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
3.28
39.58

220
18
238

90.
53 33 30
36.26 30
3 28
39.54.30

12 / 450 (3
36

450
6
72) 2700 (37½
216
540
504
3 / 36 124
72 248

450
37
487½

12) 220 (18
12
100

12) 344 (28
24
104

344
28
372

337
28
365

46
46
50
53
52
55

12) 337 (28
24
97

60) 296 (4.56
240
2 / 562 / 28 14
60 30 15 / 60 (4
00

56

Book No. 3

1880

U.S. Fish Hawk.

U.S. Fish Commission

Headquarters.

Newport R.I.

All bearings magnetic in this book.

H. C. Yarrow M.D.

All bearings in
this book Magnetic

H. Van Vleck

Chester Rake Dredge -

TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 859

Date, Sept. 8th

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, 14 1/2

Nature of bottom, Sand

Direction of ~~surface current~~, Mid 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 Lamson

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 Rake also Nine Nigripes Phascolasma. Teredo.

Chester Rake Dredge -

TEMPERATURE RECORD.

Instrument used, N Z

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 (40007)

Depth, in fathoms, 17 1/2

Nature of bottom, Mud.

Direction of ~~surface current~~, Wind 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 Z L. Tanner

Name and position of observer,

Dr F. C. van Vliet -

860

REMARKS.

Rich in annelids + amphi-
-pods, Molluscs.

Trawl

TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 861.

Date, Sept 2d

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~~, Mod S W

Force of ~~surface current~~, Mod 2

Direction of ~~bottom current~~, Drift S

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

Name of vessel, Fish Hawk

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

Name and rank of commanding officer,

Lt. J. L. Zamens.

Name and position of observer,

Dr F.C. van Vliet

861

REMARKS.

Subcutis compacta
Soligo Realii
Homanus Americanus
Asterias vulgaris
Empagurus Bernhardus
Platyonicus ocellatus.
Cancer Borealis
do irroratus
Pinnotheres maculatus.

Trawl

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 862

Date, Sept 3d

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 (40007)

Depth, in fathoms, 17

Nature of bottom, Sand

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

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, drift S

~~Force~~ sist 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 Lamen

Name and position of observer,

Dr F C Van Vliet

REMARKS.

Platyonichus ocellatus
Eupagurus Bernhardus
Cancer borealis
Hyas araneus
Inachus Scalis
Cribrella sanguinolenta
Asterias vulgaris
Solaster endeca

Chester Lake Dredge.

TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 863

Date, Sept 3rd Vineyard Sound

Locality, ~~Atlantic Ocean~~ -

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 (40004)

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 Lamm

Name and position of observer,

Dr F C. van Vleck

REMARKS.

Same as 860
Yoldia limatula very large.

Dredge -

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 864

Date, Sept - 3d

Locality, Vineyard Sound

Bearings, Gay Head 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 (46400)

" 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

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

Name of vessel, Fish Hawk

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

Name and rank of commanding officer,

Lt J L Tanner

Name and position of observer,

Dr F C van Vliet

//

REMARKS.

Trawl

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 865

Date, Sept-4

Locality, Atlantic

Bearings, Lat. 40. 05 N.

Long: 70. 23 West

Time of day, 5 am 40 ; 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 68.5 - 46401 ~~(46401)~~ 40007

Depth, in fathoms, 65

Nature of bottom, Lost Lead - leaf pack fine sand & mud

Direction of ~~surface current~~, Wind Van

Force of ~~surface current~~, do 1

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

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

Name of vessel, Fish Hawk

To what service attached, USFC

Name and rank of commanding officer,

Lt. Z L Lanner

Name and position of observer,

Dr FC van Vliet

REMARKS.

(2)
46405 Then: lost by parting of the wire rope

A heavy crop swell the ship rolling violently at times.

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

Tuesday

TEMPERATURE RECORD.

Instrument used, N Z

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~~, mid 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 F C

Name and rank of commanding officer,

Lt Z L Tanner

Name and position of observer,

Dr F C von Vleck

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 & Mud

Direction ~~of surface current~~, wind Colm

Force of ~~surface current~~, " 0

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

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

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

J. F. T.

REMARKS.

TEMPERATURE RECORD.

Instrument used, Saunt

Current number of observation, 868

Date, Sept 4.

Locality, Atlantic

Bearings, Lat 40.01.42 N. long - 70.22.30 W

Time of day, 8 A.M. 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~~, light 3/4 mile

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

J. F. L.

868 **REMARKS.**

Trawl dragging into deeper water did not reach the bottom.

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 869.

Date, Sept 4

Locality, Atlantic

Bearings, lat 40.02,18 N long 70.23.06 W.

Time of day, 9.27 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, 192.

Nature of bottom, Fine sand

Direction ~~of surface current~~, Drift Wh.

~~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, Trivial

Current number of observation, 870.

Date, Sept 4.

Locality, atlantic

Bearings, Lat 40.02.36 long 70°.22,5 8" 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~~, wind

Force of ~~surface current~~, "

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

~~Force of bottom current~~, Dist. 1' under

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

J. S. T.

REMARKS.

TEMPERATURE RECORD.

Instrument used, Inarol -

Current number of observation, 871

Date, Sept 4

Locality, Atlantic

Bearings, Lat 40.02.54 N Long 70 23.40 W
{Lat Nivid 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 f. 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, Dist. 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, Traut

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 Gravel & 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~~, Sick 1/2 knot.

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

REMARKS.

Trawl

TEMPERATURE RECORD.

Instrument used, NZ

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 46404

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

" of bottom, 51 46400

Depth, in fathoms, 100

Nature of bottom, mud.

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

Force of ~~surface current~~, do 3

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

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 Z L Tamin

Name and position of observer,

Y.

REMARKS.

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

Trunk

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 40-53

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

" of bottom, 51 46400

Depth, in fathoms, 85

Nature of bottom, Mud.

Direction of surface current, mod S W

Force of surface current, do 2

Direction of bottom current, slight W

Force of bottom current, do ½ Kite

Name of vessel, Fish Hawk

To what service attached, USFC

Name and rank of commanding officer, Lt Z Lamson

Name and position of observer,

REMARKS.

1. Anarrhichas lupus (yg.)
1. Pseudorhombus oblongus
Anchmodes arctipons (Goode ms.)
4. Raia sp. (β)
4. " eggs.

Travel

TEMPERATURE RECORD.

Instrument used, NZ

Current number of observation, 875

Date, Sept 13

Locality, Atlantic

Bearings, Lat:- ~~4~~ 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 46404

" at depth of 5 fathoms, 71°, (10.70°)(20,69°)30,54°)

" of bottom, 53 46400

Depth, in fathoms, 126

Nature of bottom, Mud.

Direction of ~~surface current~~, mud 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, W F C

Name and rank of commanding officer,

Lt Z L Lamen

Name and position of observer,

V

REMARKS.

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

Travel

TEMPERATURE RECORD.

Instrument used, NZ

Current number of observation, 876

Date, sept 13

Locality, Atlantic

Bearings, Lat 39.57.08 N

Long - 70.56.42 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~~, wind S W

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift N

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,

H. B. L. Lamen

Name and position of observer,

V

REMARKS.

1. Lophius piscatorius
1. Monolene sessilicauda (Goode ms.)
1. Glyptocephalus cynoglossus. (yg.)
Anchmodes arctifrons.
2. Newgenes flounder.
Merlucius bilinearis (yg.)
2. Sebastes marinus (yg.)
1. Sebastes sp. nov. (yg.)
2. Salmonoid. sp. nov. (yg)
1. Peristethus miniatus (Goode mss.)

Trawl

TEMPERATURE RECORD.

Instrument used, N Z

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~~, mid & W

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, drift N 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 Z L Lamen

Name and position of observer,

Y

REMARKS.

2. Anus cimbrius
5. Monoline dissilicauda (Goode ms)
Merluccius bilinearis (yg.)
Anchmodes arctipons (Goode ms.)
1. Peristhens miniatum (yg.)
Salmonoid sp. nov.
Nearly. with twelve hook from
Sarah Ford. Lophalatilus chaem.

Trawl

TEMPERATURE RECORD.

Instrument used, N Z

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 (46404)

" at depth of 5 fathoms, 70 C - 66 } 10 - 70 70 } 20 - 55 55 } (46400)

" of bottom, 52°

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

Nature of bottom, Mud -

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

Force of ~~surface current~~, do 2

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

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

Name of vessel, F H

To what service attached, U F C

Name and rank of commanding officer,

Lt Z L Lamen

Name and position of observer,

V

REMARKS.

1. Lophius picatorius.
Merlucius bilinearis yg & ad.
ripe sparm.
1. Phycis tenuis (?)
4. Phycis chesteri yg & ad.
3. Myxine glutinosa
6. Anchmodes arctifrons (Goode ms.)
1. Glyptocephalus cynoglossus. (yg.)
2. Sebastes marinus (yg.)
6. Salmonoid sp. nov.
7. Ovus cimbrius.

Trawl

TEMPERATURE RECORD.

Instrument used, NZ

Current number of observation, 879

Date, Sept 13

Locality, Atlantic

Bearings, Lat - 39.49.30 N

Long - 70.54 W

Time of day, ~~12.50~~ 1.20 pm ; of tide,

State of sky, Cloudy

Temperature of air, 73

" surface of water, 71.5

" at depth of 5 fathoms, 71 C ~~68~~ } 10 - 71/70 } 20 - 70/70 } (46404) (46000)

" of bottom, = 42 C = 42 }

Depth, in fathoms, ~~126~~ 225

Nature of bottom, Sand & Blue Mud

Direction of ~~surface current~~, Mid. R M

Force of ~~surface current~~, do. ~~2~~ 3

Direction of ~~bottom current~~, Drift N x 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 Z L Lumen

Name and position of observer,

V.

REMARKS.

Phycis Chesteri yg. & ad.
1. Macrurus carminatus (Goode ms.)
M " Bairdii (?) ad & yg.
Lycodes Verrillii.
Glyptocephalus cynoglossus.
1. Halieutichthys aculeatus
Merluccius bilinearis
Raia egg.

Trawl

TEMPERATURE RECORD.

Instrument used, Wz

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 pm ; of tide,

State of sky, Cloudy -

Temperature of air, 74

" surface of water, 71.5 (464 rd)

" at depth of 5 fathoms, 74. C = 68 } 10 - 72 71 }

" of bottom, 43 C = 41.5 } (464 rd)

Depth, in fathoms, 252 1/2.

Nature of bottom, Mud.

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

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

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

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

Name of vessel, Fish Hawk

To what service attached, USFC

Name and rank of commanding officer,

Lt Z L Lamen

Name and position of observer,

V

REMARKS.

Glyptocephalus cynoglossus ad xyg.
Phycis Chesteri (sparon)
Macrurus Bairdii (?)
Lycodes Verrillii.
2. Liparis ranula (yg.)
4. Synaphobranchus pinnatus.
Salmonoid.
Nemichthys salpaeus
Cottoid sp. nov.
Raia sp. (β).
Raia egg.

TEMPERATURE RECORD.

Instrument used, NZ

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 p 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 S W

Force of surface current, do 3

Direction of bottom current, drift 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,
Lt J L Zanner.

Name and position of observer,

[illegible]

REMARKS.

1. Physis Chesteri.
1. Macrurus Baindii (?)
6. Scopelus sp. nov.
4 Glyptocephalus cynoglossus. yg.
5. Liparis fimbriatus
Raia egg.

Travel

TEMPERATURE RECORD.

Instrument used, NZ

Current number of observation, 882

Date, Sept 17/80

Locality, Narragansett Bay —

Bearings, Half way Rock - NNE 1/2 E.
2 3/8 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 (46400)

Depth, in fathoms, 12 1/2

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 1/4 mile

Name of vessel, Fish Hawk

To what service attached, [illegible]

Name and rank of commanding officer,
Lt Z L Lamar

Name and position of observer,

✓

REMARKS.

1. Syngnathus fuscus.
Lophopetta maculata
Pseudorhombus oblongus (yg. rad.)
Pseudopleuronectes americanus
Limanda ferruginea.
Tetrodon turgidus
Stenotomus argyrops
Prionotus carolinus
Poronotus triacanthus
Cynoscion regalis
Raia erinacea
" laevis
" eglanteria
Phycis tenuis (yg.)

Trawl

TEMPERATURE RECORD.

Instrument used, NZ

Current number of observation, 883

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~~, Drift S W

Force of ~~bottom current~~, do 7/2 M

Name of vessel, Fish Hawk

To what service attached, WHC

Name and rank of commanding officer,

Lt Z L Lamm

Name and position of observer,

V

REMARKS.

Pseudopleuronectes americanus
Hoplopsetta maculata
Limanda ferruginea
Pseudorhombus oblongus. (4 rad)
Physeis tenuis. (4 g.)
Porondus triacanthus (4 rad.)
Stenotomus argyrops. "
Cynoscion regalis.
Prionotus carolinus. (4 rad)
Raia laevis.
" eglanteria.

Chester Rake Dredge

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 884

Date, Sept 17

Locality, Narragansett Bay

Bearings, Hope Island N E 1/2 E

200 yds

Time of day, 2.10 ; ~~of tide~~,

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~~, Drift 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,

LBZ L Lannen

Name and position of observer,

Y

REMARKS.

TEMPERATURE RECORD.

Instrument used, N Z Otis Frank

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, 3.13 ~~; of tide,~~

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 & 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, USFC

Name and rank of commanding officer,
H J L Lamen

Name and position of observer,

F W Kenly
Carpenters Mate

REMARKS.

Pseudopleuronectes americanus
Lophopetta maculata
Poronotus triacanthus
Prionotus Carolinus
~~Stut~~ Stenotomus argyrops.
Raia laevis
erinacea
" eggs & young.

Dredge

TEMPERATURE RECORD.

Instrument used, N Z

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 pm ; 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~~, wind West

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

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

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

Name of vessel, Fish Hawk

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

Name and rank of commanding officer,

Lt. J. L. Tarman

Name and position of observer,

Y

REMARKS.

Hawk

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 887

Date, Sept 21

Locality, atlantic

Bearings, Sch-Lgt Block Island N 1/2 W

5 3/4 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~~, wind W

Force of ~~surface current~~, do 2

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

Dist ~~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. Tanner

Name and position of observer,

REMARKS.

Trawl

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 888.

Date, Sept ~~17~~ 21

Locality, Atlantic.

Bearings, South-Lgt Block Isl: N x E

6 miles

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

State of sky, Clear

Temperature of air, 68

" 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~~, wind W

Force of ~~surface current~~, do 3

Direction of ~~bottom current~~, Drift W

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

Dredge

TEMPERATURE RECORD.

Instrument used, Wz

Current number of observation, 889

Date, Sept 21

Locality, Atlantic

Bearings, South 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~~, wind W

Force of ~~surface current~~, do 3

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

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. Zamen

Name and position of observer,

REMARKS.

Dredge

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 890

Date, Sept 21

Locality, Atlantic

Bearings, South Lgt 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. Zamen

Name and position of observer,

REMARKS.

Inward

TEMPERATURE RECORD.

Instrument used, N 3

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 3/4)

Nature of bottom, mud

Direction of ~~surface current~~, wind NE ~~E~~

Force of ~~surface current~~, do 3

Direction of ~~bottom current~~, Drift N

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

Name of vessel, Fish Hawk

To what service attached, W & F C

Name and rank of commanding officer,

Lt J L Zane

Name and position of observer,

Mr 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. Noon by do

Trawl

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 892

Date, Oct 2

Locality, Atlantic

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

Time of day, 8 46 am ; of tide,

State of sky, clear

Temperature of air, 64

" surface of water, 65

" at depth of fathoms,

" of bottom, Lost level 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 -

~~Force~~ Dist 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. Zanner

Name and position of observer,

Hr N

+

REMARKS.

Trawl

TEMPERATURE RECORD.

Instrument used, my

Current number of observation, 893

Date, Oct 2

Locality, atlantic

Bearings, Lat - 39.52.20 N

am 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, ~~544~~ 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

Dist ~~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. Tanner

Name and position of observer,

1 2 3 4 5 6 7 1/2 Time per fathom

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, ~~Atta~~ Oct 2

Locality, Atlantic

Bearings, Lat - 39.53 N

pm 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~~, wind N ~~E~~

Force of ~~surface current~~, do 3

Direction of ~~bottom current~~, Drift N

Dick ~~Force~~ of ~~bottom current~~, do 2

Name of vessel, Fish Hawk

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

Name and rank of commanding officer,

Lt. J. L. Tanner

Name and position of observer,

Dr. N. N.

REMARKS.

Lung - by observation.

TEMPERATURE RECORD.

Instrument used, N J

Current number of observation, 895

Date, Oct 22

Locality, Atlantic

Bearings, Lat 39 56.30 N

P M Long 70.54.45 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 NW

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, U. S. F. C.

Name and rank of commanding officer,

Lt. J. L. Tanner

Name and position of observer,

Wm NW

REMARKS.

Long. by observation –

Travel

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 896

Date, Nov 16, 1880

Locality, atlantic

Bearings, Lat 37.26 N.

Long 74.19.00 W.

Time of day, 9.20 am ~~6.40 am~~; of tide,

State of sky, lc -

Temperature of air, 52

" surface of water, 62 (46405)

" at depth of fathoms,

" of bottom, ~~62~~ 55 (46403)

Depth, in fathoms, 56

Nature of bottom, Sand & Shells -

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

Force of ~~surface current~~, do 2

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

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 Tamen

Name and position of observer,

Dr van Vliet

REMARKS.

Lat & Long. subject to Correction

Trawl

TEMPERATURE RECORD.

Instrument used, N Y

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, hc

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~~, Mists S W

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift W

~~Heat~~

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

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

Lt Z L Lamson

Name and position of observer,

Herman Klein

REMARKS.

Travel

TEMPERATURE RECORD.

Instrument used, NZ

Current number of observation, 898

Date, Nov 16/80

Locality, Atlantic

Bearings, Lat - 37.. 24 N.

Long - 74.. 17.. [illegible]

Time of day, 11.25 am; of tide,

State of sky, b 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]~~ 1 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 Lamen

Name and position of observer,

Dr Van Vliet

REMARKS.

Trawl

TEMPERATURE RECORD.

Instrument used, NN

Current number of observation, 899

Date, Nov 16/80

Locality, Atlantic

Bearings, Lat 37. 22 N.

Long 74. 25 W.

Time of day, ~~1.30~~ 1.35 PM ; of tide,

State of sky, Lc

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~~, Mud 1 W

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift 1 W

Force of ~~bottom current~~, do ½ M

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

Lt J L Zamm

Name and position of observer,

Mr Van Vliet

REMARKS.

Trawl

TEMPERATURE RECORD.

Instrument used, NW

Current number of observation, 900

Date, Nov 16

Locality, Atlantic

Bearings, Lat 37.15.2.

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~~, Mud 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 Lamm

Name and position of observer,

Dr Van Vleet

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 pm ; 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~~, Wind 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, WSFC

Name and rank of commanding officer,

Lt Z L. Zamen

Name and position of observer,

Dr Van Vliet

REMARKS.

Oyster Dredge

TEMPERATURE RECORD.

Instrument used, Wy #46405

Current number of observation, 902

Date, Decr 9 1880

Locality, Potomac River

Bearings, Pt. Lookout S.E. x E 3 1/4 m

Time of day, 9.55 am; of tide,

State of sky, Clear

Temperature of air, 30

" surface of water, ~~65~~ 50 46405

" at depth of fathoms,

" of bottom, 40 46402

Depth, in fathoms, 3

Nature of bottom, Oyster bank.

Direction of ~~surface current~~, wind 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, WSFC

Name and rank of commanding officer,

Lt Z L Tanner.

Name and position of observer,

Dr VV

REMARKS.