ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION RECORDS

Numbers 859 to 902

53.18
12
53.30

53.21.30
12
53.33.30

90
53
36.30
328
39.58
12

220
18
238

90.
53 33 30
36.36 30
3 28
39.54.30

450 / 36 = 12

450
27 0 8 (37½
216
540
504
3 / 36 (12
72 24 8

4 50
37
4 87½

12) 220 (18
12
100

12) 344 (28
24
104

344
28
372

337
28
365

46
46
50
53
52
55

60) 296 (4.56
240
2 / 562 / 60 | 20 / 30 | 14 / 15 | 60 / 00 (4

12) 337 (28
24
97

56

Book No. 3

1880

U.S. Fish Hawk.

U.S. Fish Commission

Headquarters:

Newport. R.I.

All bearings magnetic in this book.

J. C. Van Vliet U.S.N.

All bearings in
this book Magnetic

Dr Van Vliet

Chester Rake Dredge -

# TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 859

Date, Sept. 8

Locality, Atlantic Ocean -

Bearings, Cuttyhunk Light - N 1/2 W 3 miles

Time of day, 11.20 am ; of tide,

State of sky, Clear -

Temperature of air, 68

" surface of water, 66 (46400)

" at depth of 5 fathoms, 65

" of bottom, 63 (40007)

Depth, in fathoms, 17 1/2

Nature of bottom, Sand

Direction of ~~surface current~~, Wind 2 W

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift W

Force of ~~bottom current~~, Dist. Drift 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 Zamen

Name and position of observer,

Wm F C Van Vleck

859

## REMARKS.

Dredge came up foul - a mere water haul - nothing in the net & only a few pieces of Laminaria hanging to the Rope also Nine Nipples Phascolosma. Veredt.

Chester Rake Dredge -

# TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 860

Date, Sept 3rd

Locality, Atlantic Ocean.

Bearings, Cuttyhunk Light N 1/2 W 3 Miles.

Time of day, 11.55 am ; of tide,

State of sky, Clear

Temperature of air, 70

" surface of water, 66 (46400)

" at depth of 5 fathoms, 65

" of bottom, 64 (40027)

Depth, in fathoms, 17 1/2

Nature of bottom, Mud.

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

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift W

Dist

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

Name of vessel, Fish hawk

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

Name and rank of commanding officer,

Lieut H. Lamney

Name and position of observer,

Dr H.C. Van Vliet -

860

REMARKS.

Rich in annelids + amphi-
-pods, Mollusks.

Transit

# TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 861.

Date, Sept 3d

Locality, Atlantic Ocean.

Bearings, Cuttyhunk Light N 3/4 W 3 3/4 Miles

Time of day, 12, 20 ; of tide,

State of sky, Clear

Temperature of air, 69

" surface of water, 66 (46400)

" at depth of 5 fathoms, 65 (10f-65)

" of bottom, 61. (40007)

Depth, in fathoms, 17.

Nature of bottom, Sand.

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

Force of ~~surface current~~, Wind 2

Direction of ~~bottom current~~, Drift S

Force of ~~bottom current~~, do 1/4 Mile East

Name of vessel, Fish Hawk

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

Name and rank of commanding officer,

Lt. J. L. Zamen.

Name and position of observer,

Dr F C. van Vliet

## REMARKS.

Subeinlis compacta
Zolis Realii
Homarus Americanus
Asterias vulgaris
Empagurus Bernhardus
Platyonichus ocellatus.
Cancer Borealis
do pinnotheres
Rissoa Reticulata.

Trawl

# TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 862

Date, Sept 3rd

Locality, Atlantic Ocean

Bearings, Cuttyhunk Light North 4 miles

Time of day, 12.55 ; of tide,

State of sky, Clear

Temperature of air, 68

" surface of water, 66 (46400)

" at depth of 5 fathoms, 65

" of bottom, 64 (40097)

Depth, in fathoms, 17

Nature of bottom, Sand

Direction of ~~surface current~~, Wind SW

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, slight S

Force 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,

Lt J L Larmen

Name and position of observer,

Dr F C Von Flick

862

REMARKS.

Platyonichus ocellatus
Eumysogaster Bernhardus
Cancer borealis
Hymenus americanus
Astyra Realii
Cibrella sanguinolenta
Asterias vulgaris
Subinites compacta

Chester Lake Dredge.

# TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 863

Date, Sept 3rd

Locality, ~~Atlantic Ocean~~ Vineyard Sound

Bearings, Cuttyhunk Light - N 1/8 E - 3 3/4 Miles

Time of day, 1.40 ; of tide, flood

State of sky, Clear

Temperature of air, 70

" surface of water, 67 (42600)

" at depth of 10 fathoms, ~~67~~ 65 (5 fath. 65)

" of bottom, 65 (40007)

Depth, in fathoms, 18

Nature of bottom, Mud

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

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift S

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

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

H J L Zamer

Name and position of observer,

Dr F. C. van Vleck

863

REMARKS.

Same as 860
Yoldia limatula very
large.

Dredge -

# TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 864

Date, Sept - 3

Locality, Vineyard Sound

Bearings, Stony Herd Light - S S W 7/8 W 5 6/10 miles

Time of day, 3 p m ; of tide, flood

State of sky, Clear

Temperature of air, 70

" surface of water, 67 (46200)

" at depth of 5 fathoms, 66

" of bottom, 65 (40007)

Depth, in fathoms, 13

Nature of bottom, Sand -

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

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift S

Drift

~~Force~~ of ~~bottom current~~, do 1/4 m

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

Lt J L Lamon

Name and position of observer,

Dr F C von Vliet

H

864

REMARKS.

Trawl

# TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 865

Date, Sept. 4

Locality, Atlantic

Bearings, Lat. 40. 205 N.

Long: 70. 23 West

Time of day, 5-40 am ; of tide,

State of sky, Clear

Temperature of air, 71

" surface of water, 73 (46400) (~~46400~~)

" at depth of 5 fathoms, 75

" of bottom, Lost thermometer ~~6615-46401~~ (~~46400~~) 46007

Depth, in fathoms, 65

Nature of bottom, Lost Lead — Compact fine sand & mud

Direction of ~~surface current~~, Mod Var

Force of ~~surface current~~, do 1

Direction of ~~bottom current~~, Drift ENE

Force of ~~bottom current~~ drift, do 3/4 Mile

Name of vessel, Fish Hawk

To what service attached, USFC

Name and rank of commanding officer,

Lt. J L Lamer

Name and position of observer,

Dr FC van Fleet

## REMARKS.

(2)
46407 Then: lost by parting of the wire rope

In heavy seas swell the ship rolling violently at times.

The magnetic Zenotner thermometers are not reliable for bottom and intermediate temperatures, frequently being capsized by rolling of the ship.

Lamson

# TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 866

Date, Sept 4

Locality, Atlantic

Bearings, Lat - 40.05.18 Long - 70.22.18 W.

Time of day, 6.30 am; of tide,

State of sky, clear.

Temperature of air, 73.

" surface of water, 73. (46400)

" at depth of 5 fathoms, 74.5

" of bottom, 68.5 (?) (46401)

Depth, in fathoms, 65

Nature of bottom, fine sand & mud -

Direction of ~~surface current~~, wind var

Force of ~~surface current~~, do 1-0

Direction of ~~bottom current~~, drift N E x E

~~Force~~ Drift of ~~bottom current~~, do 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 Lamson

Name and position of observer,

Lt F C von Ulrich

REMARKS.

Rake dredge

# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 867.

Date, Sept 41

Locality, atlantic

Bearings, Lat 40.05.42 N. Long 70.22.06 W

Time of day, 7,04 ; of tide,

State of sky, clear

Temperature of air, 75°

" surface of water, 73° 46401 46400

" at depth of 5 fathoms, 75° 46401 46400

" of bottom, 53°

Depth, in fathoms, 64.

Nature of bottom, Sand & shell

Direction ~~of surface current~~, wind Calm

Force of ~~surface current~~, " 0

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

~~Force of bottom current~~, 9/4

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

Z.F.T.

## REMARKS.

# TEMPERATURE RECORD.

Instrument used, Snark

Current number of observation, 868

Date, Sept 4.

Locality, Albatross

Bearings, lat 40.01.42 N. long - 70.22.30 W

Time of day, 8 A.M. 3 hrs of tide,

State of sky, Clear

Temperature of air, 75°

" surface of water, 75° 4600

" at depth of 5 fathoms, 75 4601

" of bottom, 47° "

Depth, in fathoms, 162.

Nature of bottom, fine sand & black specks.

Direction ~~of surface current~~, wind

Force ~~of surface current~~, "

Direction ~~of bottom current~~, drift N. W

Force ~~of bottom current~~, drift 3/4 mile

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

[illegible]

868 **REMARKS.**

Transit dragging into deeper water that did not reach the bottom.

# TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 869.

Date, Sept 4

Locality, Atlantic

Bearings, lat 40.02.14 N long 70.23.06 W

Time of day, 9.25 am ; of tide,

State of sky, Clear

Temperature of air, 80°.

" surface of water, 76°. 4600

" at depth of 5 fathoms, 75°. 4600.

" of bottom, 50° (?) "

Depth, in fathoms, 152.

Nature of bottom, fine sand

Direction ~~of surface current~~, drift NNE

~~Force of surface current~~ Dist 3/4

Direction ~~of bottom current~~, wind Calm

Force ~~of bottom current~~, " "

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

[illegible]

## REMARKS.

# TEMPERATURE RECORD.

Instrument used, Trivel

Current number of observation, 870.

Date, Sept 4.

Locality, Atlantic

Bearings, Sat 40.02.36 Long 70.22.5 W.

Time of day, 10.50 am of tide,

State of sky, clear

Temperature of air, 80

" surface of water, 77°

" at depth of 5 fathoms, 75°

" of bottom, no obs.

Depth, in fathoms, 155.

Nature of bottom, Mud & fine sand

Direction ~~of surface current~~, West

Force of ~~surface current~~, "

Direction ~~of bottom current~~, drift. W x N

~~Force of bottom current~~, drift. 1' min

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

E. T.

## REMARKS.

# TEMPERATURE RECORD.

Instrument used, Frand -

Current number of observation, 871

Date, Sept 4

Locality, Atlantic

Bearings, Lat 40.02.54 N Long 70 23.40 W

{Lat Mind obs. 40.04.57. N}

Time of day, 11.40 am, of tide,

State of sky, Clear

Temperature of air, 84

" surface of water, 76.5

" at depth of 5 fathoms, 75 10 - 75

" of bottom, 49

Depth, in fathoms, 115

Nature of bottom, Mud & fine sand

Direction of ~~surface current~~, wind Calm

Force of ~~surface current~~, " 0

Direction of ~~bottom current~~, drift N. N. W.

Force of bottom current, drift 3/4 mile

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

J. P. S.

REMARKS.

# TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 872

Date, Sept 4th

Locality, Atlantic

Bearings Lat 40.05.35 N. Long 70.23.5 W.

Time of day, 12.45 ; of tide,

State of sky, Partially clear

Temperature of air, 81

" surface of water, 77.

" at depth of 5 fathoms, 75

" of bottom, 50.5

Depth, in fathoms, 86

Nature of bottom, Sand Pearl & Shells, sponges

Direction of ~~surface current~~, wind South

Force of ~~surface current~~, 1

Direction of ~~bottom current~~, Drift N W x N

Force of ~~bottom current~~, Disk 1/2 inch.

Name of vessel, "Fish Hawk"

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

Name and rank of commanding officer, Lieut Z. L. Tanner

Name and position of observer,

J. A. Smith

## REMARKS.

Trawl

# TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 873

Date, Sept 13

Locality, Atlantic.

Bearings, Lat – 40.02 N
Long – 70.57 W

Time of day, 5.36 am ; of tide,

State of sky, Clear

Temperature of air, 68

" surface of water, 69.5 46424

" at depth of 5 fathoms, 70, 10/70

" of bottom, 57 46420

Depth, in fathoms, 100

Nature of bottom, mud.

Direction of ~~surface current~~, Wind 2 W

Force of ~~surface current~~, do 3

Direction of ~~bottom current~~, Light NW x N

Force of ~~bottom current~~, do 1/2 m.

Name of vessel, Fish Hawk

To what service attached, USFC

Name and rank of commanding officer,

H D L Lumin

Name and position of observer,

Y.

## REMARKS.

11. Anchmodes asciforus. (Goode ms.)
5 Merluccius bilinearis (yg.)
1. Raia egg.

Trawl

# TEMPERATURE RECORD.

Instrument used, NZ

Current number of observation, 874

Date, Sept 13

Locality, Atlantic

Bearings, Lat 40 N

Long 70.57 W

Time of day, 6.26 am ; of tide,

State of sky, Clear

Temperature of air, 70

" surface of water, 70 46404

" at depth of 5 fathoms, 70.5: 10-70. 20-64.. 40-55

" of bottom, 51 46400

Depth, in fathoms, 85

Nature of bottom, Mud.

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

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, diff N W

Force of ~~bottom current~~, do 1/2 Mile

Name of vessel, Fish Hawk

To what service attached, USFC

Name and rank of commanding officer,

H L Lamson

Name and position of observer,

## REMARKS.

1. Anarhichas lupus (yg.)
1. Pseudolumpus oblongus
Anchmodes antipous (Good ms)
4. Raia sp. (β)
4. " eggs.

Transcl

# TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 875

Date, Sept 13

Locality, Atlantic

Bearings, Lat:- 39.57 N

Long:- 70. 57. 30 W.

Time of day, 7.51 am ; of tide,

State of sky, Clear

Temperature of air, 70

" surface of water, 70

" at depth of 5 fathoms, 71, (10.70°)(20.69°)30,54°) 46404

" of bottom, 53 46400

Depth, in fathoms, 126

Nature of bottom, mud.

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

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

Direction of ~~bottom current~~, drift NE

Force of ~~bottom current~~, do 1/2 mile

Name of vessel, Fish Hawk

To what service attached, WHC

Name and rank of commanding officer,

Lt J F Lamen

Name and position of observer,

V

REMARKS.

1. Anchinodes arctifrons
1. New genus flounder.
1. Merluccius bilinearis (yg.)
1. Sebastes marinus (yg.)

Trawl

# TEMPERATURE RECORD.

Instrument used, 23

Current number of observation, 876

Date, Sept 13

Locality, Atlantic

Bearings, Lat 39.57 N

Long - 70.56 W

Time of day, 8.45 am ; of tide,

State of sky, Clear

Temperature of air, 68

" surface of water, 70

" at depth of 5 fathoms, 71.10-70.20-69.30-54

" of bottom, 53

Depth, in fathoms, 120

Nature of bottom, mud.

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

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Bright N

Force of ~~bottom current~~, do 3/4 m.

Name of vessel, Fish Hawk

To what service attached, USFC

Name and rank of commanding officer,

H. B. Larner

Name and position of observer,

V

## REMARKS.

1. Lophius piscatorius
1. Monolene sessilicauda (Goode ms.)
1. Glyptocephalus cynoglossus. (yg.)
   Anchinodes arctiporus.
2. Reuspinus flondon.
   Merluccius bilinearis (yg.)
2. Sebastes marinus (yg.)
1. Sebastes sp. nov. (yg.)
2. Salmonoid. sp. nov. (yg)
1. Prionotus miniatus (Goode mss.)

Trawl

# TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 877

Date, Sept 13

Locality, Atlantic

Bearings, Lat 39. 56 N

Long 70. 54. 18 W

Time of day, 9.40 am ; of tide,

State of sky, Clear

Temperature of air, 71

" surface of water, 71 (46404)

" at depth of 5 fathoms, 78. 10 - 78. 20 - 66°

" of bottom, 57° (46400)

Depth, in fathoms, 126

Nature of bottom, mud

Direction of ~~surface current~~, mod SW

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, steady NNW

Force of ~~bottom current~~, do 3/4 M

Name of vessel, Fish Hawk

To what service attached, USFC

Name and rank of commanding officer,

LT L Lamen

Name and position of observer,

Y

REMARKS

## REMARKS.

2. Anus cimbrius
5. Mourlne decilicauda (Lord ms)
Merluccius filiparis (yg.)
Anchmodes arctiporus (Lord ms.)
1. Prietheus miniatum (yg.)
Salmonoid sp. nov.
Near Cy. inath Valve hook from
Sarah Riv. Lophalatilus chacm.

Trawl

# TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 878

Date, Sept 13

Locality, Atlantic

Bearings, Lat - 39.55 N

Long - 70.54.15 W

Time of day, 11 am - ; of tide,

State of sky, Cloudy -

Temperature of air, 72

" surface of water, 71

" at depth of 5 fathoms, 70 C - 66 } 10 - 70 70 } 20 - 55 55 - } (Lakkard) (Tabard)

" of bottom, 52°

Depth, in fathoms, 142½ (Cumula - 48°)

Nature of bottom, Mud -

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

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Light N W

Force of ~~bottom current~~, do 3/4

Name of vessel, H H

To what service attached, N Y C

Name and rank of commanding officer,

H Z L Lamson

Name and position of observer,

## REMARKS.

1. Lophius piscatorius.
Merluccius bilinearis yg rad.
ripe spawn.
1. Physis tenuis (?)
4. Phycis chesteri yg rad.
3. Myxine glutinosa
6. Alectrioides arctiporus (Goode ms.)
1. Glyptocephalus cynoglossus. (yg.)
2. Glossoid, maximus (yg.)
6. Salmonoid sp. nov.
7. Ammodytes americanus.

Trawl

# TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 879

Date, Sept 13

Locality, Atlantic

Bearings, Lat - 39.49.30 N

Long - 70.54 W

Time of day, ~~12.20~~ 1.20 PM ; of tide,

State of sky, Cloudy

Temperature of air, 73

" surface of water, 71.5

" at depth of 5 fathoms, 71 } 10 - 71 } 20 - 70 } (4 shoal)
C ~~58~~ 70 70 (Clear)

" of bottom, = 42 }
O = 42

Depth, in fathoms, ~~26~~ 225

Nature of bottom, Sand & Blue Mud

Direction of ~~surface current~~, Bot. N W

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

Direction of ~~bottom current~~, drift N & W

Force of ~~bottom current~~, do 3/4 M

Name of vessel, Fish Hawk

To what service attached, USFC

Name and rank of commanding officer,

Lt Jo Tomson

Name and position of observer,

V.

## REMARKS.

Phycis Chesteri yg. & ad.
1. Macrurus carminatus (Goode mss.)
M " Bairdii (?) ad & yg.
Lycodes Vahlii.
Glyptocephalus cynoglossus.
1. Halientichthys aculeatus
Merluccius bilinearis
Raia sp. yg.

Trawl

# TEMPERATURE RECORD.

Instrument used, MY

Current number of observation, 880

Date, Sept 13

Locality, Atlantic

Bearings, Lat - 39. 48. 30 N

Long - 70. 54 W

Time of day, 3 12 p m ; of tide,

State of sky, Cloudy -

Temperature of air, 74

" surface of water, 71.5 (45 m 2)

" at depth of 5 fathoms, 74. C - 69 } 10 - 72 71 }

" of bottom, 43 C = 41.5 } (46 m 2)

Depth, in fathoms, 252 1/2.

Nature of bottom, Mud.

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

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

Direction of ~~bottom current~~, Drift N x W

Force of ~~bottom current~~, do. 3/4 W

Name of vessel, Fish Hawk

To what service attached, USFC

Name and rank of commanding officer,

H B Lemon

Name and position of observer,

V

## REMARKS.

Glyptocephalus cynoglossus ad xyg.
Physis Chesteri (spawn)
Macrurus Bairdii (?)
Lycodes Vrrillii.
2. Liparis ramula (yg.)
4. Scynaphobranchus pinnatus.
Salmonoid.
Nemichthys scolopaceus
Cottoid sp. nov.
Raia sp. (B).
Raia egg.

# TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 881

Date, Sept 13

Locality, Atlantic

Bearings, Lat 39-46-30 N
Long 70-54-00 W

Time of day, 5-30 m ; of tide,

State of sky, Cloudy

Temperature of air, 70

" surface of water, 71

" at depth of 5 fathoms, 71 C=66 } 10 - 71.5 71

" of bottom, 42 C=41

Depth, in fathoms, 325 no bottom

Nature of bottom, no bottom

Direction of ~~surface current~~, mid 2 W

Force of ~~surface current~~, do 3

Direction of ~~bottom current~~, shift: W N W

Force of ~~bottom current~~, do 1/2 m

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

H Z L Lamer.

Name and position of observer,

## REMARKS.

1. Physis Cheateri.
1. Macrurus Baindii. (?)
6. Scopelus sp. nov.
4 Glyptocephalus cynoglossus. yg.
5. Syphobranchus pinnatus
Raia egg.

Travel

# TEMPERATURE RECORD.

Instrument used, N3

Current number of observation, 882

Date, Sept 17/80

Locality, Nanaimo Bay —

Bearings, Half way Rock - NNE½E.

2⅜ miles

Time of day, 10.56 ; of tide,

State of sky, Clear

Temperature of air, 68

" surface of water, 65 (46402)

" at depth of * fathoms,

" of bottom, 67 (46402)

Depth, in fathoms, 12½

Nature of bottom, Mud.

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

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

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

Force of ~~bottom current~~, do ¼ mile

Name of vessel, Irish Hawk

To what service attached, Wrec

Name and rank of commanding officer,

Lt Z L Tanner

Name and position of observer,

✓

## REMARKS.

1. Syngnathus fuscus.
Lophopetta maculata
Pseudorhombus oblongus (yg. ad.)
Pseudopleuronectes americanus
Limanda ferruginea.
Tetrodon turgidus
Stenotomus argyrops
Prionotus carolinus
Porronotus triacanthus
Cynoscion regalis
Raia sinuata
" laevis
" eglanteria
Physiculus (yg.)

Trawl

# TEMPERATURE RECORD.

Instrument used, NY

Current number of observation, 583

Date, Sept 17

Locality, Narragansett Bay

Bearings, Half Way Rock - NE by N.
2 1/4 Miles

Time of day, 11.35 ; of tide,

State of sky, Clear

Temperature of air, 70

" surface of water, 65

" at depth of fathoms,

" of bottom, 63 1/2

Depth, in fathoms, 13

Nature of bottom, Mud

Direction of ~~surface current~~ wind S W 2

Force of ~~surface current~~, do 2

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

Force of ~~bottom current~~, do 1/2 M

Name of vessel, Fish Hawk

To what service attached, USFC

Name and rank of commanding officer,
LT Z L Lemmon

Name and position of observer,

V

## REMARKS.

Pseudoplesiomeste americanus
Coptopsetta maculata
Limanda ferruginea
Pseudorhombus oblongus. (yg rad)
Phycis tenuis (yg.)
Porondus triacanthus (yg rad.)
Stenotomus argyrops. "
Cynoscion regalis.
Prionotus carolinus. (yg rad)
Raia laevis.
" eglanteria.

Dredge Rake Dredge

# TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 884

Date, Sept 17

Locality, Narragansett Bay

Bearings, Hope Island NE 1/2 E

200 yds

Time of day, 2.10 ; ~~o'clock~~,

State of sky, Clear

Temperature of air, 72

" surface of water, 65

" ~~at depth of~~ ~~fathoms~~,

" of bottom, 63.5

Depth, in fathoms, 5

Nature of bottom, Mud.

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

Force of ~~surface current~~, do 3

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

Force of ~~bottom current~~, do 1/4 n

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

LT L Larner

Name and position of observer,

## REMARKS.

# TEMPERATURE RECORD.

Instrument used, N 3 Martrand

Current number of observation, 885

Date, Sept 17

Locality, Narragansett Bay

Bearings, Gould Island N by E 3/4 E
3/8 of miles

Time of day, 3.15 ~~½ of flde~~

State of sky, Clear

Temperature of air, 71

" surface of water, 69

" ~~at depth~~ of 5 ~~fathoms~~, 64

" of bottom, 65

Depth, in fathoms, 16

Nature of bottom, Mud w shells

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

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift S

Force of ~~bottom current~~, do 1/4 m

Name of vessel, Fish Hawk

To what service attached, NAFC

Name and rank of commanding officer,

H J L Lamer

Name and position of observer,

F S W Kanley
Carpenters Mate

## REMARKS.

Pseudopleuronectes americanus
Lophopsetta maculata
Porosus biacanthus
Porosus carolinus
~~Stu~~ Stenotomus argyrops.
Roia laevis
erinacea
" eggs & young.

Dredge

# TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 886

Date, Sept 21

Locality, Atlantic

Bearings, South Lyt Block Isl: N 3/4 W 5 3/4 Miles.

Time of day, 12.49 P.M. ; of tide,

State of sky, Clear

Temperature of air, 67

" surface of water, 64

" at depth of 5 fathoms, 62.

" of bottom, 62

Depth, in fathoms, 19

Nature of bottom, Shells –

Direction of ~~surface current~~, mid Watch

Force of ~~surface current~~, do 2 –

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

~~Force~~ drift of ~~bottom current~~, do 3/4 W 1/4

Name of vessel, Fish Hawk

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

Name and rank of commanding officer,

Lt. J. L. Zamm

Name and position of observer,

Y

## REMARKS.

Transit

# TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 867

Date, Sept 21

Locality, Atlantic

Bearings, Sft Lgt Block Island N½W

5¾ miles (?)

Time of day, 1.30 ; of tide,

State of sky, Clear

Temperature of air, 67

" surface of water, 64

" at depth of 5 fathoms, 62

" of bottom, 62

Depth, in fathoms, 19

Nature of bottom, stones

Direction of ~~surface current~~, mid W

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift W ~~Tide~~

Force of ~~bottom current~~, do 3/4 M

Name of vessel, Fish Hawk

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

Name and rank of commanding officer,

Lt. J. L. Zamer

Name and position of observer,

## REMARKS.

Travel

# TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 888.

Date, Sept ~~17~~ 21

Locality, Atlantic.

Bearings, Sault-Left Black Bl: N x E

6 miles

Time of day, 2 p m ; ~~of tide~~,

State of sky, Clear

Temperature of air, 68

" surface of water, 69

" at depth of 5 fathoms, 62

" of bottom, 62

Depth, in fathoms, 19

Nature of bottom, Shells.

Direction of ~~surface current~~, Wind W

Force of ~~surface current~~, do 3

Direction of ~~bottom current~~, Drift W

Force of ~~bottom current~~, Dist do 1½ W

Name of vessel, Fish Hawk

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

Name and rank of commanding officer,

Lt. J. L. Zunner

Name and position of observer,

## REMARKS.

Dredge

# TEMPERATURE RECORD.

Instrument used, Nz

Current number of observation, 889

Date, Sept 21

Locality, Atlantic

Bearings, ~~Smith Lgt Block Island~~ W 1/4 S 5 miles

Time of day, 3.50 pm ; of tide,

State of sky, Clear

Temperature of air, 68

" surface of water, 64

" at depth of 5 fathoms, 62

" of bottom, 61.5

Depth, in fathoms, 11

Nature of bottom, Rocky

Direction of ~~surface current~~, mid W

Force of ~~surface current~~, do 3

Direction of ~~bottom current~~, Drift W & W

Force of ~~bottom current~~, do 1/2 M

Name of vessel, Fish Hawk

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

Name and rank of commanding officer,

Lt. J. L. Zamen

Name and position of observer,

## REMARKS.

Dredge

# TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 890

Date, Sept 21

Locality, Allen Ki

Bearings, South Light Block Island W 1/4 S 4 3/4 miles

Time of day, 4.15 pm ; of tide,

State of sky, Clear

Temperature of air, 68

" surface of water, 64

" at depth of 5 fathoms, 62

" of bottom, 61.5

Depth, in fathoms, 11

Nature of bottom, Rocky

Direction of ~~surface current~~, Winds W

Force of ~~surface current~~, do 3

Direction of ~~bottom current~~, Drift WSW

Dist

~~Force~~ of ~~bottom current~~, do 1/2 M

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lt. J. L. Larner

Name and position of observer,

## REMARKS.

Inverl

# TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 891

Date, Oct 2d

Locality, Atlantic

Bearings, Lat 39.45 N Long 71.10 W

Time of day, 6 am ; of tide,

State of sky, Clear

Temperature of air, 60

" surface of water, 67

" at depth of fathoms,

" of bottom,

Depth, in fathoms, 310+ Sounding line broke. (4640 ft)

Nature of bottom, mud

Direction of ~~surface current~~, wind NE

Force of ~~surface current~~, do 3

Direction of ~~bottom current~~, drift N

Force of ~~bottom current~~, drift do 1/2

Name of vessel, Fish Hawk

To what service attached, W & F C

Name and rank of commanding officer,

Lt J L Zamora

Name and position of observer,

Dr Van Vliet

891

REMARKS.

The sounding for No. 892 was 450 fath. and this is probably the depth of this one also.

Long. by observation
Lat. from by do

Trawl

# TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 892

Date, Oct 2

Locality, Atlantic

Bearings, Lat - 39. 46 N
Long - 71. 05 W

Time of day, 8 46 ; of tide,

State of sky, Clear

Temperature of air, 64

" surface of water, 65

" at depth of fathoms,

" of bottom, Lost lead when at surface

+ Depth, in fathoms, ~~450~~ 487

Nature of bottom, mud & small stones

Direction of ~~surface current~~, wind NE

Force of ~~surface current~~, do 3

Direction of ~~bottom current~~, Drift NNE -

Dist ~~Force~~ of ~~bottom current~~, do 2 miles

Name of vessel, Fish Hawk

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

Name and rank of commanding officer,

Lt. J. L. Zamer

Name and position of observer,

Herr

+

## REMARKS.

Trawl

# TEMPERATURE RECORD.

Instrument used, M

Current number of observation, 893

Date, Oct 2

Locality, Atlantic

Bearings, Lat - 39.52.20 N

Long - 70.58 W

Time of day, 11.23 ; of tide,

State of sky, clear

Temperature of air, 63

" surface of water, 64

" at depth of fathoms,

" of bottom, 40 M.C.

Depth, in fathoms, ~~54~~ 372

Nature of bottom, mud & small stones

Direction of ~~surface current~~, wind NE

Force of ~~surface current~~, do 3

Direction of ~~bottom current~~, Drift N

Force of ~~bottom current~~, do 1 Mile

Name of vessel, Fish Hawk

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

Name and rank of commanding officer,

Lt. J. L. Zinner

Name and position of observer,

Hy V. V. Zinn for Fathom 1/2

46.46.50.53.52.55

893

**REMARKS.**

Time of descent of lead in sounding every 1/2 fathom - Minutes -
46. 46. 50. 53. 52. 55.
Time hauling in - 8'. 15".

Trawl

# TEMPERATURE RECORD.

Instrument used, NZ

Current number of observation, 894

Date, ~~Oct~~ Oct 2

Locality, Atlantic

Bearings, Lat - 39.53 N

Long - 70.58.30 W

Time of day, 1.10 ; of tide,

State of sky, Clear

Temperature of air, 63

" surface of water, 64

" at depth of fathoms,

" of bottom, 40 MC

Depth, in fathoms, 365

Nature of bottom, ~~Mud~~ Sand

Direction of ~~surface current~~, Mod N ~~E~~

Force of ~~surface current~~, do 3

Direction of ~~bottom current~~, Drift N

Force of ~~bottom current~~, do 2

Name of vessel, Fish Hawk

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

Name and rank of commanding officer,

Lt. J. L. Zamora

Name and position of observer,

Hr. N. N.

## REMARKS.

Long-by observation.

# TEMPERATURE RECORD.

Instrument used, N J

Current number of observation, 895

Date, Oct 2d

Locality, Atlantic

Bearings, Lat 39 56.30 N

Long 70.59.45 W

Time of day, 3.17 ; of tide,

State of sky, Clear

Temperature of air, 62

" surface of water, 65

" at depth of fathoms,

" of bottom, 42 M C

Depth, in fathoms, 238

Nature of bottom, ~~sand~~ mud

Direction of ~~surface current~~, Wind N W

Force of ~~surface current~~, do 3

Direction of ~~bottom current~~, Drift N

Force of ~~bottom current~~, do 1 1/2

Name of vessel, Fish Hawk

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

Name and rank of commanding officer,

Lt. J. L. Zamen

Name and position of observer,

Ens W W

## REMARKS.

Long. by dissemination –

Trawl

# TEMPERATURE RECORD.

Instrument used, N Y

Current number of observation, 896

Date, Nov 16/80

Locality, atlantic

Bearings, Lat 37.26 N.

Long 74.15.00 W.

Time of day, ~~6.20 am~~, of tide,

State of sky, clr

Temperature of air, 52

" surface of water, 62 (46405)

" at depth of fathoms,

" of bottom, ~~52~~ 55 (46603)

Depth, in fathoms, 56

Nature of bottom, Sand & Shells

Direction of ~~surface current~~, mod NW

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift WNW

~~Dist~~

Force of ~~bottom current~~, do 1/2 M

Name of vessel, Fish Hawk

To what service attached, W D & C

Name and rank of commanding officer,

Lt J L Zamen

Name and position of observer,

Dr Van Vliet

## REMARKS.

Lat & Long subject to correction

Trawl

# TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 897

Date, Nov 16/80

Locality, Atlantic

Bearings, Lat. 37.25 N

Long - 74.18 W

Time of day, 10.10 am ; of tide,

State of sky, lc

Temperature of air, 62

" surface of water, 62 (46405)

" at depth of fathoms,

" of bottom, 48 (46403)

Depth, in fathoms, 157 1/2

Nature of bottom, Mud + sand

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

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift W

~~Force~~ that of ~~bottom current~~, do 1 M

Name of vessel, Fish Hawk

To what service attached, US F C

Name and rank of commanding officer,

Lt Z L Lamson

Name and position of observer,

Jer Van Vliet

## REMARKS.

Travel

# TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 898

Date, Nov 16/80

Locality, Atlantic

Bearings, Lat - 37.24 N.

Long - 74.17 W

Time of day, 11.25 am; of tide,

State of sky, h c

Temperature of air, 60

" surface of water, 62 (46405)

" at depth of fathoms,

" of bottom, ~~[illegible]~~ 44 (46403)

Depth, in fathoms, ~~[illegible]~~ 300

Nature of bottom, — ~~[illegible]~~ m

Direction of ~~surface current~~, Mid l w

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift w

Force of ~~bottom current~~, do 1 m

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lt J L Zamen

Name and position of observer,

Dr Van Vleit

## REMARKS.

Trawl

# TEMPERATURE RECORD.

Instrument used, NY

Current number of observation, 899

Date, Nov 16 1880

Locality, Atlantic

Bearings, Lat 37.22 N.

Long 74.25 W.

Time of day, ~~1.30~~ 1.55 pm ; of tide,

State of sky, bc

Temperature of air, 58

" surface of water, 61

" at depth of fathoms,

" of bottom, 54

Depth, in fathoms, 57½

Nature of bottom, Sand

Direction of ~~surface current~~, Wind NW

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift NW

Force of ~~bottom current~~, do ½ m

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lt J L Zamen

Name and position of observer,

Mr Van Vliet

## REMARKS.

Travel

# TEMPERATURE RECORD.

Instrument used, WJ

Current number of observation, 900

Date, Nov 16

Locality, Atlantic

Bearings, Lat 37.15 N.

Long 74.41 W

Time of day, 4 pm ; of tide,

State of sky, Clear

Temperature of air, 55

" surface of water, 59

" at depth of fathoms,

" of bottom, 56

Depth, in fathoms, 31

Nature of bottom, Sand

Direction of ~~surface current~~, Wind SW

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift W

Force of ~~bottom current~~, do 1/2

Name of vessel, Fish Hawk

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

Name and rank of commanding officer,

Lt J L Zamen

Name and position of observer,

Mr Van Vliet

## REMARKS.

# TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 901

Date, Nov 16/80

Locality, Atlantic

Bearings, Lat 37.10 N.
Long 75.08 W

Time of day, 7.15 p m ; of tide,

State of sky, Bright moonlight

Temperature of air, 53

" surface of water, 60

" at depth of fathoms,

" of bottom,

Depth, in fathoms, 18

Nature of bottom, sand

Direction of ~~surface current~~, Mid SW

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift

Force of ~~bottom current~~, do

Name of vessel, Fish Hawk

To what service attached, USFC

Name and rank of commanding officer,

Lt F L. Lamen

Name and position of observer,

Dr Van Vleit

## REMARKS.

Oyster Bridge

# TEMPERATURE RECORD.

Instrument used, Ny

Current number of observation, 902

Date, Dec 9 1880

Locality, Potomac River

Bearings, Pt. Lookout S.E. x E 3¼ m

Time of day, 9.55 am; of tide,

State of sky, Clear

Temperature of air, 30

" surface of water, ~~55~~ 50 46405

" at depth of fathoms,

" of bottom, 40 46402

Depth, in fathoms, 3

Nature of bottom, Oyster bank.

Direction of surface ~~current~~, mind NW

Force of surface current, do 3

Direction of bottom current, Drift NW

Force of bottom current, do 5 Minutes

Name of vessel, Fish Hawk

To what service attached, US F.C.

Name and rank of commanding officer,

Lt J L Zamora.

Name and position of observer,

Hr VV

## REMARKS.