottom, *66* (*42006*)

Depth, in fathoms, *8 $\frac{1}{2}$*

Nature of bottom, *sand*

Direction of surface current, *near S*

Force of surface current, " *2*

Direction of bottom current, *rough ~~near S~~ SE*

Force of bottom current, " *$\frac{1}{4}$ mile*

Name of vessel, *Fish Hawk*

To what service attached, *U S F C*

Name and rank of commanding officer,

Lt J L Larnen

Name and position of observer,

McDonald Crit M.H.

REMARKS.

816-

Dryopteris -

Pteris caudata -

Hedge

TEMPERATURE RECORD.

Instrument used, *N 3*
Current number of observation, *817*
Date, *Aug 23*
Locality, *Navy Annex Bay -*
Bearings, *Beantons Reef Light Ship E 1/2 N*
3 miles -
Time of day, *11 am* ; of tide,
State of sky, *Clear*
Temperature of air, *72*
" surface of water, *68* (*40000*)
" at depth of fathoms,
" of bottom, *63* (*42555*)
Depth, in fathoms, *10*
Nature of bottom, *Sand*
Direction of ~~surface current~~, *Wind S*
Force of ~~surface current~~, " *2*
Direction of ~~bottom current~~, *Drift N 75 E*
Force of ~~bottom current~~, " *1/4 mile*
Name of vessel, *Fish Hawk*
To what service attached, *U.S.F.C.*
Name and rank of commanding officer,
H. L. ...
Name and position of observer,

John A. ... M.S.

REMARKS.

817-

Same channel as 816-

Thin lacustrine flora - many.

~~Temperature Record~~
TEMPERATURE RECORD.

Instrument used. *N 3*
Current number of observation. *518*
Date. *Aug 23rd*
Locality. *Narragansett Bay*
Bearings. *From the Ruffed Grouse 2 1/2 mi*
3 1/4 miles
Time of day. *11.20* ; of tide.
State of sky. *Clear*
Temperature of air. *72*
" surface of water. *68* (*40007*)
" at depth of fathoms,
" of bottom. *63-* (*42066*)
Depth, in fathoms. *9 1/2*
Nature of bottom. *sand*
Direction of surface current. *Wind S*
Force of surface current. " *2*
Direction of bottom current. *Drift SE*
Force of bottom current. " *1/4 mile*
Name of vessel. *Fish Hawk*
To what service attached. *U. S. F. C.*
Name and rank of commanding officer.
Lt J. L. ...
Name and position of observer.

W. S. ...

REMARKS.

Trawl

TEMPERATURE RECORD.

Instrument used, *T. T.*
Current number of observation, *819*
Date, *Aug 23 2*
Locality, *Naragansett Bay -*
Bearings *South End Hope Point S E 1/2 E*
1/2 mile
Time of day, *1 pm*; of tide,
State of sky, *Clear*
Temperature of air, *74*
" surface of water, *73* (*40207*)
" at depth of fathoms,
" of bottom, *70* (*42636*)
Depth, in fathoms, *6*
Nature of bottom, *mud*
Direction of surface-current, *none* *SS W*
Force of surface-current, " *3*
Direction of bottom-current, *light* *WS W*
Force of bottom-current, " *1/4 mile*
Name of vessel, *Fish Hawk*
To what service attached, *USFC*
Name and rank of commanding officer,
Asst. Lieut. Comdr.
Name and position of observer,

McDouglit MD

REMARKS.

The mud of the slope near the monument
 No 42866 was washed down water
 the same in the side of the river
 with other mud (but) little
 sediment - found in for the
 water the secondary this day for
 Linnæus Amphibolus -

- Used No 4287 for slope.
Tentaculus argyrops
Leucoplaxonechis americana
Lophopeltia maculata
Leucophaea sarcinosa
Leptocion rugata var
Englemanni vittata
Palaemonetes americana

Yours
TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *320*

Date, *Aug 23rd*

Locality, *Maryansett Bay*


Bearings, *Small boat Dept. No. NVE
1/4 mile*

Time of day, *1.40 p.m.* of tide.

State of sky, *Clear*

Temperature of air, *76*

" surface of water, *72*

(42665)


" at depth of fathoms,

" of bottom, *70*

(40007)
~~*(42665)*~~

Depth, in fathoms, *5 1/2*

Nature of bottom, *Mud*

Direction of ~~surface~~ current, *Wind* *SSW*

Force of ~~surface~~ current, " *4*

Direction of ~~bottom~~ current, *Drift* *N x S*

Force of ~~bottom~~ current, " *1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *U.S. Fish Com.*

Name and rank of commanding officer,

Asst. Comdr. U.S.N.

Name and position of observer,

J. C. Ward, Lieut. U.S.N.


REMARKS.

St. Augustine's Island
Sancti Augustini Insulae
Sancti Augustini

Trawl

TEMPERATURE RECORD.

Instrument used, 23

Current number of observation, 821

Date, Aug 23

Locality, Narragansett Bay

Bearings, ~~...~~ Island, N x E
1/2 mile

Time of day, 2.15 PM; of tide,

State of sky, Clear

Temperature of air, 78

" surface of water, 72

(42666
~~42667~~)

" at depth of fathoms,

" of bottom, 70

(42667
~~42668~~)

Depth, in fathoms, 5

Nature of bottom, Mud

Direction of ~~surface~~ current, wind S S W

Force of ~~surface~~ current, " 4

Direction of ~~bottom~~ current, drift S W

Force of ~~bottom~~ current, " 1/4 mile

Name of vessel, Fish Hawk

To what service attached, U.S.F.C.

Name and rank of commanding officer,

Lt Z. L. Tanner

Name and position of observer,

H. C. Van Dine M.D.
F.H.

REMARKS.

22.
.....

Frank

TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *822*

Date, *July 23*

Locality, *Marryagee with 1 day -*

Bearings, *Point and Hope Island NE*
1/8 mile

Time of day, *3 p.m.*; of tide,

State of sky, *clear*

Temperature of air, *78*

" surface of water, *71* (*42606*
~~*(42607)*~~)

" at depth of _____ fathoms,

" of bottom, *70* (*42607*
~~*(42606)*~~)

Depth, in fathoms, *4 1/2*

Nature of bottom, *Sand*

Direction of surface current, *Wind SSW*

Force of surface current, " "

Direction of bottom current, *Drift W*

Force of bottom current, " *1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *USAC*

Name and rank of commanding officer,

A. J. L. Lamon

Name and position of observer,

W. W. S. S. S.

REMARKS.

872. *Pterodroma maculosa*
glaucophaea maculosa
glaucophaea maculosa
glaucophaea maculosa
glaucophaea maculosa
glaucophaea maculosa

H. S. Sledge

TEMPERATURE RECORD.

Instrument used. *N 3*
Current number of observation. *823*
Date. *Aug 27*
Locality. *Atlantic Ocean*
Bearings. *North light - Mark Island. 1 1/2 S*
1 1/2 miles
Time of day. *12-35* ; of tide.
State of sky. *b.c.*
Temperature of air. *74*
" surface of water. *63* (~~46415~~)
" at depth of *5* fathoms. *63*. (*10f-63*)
" of bottom. *60* (~~46417~~)
Depth, in fathoms. *15 1/2*
Nature of bottom. *sand*
Direction of surface current. *Wind W*
Force of surface current. " *3*
Direction of bottom current. *Drift NW*
Force of bottom current. " *1/4 mile*
Name of vessel. *USS Hawk*
To what service attached. *USFC*
Name and rank of commanding officer.
Prof L. L. Loomis
Name and position of observer.

Thos. Sledge

Travel

TEMPERATURE RECORD.

Instrument used.

W 3

Current number of observation.

824

Date.

Aug 24

Locality.

Atlantic Ocean

Bearings. *North Light Rock Island - S 22 1/4 W*
1 mile -

Time of day. *12.50* ; of tide.

State of sky. *Clear -*

Temperature of air. *74*

" surface of water. *65*

(464001)
~~*(42666)*~~

" at depth of *5* fathoms. *63 (10 f 63)*

" of bottom. *67*

(40507)
~~*(42666)*~~

Depth, in fathoms. *13*

Nature of bottom.

Sand

Direction of ~~surface~~ current.

W ind

W

Force of ~~surface~~ current.

"

3

Direction of ~~bottom~~ current.

Drift

W W

Force of ~~bottom~~ current.

"

1/4 mile

Name of vessel.

Fish Hawk

To what service attached.

U.S.F.C.

Name and rank of commanding officer.

Name and position of observer.

H. J. Lawrence

W. W. White

Otter Trawl

TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *820-*

Date, *Aug 24*

Locality, *Atlantic Ocean -*

Bearings, *North Light Rock Island. N 57 3/4 W*
1 1/4 miles

Time of day, *1.30 pm*; of tide.

State of sky, *Clear -*

Temperature of air, *73*

" surface of water, *67* (*46409*)

" at depth of *5* fathoms, *61*

" of bottom, *60* (*46007*)
(*42666*)

Depth, in fathoms, *13.*

Nature of bottom, *Sand.*

Direction of surface current, *Drift N 2 W*

Force of surface current, " *4*

Direction of bottom current, *Drift N W*

Force of bottom current, " *1/2 mile*

Name of vessel, *Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer,

Lt J. L. Lawrence

Name and position of observer,

J. Van Fleet M.D.

REMARKS.

Chironomus salinarius forma
shufeldti G. & S.
Chironomus salinarius
shufeldti G. & S.
Chironomus salinarius
shufeldti G. & S.

825 *Chironomus* sp.
Chironomus dentatus
Lophopsetta maculata
Chironomus salinarius
Chironomus salinarius

Sledge

TEMPERATURE RECORD.

Instrument used, *N 3*
Current number of observation, *826*
Date, *Aug 24*
Locality, *Atlantic Ocean -*
Bearings, *North Light Black Island - N N W $\frac{1}{2}$ W*
2 1/2 miles.
Time of day, *2.40* ; of tide,
State of sky, *Clear*
Temperature of air, *73*
" surface of water, *67* (*46400*)
" at depth of *5* fathoms, *66*
" of bottom, *57* (*40007*)
Depth, in fathoms, *22*
Nature of bottom, *Sand*
Direction of ~~surface current~~, *Wind* *2*
Force of ~~surface current~~, *Wind* *3*
Direction of ~~bottom current~~, *Drift* *SS W.*
with depth -
Force of ~~bottom current~~, *1/2 mile*
Name of vessel, *Fish Hawk*
To what service attached, *U.S.C.*
Name and rank of commanding officer,
Lt J. L. Sauer - U.S.N.
Name and position of observer,

Dr. Van Fleet U.S.N.

REMARKS.

Blake
~~Agassiz~~ *Trawl*

TEMPERATURE RECORD.

Instrument used, *W3*

Current number of observation, *827*

Date, *Aug 24*

Locality, *Atlantic Ocean*

Bearings, *North Light Buoy Island or NW 1/2 22*
2 1/2 miles

Time of day, *3.05* ; of tide,

State of sky, *Clear*

Temperature of air, *71*

" surface of water, *67* (*464102*)

" at depth of *5* fathoms, *66*

" of bottom, *57* (*40007*)

Depth, in fathoms, *20 1/2*

Nature of bottom, *Sand*

Direction of ~~surface current~~, *Wind S*

Force of ~~surface current~~, *Wind 3*

Direction of ~~bottom current~~, *Wind*

Force of ~~bottom current~~, *Wind*

Name of vessel, *U.S. Fish Com.*

To what service attached, *U.S. F.C.*

Name and rank of commanding officer,

W3 L Luman
Name and position of observer,

McWhorter WFO

REMARKS.

827. *Phycis tenuis*.
Raid Emmaea.

Bridge

TEMPERATURE RECORD.

Instrument used, *N Z*

Current number of observation, *828*

Date, *Aug 25*

Locality, *Atlantic Ocean*

Bearings, *Northwest of the island S 77 x 77 $\frac{3}{4}$ W*
2 1/2 miles

Time of day, *12.40* ; of tide,

State of sky, *stormy*

Temperature of air, *70*

" surface of water, *66* (*46410*)

" at depth of fathoms,

" of bottom, *60* (*40007*)

Depth, in fathoms, *15*

Nature of bottom, *Sand*

Direction of ~~surface current~~, *Wind NNE*

Force of ~~surface current~~, *Wind 6*

Direction of ~~bottom current~~, *Drift ENE*

sets of drift
Force of ~~bottom current~~, *1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *U.S. Fish Com.*

Name and rank of commanding officer,
Lt Z L Lawson

Name and position of observer,

Thos. W. ...

Chironomus -
Streblospio -
 Copepod. Tubicolites -
 Small sandy detritus -
 few small shells -

Bridge

TEMPERATURE RECORD.

Instrument used,

N 3

Current number of observation,

829

Date, *Aug 27*

Locality, *Off Sabromet River -*

Bearings, *Comm. out Rock N 77° N*

1/4 Mile

Time of day, *10.45* ; of tide,

State of sky, *Clear*

Temperature of air, *63.*

" surface of water, *66*

(42666)
~~*(46444)*~~

" at depth of fathoms,

" of bottom, *65*

(40007)

Depth, in fathoms, *9*

Nature of bottom, *Rocky - Gravel + stones*

Direction of ~~surface~~ current, *Wind East.*

Force of ~~surface~~ current, *mod &*

Direction of ~~bottom~~ current, *Drift. S x E*

Force of ~~bottom~~ current, *with drift by tide*

Name of vessel, *Fish Hawk*

To what service attached, *US FC*

Name and rank of commanding officer,

U 3 L Lamm

Name and position of observer,

J. W. ...

REMARKS.

... ..

... ..

Ledge

TEMPERATURE RECORD.

Instrument used, *U Z*

Current number of observation, *830*

Date, *Aug 27*

Locality, *off, ... of ...*

Bearing, *... 1/4 mile*

Time of day, *11. 15* ; of tide.

State of sky, *clear*

Temperature of air, *44*

" surface of water, *66* (*42666*)

" at depth of _____ fathoms.

" of bottom, *65* (*40007*)

Depth, in fathoms, *10 1/2* (*40007*)

Nature of bottom, *Sand*

Direction of surface current, *Wind E*

Force of surface current, *Wind 2*

Direction of bottom current, *Drift NE 1/2 E*

Force of bottom current, *1/4 mile*

Name of vessel, *U.S. Fish Com.*

To what service attached, *W R & C*

Name and rank of commanding officer, *Lt. L. L. ...*

Name and position of observer,

J. C. Van ...

REMARKS.

Uva-ursi
Linnaea borealis
Eryngium yuccifolium
Cotoneaster japonicus

H. Redlog

TEMPERATURE RECORD.

Instrument used,

T T

Current number of observation,

831

Date, *Aug 27.*

Locality,

Lower Mt. Pease.

Bearings,

Trench and Sound followed

S 71 1/4 W

350 yards.

Time of day, *12.30 pm*; of tide,

State of sky,

Clear.

Temperature of air,

65

" surface of water, *71*

(42666)

" at depth of _____ fathoms,

" of bottom, *71*

(4000?)

Depth, in fathoms, *6*

Nature of bottom,

Black Mud

Direction of ~~surface current~~,

mid SE

Force of ~~surface current~~,

mid 1

Direction of ~~bottom current~~,

slight S

Force of ~~bottom current~~,

slight S 1/4 mile

Name of vessel,

Fish Hawk

To what service attached,

USFC

Name and rank of commanding officer,

Lt. J. L. Linn

Name and position of observer,

H. C. Van der Weide

REMARKS.

Tricula bozziana
minima at *truncata*
Xydia minutula

H. H. Hodge
TEMPERATURE RECORD.

Instrument used. *N 3*
Current number of observation. *832*

Date, *May 27*

Locality, *Bahamas Reef*

Bearings, *N. end Gould Island West.*

150 fathoms

Time of day, *12.45* ; of tide.

State of sky, *clear*

Temperature of air, *70*

" surface of water, *71* (42666)

" at depth of fathoms,

" of bottom, *71* (40007)

Depth, in fathoms, *69*

Nature of bottom, *Blk. Mud -*

Direction of ~~surface current~~, *Force S E*

Force of ~~surface current~~, *Mud 1*

Direction of ~~bottom current~~, *Slip S*

slip Slip
Force of ~~bottom current~~, *1/4 m -*

Name of vessel, *Fish Hawk*

To what service attached, *US F C*

Name and rank of commanding officer,

H. H. Hodge

Name and position of observer,

H. H. Hodge
H. H. Hodge

832

REMARKS.

Prime case 831

Seaton Parker Knowledge

TEMPERATURE RECORD.

Instrument used, *n z*
 Current number of observation, *833*
 Date, *Aug 27*
 Locality, *Northwest Indian -*
 Bearings, *South end of Ed. Island - 20.*
100 fathoms
 Time of day, *1 pm* ; of tide.
 State of sky, *Clear*
 Temperature of air, *70*
 " surface of water, *71* (*42666*)
 " at depth of _____ fathoms,
 " of bottom, *71* (*42667*)
 Depth, in fathoms, *6 1/2*
 Nature of bottom, *Sand -*
 Direction of ~~surface~~ current, *None SE*
 Force of ~~surface~~ current, *None 1*
 Direction of ~~bottom~~ current, *Depth 5*
with depth *1/4 mile*
 Force of ~~bottom~~ current,
 Name of vessel, *Seaton Parker*
 To what service attached, *USFC*
 Name and rank of commanding officer,
Lt J L L...
 Name and position of observer,

J. C. Maudslayi
msk

REMARKS.

None in the morning

Chester Luke Sledge -

TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *834-*

Date, *Aug 27*

Locality, *Palomares River -*

Bearings, *McGregor's Point N. S. W.*

3/4 mile

Time of day, *1.30* ; of tide,

State of sky, *Clear*

Temperature of air, *63*

" surface of water, *73* (4266)

" at depth of fathoms,

" of bottom, *71* (4267)

Depth, in fathoms, *11*

Nature of bottom, *Sand, -*

Direction of ~~surface~~ ~~current~~, *Wind* *E*

Force of ~~surface~~ ~~current~~, *wind* *2*

Direction of ~~bottom~~ ~~current~~, *with* *N. E*

with *surface*
Force of ~~bottom~~ ~~current~~, *1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *U. S. C*

Name and rank of commanding officer,

N. J. S. ...

Name and position of observer,

Ch. ...

REMARKS.

Munla pratensis
iridulata lacunata
Lolium nemorosum
Lycopodium canaliculatum
Polygonum convolvulifolium
Urtica dioica
Urtica
Cistaceae - Gleditsia
Euphorbia sp. nov.
do longicaulis
do
Melastoma latifolium

Chester Ruben Hodge
TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *835*

Date, *Aug 27*

Locality, *Doakomet River.*

Bearings, *The bridge about N 1/4 E -
1 1/4 miles*

Time of day, *1.30* ; of tide.

State of sky, *clear*

Temperature of air, *68*

" surface of water, *73* (*42666*)

" at depth of fathoms,

" of bottom, *71* (*4777*)

Depth, in fathoms, *3 1/2*

Nature of bottom, *shells*

Direction of ~~surface~~ current, *wind* *SE*

Force of ~~surface~~ current, *wind* *2*

Direction of ~~bottom~~ current, *drift* *N*

Force of ~~bottom~~ current, *rich drift* *1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *USFC*

Name and rank of commanding officer,

W J L Lamm

Name and position of observer,

H. C. Van Vleet M.A.
11

REMARKS.

Reptilina *dentata*
Limnaea *canaliculata*
Asperimus *lanceolatus* 534

Chester Lake Bridge

TEMPERATURE RECORD.

Instrument used. *n z*

Current number of observation. *836*

Date. *Aug 27*

Locality. *Apawank River*

Bearing. *Black Point - N 1/4 S.
1/2 Mile*

Time of day. *2.25* ; of tide.

State of sky. *Clear*

Temperature of air. *66*

" surface of water. *71* *42666*

" at depth of fathoms.

" of bottom. *71* *40737*

Depth, in fathoms. *5*

Nature of bottom. *Sand.*

Direction of ~~surface current~~. *Wind - SSE*

Force of ~~surface current~~. *do 2*

Direction of ~~bottom current~~. *Depth SSE*

~~Force of bottom current~~. *1/4 mile*

Name of vessel. *Fish Hawk*

To what service attached. *W S F C*

Name and rank of commanding officer.

H. L. Lawrence

Name and position of observer.

F. C. Van Vleet M. S.

REMARKS.

Sord. Hemmit Colles
Quilua Yunita
Enzattia Americana
Phyllogonius radiatus
Libinia canalicularia.

Yacht

TEMPERATURE RECORD.

Instrument used, *n 3*

Current number of observation, *837*

Date, *Aug 27*

Locality, *Sakonnet River*

Bearings, *Black Point N 17 x 17 W 1/2 S 1/2*
1/2 mile

Time of day, *2.45* ; of tide.

State of sky, *Clear*

Temperature of air, *69*

" surface of water, *71* *42666*

" at depth of _____ fathoms,

" of bottom, *41* *41207*

Depth, in fathoms, *5*

Nature of bottom, *Sand*

Direction of ~~surface~~ current, *Wind* *SSE*

Force of ~~surface~~ current, *do* *2*

Direction of ~~bottom~~ current, *Drift* *S+E*

Weak drift
Force of ~~bottom~~ current, *1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer,
LT J. Lawrence

Name and position of observer,

J. C. Van Fleet U.S.N.

Yard

TEMPERATURE RECORD.

Instrument used. *n 3*

Current number of observation, *834*

Date, *Aug 27*

Locality, *Sakonnet River*

Bearing, *North-west 75° W*

1 mile

Time of day, *3 15* : of tide.

State of sky, *Clear*

Temperature of air, *66*

" surface of water, *70* (42666)

" at depth of fathoms.

" of bottom, *68* (40007)

Depth, in fathoms, *5 1/2*

Nature of bottom, *Sand*

Direction of ~~surface current~~, *Wind SSE*

Force of ~~surface current~~, *do 2*

Direction of ~~bottom current~~, *Drift S x E*

Drift Drift
Force of ~~bottom current~~, *1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *USFC*

Name and rank of commanding officer,

Lt J L Lannon

Name and position of observer,

Dr F. C. HawKitch

Bridge

TEMPERATURE RECORD.

Instrument used, *N Z*
Current number of observation, *839*
Date, *Aug 31st*
Locality, *Norway's Bay*
Bearings, *Numpings* *NW 1/2 N*
300 fathoms
Time of day, *9.50* ; of tide.
State of sky, *bc*
Temperature of air, *67*
" surface of water, *67* *(42656)*
" at depth of *5* fathoms, *62. (10 f - 65)*
" of bottom, *61* *(42657)*
Depth, in fathoms, *27 1/2*
Nature of bottom, *Gravel*
Direction of ~~surface~~ current, *Wind N N E*
Force of ~~surface~~ current, *do 2*
Direction of ~~bottom~~ current, *with N W*
with strength
Force of ~~bottom~~ current, *1/4 mile*
Name of vessel, *Fish Hawk*
To what service attached, *U.S.F.C.*
Name and rank of commanding officer,
Lt J L Lawrence
Name and position of observer,

Asst F.C. Van Vliet

REMARKS.

Chrysomelid

" *serripes*

Regia strigata

Byrrhus subvittatus

Chrysomelid striatum

Chrysomelid serripes

Chrysomelid strigata

Sledge

TEMPERATURE RECORD.

Instrument used, *N Z.*

Current number of observation, *840*

Date, *Aug 31*

Locality, *Thames est. Eng*

Bearings, *Dumfries. N x N $\frac{1}{2}$ W*
100 yards

Time of day, *10.05* ; of tide,

State of sky, *b c*

Temperature of air, *67*

" surface of water, *67* (*42666*)

" at depth of *5* fathoms, *65* (*10 $\frac{1}{2}$ 65*)

" of bottom, *61* *4007*

Depth, in fathoms, *20 $\frac{1}{2}$*

Nature of bottom, *Gravel*

Direction of ~~surface current~~, *mod NNE*

Force of ~~surface current~~, *" 2*

Direction of ~~bottom current~~, *drift*

~~Force of bottom current~~, *drift drift*

Name of vessel, *Fish Hawk*

To what service attached, *U S F C*

Name and rank of commanding officer,

Lt Z L Lumen

Name and position of observer,

Mr F C Rose V Lieut

565

REMARKS.

2000 2 2 57

Sledge

TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *841*

Date, *Aug-31*

Locality, *Manning's Bay*

Bearings, *Point Island Light. N E 1/2 E*

1/4 mile

Time of day, *10.45* ; of tide,

State of sky, *2 C*

Temperature of air, *68*

" surface of water, *67* (42066)

" at depth of *5* fathoms, *67* (10 of 65)

" of bottom, *60* (40007)

Depth, in fathoms, *21*

Nature of bottom, *Gravel*

Direction of surface current, *mid E N E*

Force of surface current, *do 2*

~~Direction of bottom current,~~ *S*

~~Force of bottom current,~~ *1/4 mile*

Name of vessel, *Trick Lancer*

To what service attached, *USFC*

Name and rank of commanding officer,

Lieut. J. L. Lumsden

Name and position of observer,

Sen. J. C. Van Kleeck

REMARKS.

Schizoclelea Powellii
Meloboris magnificatus

Alfred

TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *842*

Date, *Aug 31*

Locality, *Nancyannett Bay.*

Bearings, *Island Light ENE 1/2 E*

1/2 mile
Time of day, ~~*11 am*~~ ; of tide.

State of sky, *Clear*

Temperature of air, *69*

" surface of water, *67* (*4266*)

" at depth of fathoms.

" of bottom, *67* (*4277*)

Depth, in fathoms, *8*

Nature of bottom, *sand*

Direction of ~~surface~~ current, *Force East*

Force of ~~surface~~ current, *Force 2*

Direction of ~~bottom~~ current, *Force*

Force of ~~bottom~~ current,

Name of vessel, *Fish Hawk*

To what service attached, *W. F. C.*

Name and rank of commanding officer,

Lieut. J. S. Lawrence

Name and position of observer,

Wm. F. C. Van Fleet

L
REMARKS.

Trawl

TEMPERATURE RECORD.

Instrument used, *K 3*

Current number of observation, *843*

Date, *Aug 31 1880*

Locality, *Narragansett Bay -*

Bearing, *N. end of York Island N E $\frac{1}{2}$ E*
 $\frac{3}{4}$ mile

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

State of sky, *Clear*

Temperature of air, *69*

" surface of water, *69* (*42666*)

" at depth of *5* fathoms, *67*

" of bottom, *63* (*40777*)

Depth, in fathoms, *14 $\frac{1}{2}$*

Nature of bottom, *sand -*

Direction of ~~surface current~~, *mod East*

Force of ~~surface current~~, *do 3*

Direction of ~~bottom current~~, *drift N*

drift drift
Force of ~~bottom current~~, *$\frac{1}{4}$ mile*

Name of vessel, *Fish Hawk*

To what service attached, *U.S. F.C.*

Name and rank of commanding officer,

Lieut J. L. Lawrence

Name and position of observer,

Wm J. C. Van Hook

T. S. C.

TEMPERATURE RECORD.

Instrument used, *T 3*

Current number of observation, *844*

Date, *Aug 31*

Locality, *Bay of Islands*

Bearings, *N. End Bay of Islands S E 1/2 E*

1/4 mile

Time of day, *12.30* ; of tide.

State of sky, *Clear*

Temperature of air, *70*

" surface of water, *69* (42666)

" at depth of *5* fathoms, *67*

" at bottom, *63* (40527)

Depth, in fathoms, *11 1/2*

Nature of bottom, *Sand*

Direction of ~~surface~~ current, *ward E*

Force of ~~surface~~ current, *slow 2*

Direction of ~~bottom~~ current, *light W S W*

Dark light

Force of ~~bottom~~ current, *1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer,

Lieut. J. L. Lawrence

Name and position of observer,

Her. J. C. Van Fleet

Wauw

TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *545*

Date, *Aug 31*

Locality, *Murre Bay*

Bearings, *from the light N 1/2 W*
3/4 mile *7*

Time of day, *1 p m*; of tide.

State of sky, *Clear*

Temperature of air, *70*

" surface of water, *69* (*42666*)

" at depth of *5* fathoms, *67*

" at bottom, *64* (*40007*)

Depth, in fathoms, *14 1/2*

Nature of bottom, *Sand*

Direction of ~~surface~~ current, *mod N E*

Force of ~~surface~~ current, *do* *3*

Direction of ~~bottom~~ current, *Swift*

~~Force~~ *Swift*
~~Force~~ of ~~bottom~~ current.

Name of vessel, *Fish Hawk*

To what service attached, *U S F C*

Name and rank of commanding officer,

Lieut J L Larman

Name and position of observer,

Wm F C Van Vliet

REMARKS.

Went through a few small fish just after
 at about 10:30 and found a few
 immediate.

Uca sp. (green)

~~*Uca* sp. (green)~~

~~*Uca* sp. (green)~~

Pisces *Alburnus*

Astionus *lunulatus*

Regina *trilineata*

Leptocottus armatus

Chester Lake Bridge
TEMPERATURE RECORD.

Instrument used, *N 3*
Current number of observation, *846*
Date, *July 31*
Locality, *Northwest of Long*
Bearings, *Providence light N 42 3/4 E*
1 1/2 miles -
Time of day, *1.35* ; of tide.
State of sky, *Clear*
Temperature of air, *70*
" surface of water, *68* (42566)
" at depth of *5* fathoms, *67*
" of bottom, *63* (40007)
Depth, in fathoms, *14 1/2*
Nature of bottom, *Mud*
Direction of surface current, *Weak NE*
Force of surface current, *Weak 3*
Direction of bottom current, *Weak ENE*
Force of bottom current, *Weak 1/4 mile*
Name of vessel, *Fish Hawk*
To what service attached, *U S F C*
Name and rank of commanding officer,
Lieut J L Linneman
Name and position of observer,

Mr F. E. Van Kleeck

REMARKS.

At 10:30 AM
 visited the ...
 ...
 ...
 ...

Sound

TEMPERATURE RECORD.

Instrument used, *U 2*

Current number of observation, *847*

Date, *May 31*

Locality, *North of Cape Cod*

Bearing, *North by East* *N 45° E*
1 mile

Time of day, *2.15* ; of tide,

State of sky, *Clear*

Temperature of air, *70*

" surface of water, *68* (42666)

" at depth of *5* fathoms, *68*

" of bottom, *62* (40007)

Depth, in fathoms, *12 1/2*

Nature of bottom, *Mud*

Direction of ~~surface current~~, *Wind East*

Force of ~~surface current~~, *do 3*

Direction of ~~bottom current~~, *Wind NNE*

with drift
Force of ~~bottom current~~, *1/4 m*

Name of vessel, *Fish Hawk*

To what service attached, *U. S. F. C.*

Name and rank of commanding officer,

Lieut. J. L. Lawrence

Name and position of observer,

John Van Vleet

REMARKS.

847

At 10:30 AM. I saw a small
white bird (likely a gull) flying
over the water. It was very
near the water and I saw
it land on the water.
The sea.

Yarnal

TEMPERATURE RECORD.

Instrument used, *N 3*
Current number of observation, *848*
Date, *Aug 31*
Locality, *Norway coast, 13 mi*
Bearings, *Bishops Rock - East*
1/2 mile
Time of day, *3* ; of tide,
State of sky, *clear*
Temperature of air, *69*
" surface of water, *68* (*42655*)
" at depth of *5* fathoms, *68*, (*10 f 67*)
" of bottom, *62* (*42227*)
Depth, in fathoms, *15 1/2*
Nature of bottom, *Mud.*
Direction of ~~surface current~~, *Mud S E*
Force of ~~surface current~~, *do 3*
Direction of ~~bottom current~~, *drift N*
Pist range *1/4 M*
~~Force of bottom current~~,
Name of vessel, *Fish Hawk*
To what service attached, *U. S. F. C.*
Name and rank of commanding officer,
Lieut Z L Larrison
Name and position of observer,
Her H C Van Vliet

REMARKS.

Lana peruviana
Guayanaense
Colombiense
Paraguayense
Chilense
Physalis peruviana
Physalis peruviana
Physalis peruviana
Physalis peruviana

Chester Lake Bridge

TEMPERATURE RECORD.

Instrument used, *N 3*
 Current number of observation, *849*
 Date, *Sept 1st*
 Locality, *Tipton we'll Bay -*
 Bearings, *to dumping. N 4 N 1/2 N*
1/4 mile
 Time of day, *9.20* ; of tide, *ebb*
 State of sky, *Clear*
 Temperature of air, *67*
 " surface of water, *67* (*42066*)
 " at depth of *5* fathoms, *67* (*10 f 66*)
 " of bottom, *63* (*40007*)
 Depth, in fathoms, *20*
 Nature of bottom, *Sandy*
 Direction of ~~surface~~ current, *Wind Variable*
 Force of ~~surface~~ current, *do 1*
 Direction of ~~bottom~~ current, *drift S 20*
~~Force of bottom current,~~ *1/4 mile*
 Name of vessel, *Fish Hawk*
 To what service attached, *W S F C*
 Name and rank of commanding officer,
Lieut J L Larnon
 Name and position of observer,

Dr H C Van Fleet

REMARKS.

Hydrarchis, Asterias vulgaris
Asterias Forbesii.
Empressus longicaudus
Echinella marginulata
Cyathia Chamaea.
Empressus pallidus
Calappa borealis
Lunella maculata
Mytilus

Wentworth, Lake Huron
TEMPERATURE RECORD.

Instrument used, T. 3

Current number of observation, 430

Date, Sept 1st

Locality, Near Long Point, Lake Huron

Bearings, ~~to~~ sampling, E N E $\frac{1}{2}$ E
 $\frac{1}{2}$ mile

Time of day, 9.40 ; of tide, Ebb

State of sky, Clear

Temperature of air, 67

" surface of water, 67 (42666)

" at depth of 5 fathoms, 67 (10f66)

" of bottom, 63 (42577)

Depth, in fathoms, 14 $\frac{1}{2}$

Nature of bottom, Shells

Direction of surface current, ~~None~~ East

Force of surface current, ~~0~~ do. 2

Direction of bottom current, ~~South~~ South

Force of bottom current, ~~1~~ $\frac{1}{4}$ mile

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lieut. J. L. Lomen

Name and position of observer,

Mr. J. C. Van Vliet

6.50

REMARKS.

Hand dallas. -

Empy... ..

Hester, Luke Hardy

TEMPERATURE RECORD.

Instrument used, *A 3*

Current number of observation, *851*

Date, *Sept 1st*

Locality, *N. Longsight Bay*

Bearings, *Seaman Tail Light S 70° W 1/4 21 - 1 1/4 miles*

Time of day, *10* ; of tide, *Ebb*

State of sky, *Clear*

Temperature of air, *66*

" surface of water, *67* (*426661*)

" at depth of *5* fathoms, *66*

" of bottom, *66* (*42007*)

Depth, in fathoms, *12 1/2*

Nature of bottom, *Sand*

Direction of ~~surface current~~, *Wind* *AE*

Force of ~~surface current~~, *do.* *2*

Direction of ~~bottom current~~, *drift* *S*
1/4 mile

Name of vessel, *Fish Hawk*

To what service attached, *USFC*

Name and rank of commanding officer,
Lt Z L Lawrence

Name and position of observer,
Asst F C Van Vliet

857

REMARKS.

Much Laminaria &
ground
Spongia hirsuta

Yankee

TEMPERATURE RECORD.

Instrument used, 71 7

Current number of observation, 852

Date, Sept 1st

Locality, Panama Canal Bay -

Bearings, Beacon Light S S W $\frac{3}{4}$ W
2 1/2 miles

Time of day, 10.35 ; of tide, ebb

State of sky, clear

Temperature of air, 67

" surface of water, 76 (67) (2666)

" at depth of fathoms,

" of bottom, 66 (4000)

Depth, in fathoms, 2 1/2

Nature of bottom, sand

Direction of ~~surface~~ current, Mod E - S

Force of ~~surface~~ current, slow 1

Direction of ~~bottom~~ current, High S

~~Force of bottom~~ current, High 1/4 mile

Name of vessel, Fish Hawk

To what service attached, U.S. & C

Name and rank of commanding officer,

Lieut. J. L. Tanner

Name and position of observer,

U.S. & C Van Vleet

Note -
Mid channel in New Canal
Cove.

REMARKS.

Cominaria

Coligo Reubii

Chironomus thomasi Jordan

Hemiteles ruficornis

Empoasca picta Curtis

Stenobothrus angustifolius

Pentapleura albidiventris

Lophopoda maculata

Paia sinuata

Stenobothrus Carolinus

Chironomus thomasi

Empoasca picta

Stenobothrus thomasi

Journal

TEMPERATURE RECORD.

Instrument used, *R 7*

Current number of observation, *853*

Date, *Sept 1st*

Locality, *Harvey mouth Bay*

Bearings, *Bearwood light - S 74° S*
2 miles

Time of day, *10.50* ; of tide, *ebb*

State of sky, *Clear*

Temperature of air, *68*

" surface of water, *76* *07* *42666*

" at depth of _____ fathoms,

" of bottom, *67* *40007*

Depth, in fathoms, *4 1/2*

Nature of bottom, *Sand*

Direction of ~~surface~~ current, *Wind E*

Force of ~~surface~~ current, *do 1*

Direction of ~~bottom~~ current, *Swift S*

Swift ~~Force~~ of ~~bottom~~ current, *1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *U. S. F C*

Name and rank of commanding officer,
Lieut J L Larned

Name and position of observer,

Mr J C Van Vliet

*Note - mid channel in Mackinac
 Cove.*

REMARKS.

Laminaria
Homarus Americanus
Utricularia emarginata
Saligo, Penii
Lophoposetta maculata
Pseudohombes dentatus
Pseudopleuronectes Americanus
Menotomus argenteus
Cypracium regalis
Ruia
Perionotus Carolinus
Sautogalaxias edes/pesca

Trawl
TEMPERATURE RECORD.

Instrument used, *72 3*

Current number of observation, *854*

Date, *Feb. 22, 1922*

Locality, *Massachusetts Bay*

Bearings, *Bacon Point Light S W $\frac{1}{4}$ S
1 $\frac{3}{4}$ miles*

Time of day, *11.10* : of tide, *ebb*

State of sky, *clear*

Temperature of air, *69*

" surface of water, *67* *42666*

" at depth of _____ fathoms,

" of bottom, *67* *40007*

Depth, in fathoms, *6*

Nature of bottom, *sand*

Direction of ~~surface~~ current, *Wind SE*

Force of ~~surface~~ current, *do 1*

Direction of ~~bottom~~ current, *Strength S*

~~Force of bottom~~ current, *do 1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *USFC*

Name and rank of commanding officer,

Lieut. J. L. Lawrence

Name and position of observer,

Mr. H. C. Van Dine

Note - *Wind channel on weathered cord.*

REMARKS.

Spine character ac. - 100 h
Limulus Polyphemus
Limulus Americanus
Stomatium Aegyptiacum
Pronotus Carolinus
Pseudoscorpion dentatus
Lantholobus adspersus
Pseudoscorpion etc. Americanus
Lophositta maculata
Cynodon regalis

Trawl
TEMPERATURE RECORD.

Instrument used. *N Z*
Current number of observation. *855-*
Date. *Sept 1st*
Locality. *Martha's Vineyard Sound*
Bearings. *Bowditch light S 77° S*
2 miles
Time of day. *11. 40* ; of tide. *ebb*
State of sky. *Clear*
Temperature of air. *70*
" surface of water. *68* *4266*
" at depth of _____ fathoms.
" of bottom. *68* *42007*
Depth, in fathoms. *3 1/2*
Nature of bottom. ~~ff~~ *Sand*
Direction of surface current. *Force E*
Force of surface current. *do 1*
Direction of bottom current. *drift S*
~~Force~~ *Force* of bottom current. *do 1/4 mile*
Name of vessel. *Fish Hawk*
To what service attached. *W S F C*
Name and rank of commanding officer.
Lieut J L Looney
Name and position of observer.

W S F C Van Vleet

REMARKS.

Raja erinacea,
Chilichthys langsdorfi
Menotomus alypsus
Pseudopleuronectes americanus.
Lophopsetta maculata
Syngnathus fuscus
Pleuronectes Carolinus

Chester Cooper Hurd
TEMPERATURE RECORD.

Instrument used, *N 3*
Current number of observation, *85-6*
Date, *Sept. 1st*
Locality, *Narragansett Bay*
Bearings, *Beaumont light S 77 1/2° W*
1 3/8 miles
Time of day, *12, 05* ; of tide,
State of sky, *Clear*
Temperature of air, *69*
" surface of water, *68* *42666*
" at depth of *5* fathoms,
" of bottom, *67* *41007*
Depth, in fathoms, *11*
Nature of bottom, *Gravel*
Direction of ~~surface~~ current, *Wind E*
Force of ~~surface~~ current, *do 2*
Direction of ~~bottom~~ current, *Drift S S E*
~~Force~~ of ~~bottom~~ current, *do 1/4 mile*
Name of vessel, *Fish Hawk*
To what service attached, *US L C*
Name and rank of commanding officer,
Lt J L Larnen
Name and position of observer,

Mr J C Newell

856

REMARKS.

Cyprina Islandica
Mytilus edulis

Chester Lake Bridge -

TEMPERATURE RECORD.

Instrument used, *N Z*
 Current number of observation, *857*
 Date, *Sept 1st*
 Locality, *Narragansett Bay -*
 Bearings, *Beaver Tail Light - N S $77 \frac{3}{4}$ W*
6/10 Mile
 Time of day, *12.35* ; of tide.
 State of sky, *S. C. -*
 Temperature of air, *69*
 " surface of water, *63* *42666*
 " at depth of *10* fathoms, *66.5*
 " of bottom, *66* *40007*
 Depth, in fathoms, *19 -*
 Nature of bottom, *Sand -*
 Direction of surface ~~current~~, *Wind SE*
 Force of surface ~~current~~, *do 2*
 Direction of bottom ~~current~~, *Drift SE*
~~Force~~ ^{Drift} of bottom ~~current~~, *do 1/4 Mile*
 Name of vessel, *Fish Hawk*
 To what service attached, *U S F C*
 Name and rank of commanding officer,
Lieut J L Looman
 Name and position of observer,

Dr J C Van Vliet

857

REMARKS.

Large quantities Laminaria
to the sea weed

Chester Lake Bridge

TEMPERATURE RECORD.

Instrument used, *n z*

Current number of observation, *858*

Date, *Sept 1st*

Locality, *Narrowscott Bay*

Bearings, *Beaver tail light n w 1/4 n*
1/3 mile

Time of day, *10 5⁻* ; of tide, *flood*

State of sky, *Clear*

Temperature of air, *69*

" surface of water, *63* *42666*

" at depth of *10* fathoms, *66.5⁻*

" of bottom, *66* *40007*

Depth, in fathoms, *14*

Nature of bottom, *shelly -*

Direction of surface current, *near S E*

Force of surface current, *do, 2*

Direction of bottom current, *drift E*

drift
Force of bottom current, *do 1/4 mile*

Name of vessel, *Fish Hawk*

To what service attached, *W S & C*

Name and rank of commanding officer,

H Z L Larnen

Name and position of observer,

John H C Van Kleeft

REMARKS.