

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1123 to 1155

FISH HAWK

1123

To

1155

1123 - 11

π σ

$$11 - 48 = 30$$

$$45 - 24$$

10

$$45 - 34$$

$$44 - 26$$

1882

1123	—	-B+C-2-25
		<u>-B+B-1-36 1/2</u>
		C-S 4-01 1/2

S 10-27-00

B 10-35-23 1/2

B-S 12-23 1/2

B 10-37-00

C 10-34-05

B-C 2-52

B-S 12-23 1/2

C-S 9-31 1/2

4-23

5-08 1/2

S-B 1-36 1/2

B-C 2-52

C-S

1123

Trawl over 12.31 down 12.57

leaving in 322 of 355

at 2.35 got east of boat in 627

830 fms out

Very interesting haul of
rare things

Phormosoma Seysbeii sw

Devil-fish *Eledone verrucosa*

(3rd one known & not before
taken by us)

Several flexible *auratus*

Phormosoma figetii

New starfish

Pecten vitreus

Eledone verrucosa 1 ♀

New *Pennatulid*-like coral

Colossendeis ~~gigantea~~ collosa

(phantom coral)

Pleuratoulla Agassizii

Margarita nyalis

Macrurus Bairdii 1

Cyclopterus lumpus (common)

Merluccius bilinearis juv

Lemnochelys parasitica 13

Isopodus

Dionolepis intricata

TEMPERATURE RECORD.

Instrument used, *Wep Sea Trawl*

Current number of observation, *1123*

Date, *Aug 26th 1882*

Locality, *off Nantucket*

Bearings, *Lat 39°-59'-45" N Obs @*
Long 68-54 W

Time of day, *12.00* ; of tide,

State of sky, *bc*

Temperature of air, *70*

“ surface of water, *6.9*

“ at depth of _____ fathoms,

“ of bottom, *39*

Depth, in fathoms, *761 = 787*

Nature of bottom, *Sand & green mud*

Direction of surface current, *wind NNE force 4*

Force of surface current, *Drift N.W. 1'*

Direction of bottom current,

Force of bottom current,

Name of vessel, *Fish Hawk*

To what service attached, *US Fish Commission*

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

Name and position of observer,
J. J. British
Mid. U.S.N.

1124

REMARKS.

Sibastis marmorata
 & *Physiculus tenuis*

trawl over 429 down 444

heaving in 577 up 544?

Valuable haul

Large limestone nodules,

Large haul
 large nodular mass of tertiary limestone
 (fossiliferous)

Acanella Normanii lat

Agauthoorgia armata sev

Balacera Gueldiae lat

Pardalium propinquum

Diploptera multipes

Geryon quinquecostatus sev

Astrochile Hymani or *Acanella*

Cetapus Bairdii

Rassia megaloptera

Rassia megaloptera (rare squid
 2nd one known, not known taken by us)

New *Chiton* (*Mofalia*?)

Calliostoma occidentale

Pennatulula borealis

Margarita oryctes, *Aporrhais occident.*

Sipho fuscus

Foristes elegans

Sinopsis minuta

2 *Pennatulula borealis*

Agauthoorgia armata (from coral)

Murchiesia vitinaria

Simnuchelys parasitica

Macrurus carminatus
Haliastur dentatus
Cottus macropus
TEMPERATURE RECORD.

Instrument used,

W. B. Fawl

Current number of observation,

1124

Date,

Aug 26th 1882

Locality,

Off Nantucket

Bearings,

Lat 40°-01' N
Long 68°-54' W

Time of day,

4.01 ; of tide,

State of sky,

bc

Temperature of air,

65

"

surface of water,

65

"

at depth of

fathoms,

"

of bottom,

39

Depth, in fathoms,

630 = 640

Nature of bottom,

fine sand & mud

Direction of surface current,

drift NNE Force 4

Force of surface current,

drift N x N 1'

Direction of bottom current,

Force of bottom current,

Name of vessel,

Fish Hawk

To what service attached,

U.S. Fish Comm.

Name and rank of commanding officer,

Lt. L. L. Tanner USN

Name and position of observer,

J. W. B. Smith
Midwest

1125
REMARKS.

Trawl over 603 down 610
hauled in 632 up 650
500 fms out

Hyalinocera *artifex* Lat
Acanella *normani* sev.
Burmes *immediata* Lat
Sargassum *abyssiola* Lat
Pandanus *propinquus*
Bolocera *Ludlowi*
Siphon *maia* (rare 90%)
Geryon *quinquedens*
Protos *vitreus*
Leptodermis *septentrionalis*
Scopelus *functo-striatus*
Photichia *fragilis*
Merluccius *bilinearis*
Sarcelus
Brevoortia *marinus*
Macrurus *Baindii*

TEMPERATURE RECORD.

Instrument used, *Deep Sea Trawl*
 Current number of observation, *1125*
 Date, *Aug 26th 1882*
 Locality, *Off Nantucket*
 Bearings, *Lat 40°-03' N*
 Long 68°-56 W
 Time of day, *5 48* ; of tide,
 State of sky, *bc*
 Temperature of air, *65*
 " surface of water, *64*
 " at depth of fathoms,
 " of bottom, *40*
 Depth, in fathoms, *284 = 291*
 Nature of bottom, *Sand & mud*
 Direction of surface current, *Wind NNE Force 4*
 Drift N W x W "
 Force of surface current,
 Direction of bottom current,
 Force of bottom current,
 Name of vessel, *Fish Hawk*
 To what service attached, *U.S. Fish Comm.*
 Name and rank of commanding officer,
 H. L. L. Tanner USN
 Name and position of observer,
 J. J. Cook
 USN

REMARKS.

Cancer borealis
 " *irroratus*
Platyonchus ocellatus
Homarus Americanus
Lunatia heros
Mytilus edulis
Echinorachium farma lot
Asterias Forksi lot
 " *vulgaris* 7 sev
Gobiosetta maculata 6
Parca erinacea 8
Prionotus carolinus 2
Stenotomus argyrops (many juv)

TEMPERATURE RECORD.

Instrument used, *Trawl*
 Current number of observation, *1126*
 Date, *Aug 28 1882*
 Locality, *Whitney Sound*
 Bearings, *Gay Head Lt House*
W 2 3/4
 Time of day, *1.46* ; of tide, *half (1st)*
 State of sky, *bc*
 Temperature of air, *72*
 " surface of water, *66*
 " at depth of fathoms,
 " of bottom, *63 1/2*
 Depth, in fathoms, *14*
 Nature of bottom, *black mud & sand*
 Direction of surface current, *drift SSE Force 4*
 Force of surface current, *drift SSE 1 3/4*
 Direction of bottom current,
 Force of bottom current,
 Name of vessel, *Fish Hawk*
 To what service attached, *US Fish Comm*
 Name and rank of commanding officer,
 H. L. L. Tanner USN
 Name and position of observer,
 J. J. Smith
 Water U.S.N.

REMARKS.

~~Same Inv. as 1126~~
~~Inv.~~

Same as 1126

7 Muracoid junellus 4
 1 *ocellatus* many
 1 *neuroneis American* (1)

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1127

Date,

Aug 28 1882

Locality,

Vineyard Sound

Bearings,

Gay Head Lt House

N x S 3'

Time of day,

230

; of tide,

ebb (west)

State of sky,

bc

Temperature of air,

66

"

surface of water,

"

at depth of

fathoms,

"

of bottom,

64

Depth, in fathoms,

10

Nature of bottom,

gray mud

Direction of surface current,

Wind SSE Force 4

Force of surface current,

Drift SSE 1/2

Direction of bottom current,

Force of bottom current,

Name of vessel,

Fish Hawk

To what service attached,

U.S. Fish Comm

Name and rank of commanding officer,

H. L. L. Tanner USN

Name and position of observer,

Jos Blish
USN

1128

REMARKS.

Inv

Same as 1126
no fish

TEMPERATURE RECORD.

Instrument used,

Wedge

Current number of observation,

1128

Date,

Aug 28 1882

Locality,

Vineyard Sound

Bearings,

Bay Head Lt. House

$28\frac{3}{4} S$

$2\frac{3}{4}$

Time of day,

3.10 ; of tide,

ebb

State of sky,

bc

Temperature of air,

69

"

surface of water,

64

"

at depth of

fathoms,

"

of bottom,

65

Depth, in fathoms,

9

Nature of bottom,

gray sand & mud

Direction of surface current,

Wind SSE Force 4

Force of surface current,

~~2 mph~~ $8 \times E \frac{1}{4}$

Direction of bottom current,

Force of bottom current,

Name of vessel,

Fish Hawk

To what service attached,

US Fish Comm

Name and rank of commanding officer,

Lt. L. L. Tanner USN

Name and position of observer,

J. B. Bishop
Master USN

No fish

*Echinabachium parma**Astragalus**Molpula ornata**Astarte castanea**Cancer irroratus* var*Eufanus foliaceus**Tritida trinitata**Asturis lunata**Clidioflora trilineata**Mastra solidissima**Lyonsia thyalma*

TEMPERATURE RECORD.

Instrument used,

Dredge

Current number of observation,

1129

Date,

Sept 2nd 1882

Locality,

off No Man's Land

Bearings,

#1sting Village
South $\frac{1}{8}$

Time of day, 2^{00} ; of tide,

State of sky,

bc

Temperature of air,

72

“ surface of water, 65

“ at depth of fathoms,

“ of bottom, 62

Depth, in fathoms,

4

Nature of bottom,

Sand & shells

Direction of surface current,

Wind ENE Force 4

Force of surface current,

Drift NESE $\frac{1}{8}$

Direction of bottom current,

Force of bottom current

Name of vessel,

Fish Hawk

To what service attached,

US Fish Comm

Name and rank of commanding officer,

Lt. L. L. Tanner USN

Name and position of observer,

J. J. Shoh
USN USN

1130

REMARKS.

No fish
same inv. as 1129

TEMPERATURE RECORD.

Instrument used,

Dredge

Current number of observation,

1130

Date,

Sept - 2nd 1882

Locality,

off No Man's Land

Bearings,

Hunting Village
S $\frac{1}{2}$ E $\frac{1}{8}$

Time of day, 2:13 PM, of tide,

State of sky,

bc

Temperature of air,

72

" surface of water, 65

" at depth of fathoms,

" of bottom, 62

Depth, in fathoms,

4

Nature of bottom,

Sand & stones

Direction of surface current,

Wind ENE Force 4

Force of surface current,

Drift NW $\frac{1}{8}$

Direction of bottom current,

Force of bottom current

Name of vessel,

Fish Hawk

To what service attached,

US Fish Comm

Name and rank of commanding officer,

Lt. L. L. Fanner USN

Name and position of observer,

W. B. Smith
Midw USN

1131

REMARKS.

No fish
same tow. as 1129

TEMPERATURE RECORD.

Instrument used, *Dredge*
Current number of observation, *1131*
Date, *Sept - 2nd, 1882*
Locality, *off No Mans Land*
Bearings, *Fishing Village*
SE by E 1/2
Time of day, *2.29* ; of tide,
State of sky, *bc*
Temperature of air, *72*
" surface of water, *65*
" at depth of fathoms,
" of bottom, *63*
Depth, in fathoms, *4*
Nature of bottom, *sand & stones*
Direction of surface current, *SW E Force 4*
Force of surface current, *South E x N 1/4*
Direction of bottom current,
Force of bottom current,
Name of vessel, *Fish Hawk*
To what service attached, *US Fish Comm*
Name and rank of commanding officer,
Lt. J. L. Tanner USN
Name and position of observer,
Jos. Bush
Midu USN

1132

REMARKS.

No fish
Same Dr. as 1129

TEMPERATURE RECORD.

Instrument used, *Dredge*
 Current number of observation, *1132*
 Date, *Sept 22nd, 1882*
 Locality, *off No Man Land*
 Bearings, *Fishing Village*
SE x E 1/4
 Time of day, *245* ; of tide,
 State of sky, *bc*
 Temperature of air, *72*
 " surface of water, *65*
 " at depth of fathoms,
 " of bottom, *62*
 Depth, in fathoms, *4*
 Nature of bottom, *Sand & shells*
 Direction of surface current, *Wind ENE Force 4*
 Force of surface current, *Drift NNE 1/2*
 Direction of bottom current,
 Force of bottom current,
 Name of vessel, *Fish Hawk*
 To what service attached, *US Fish Comm*
 Name and rank of commanding officer,
Lt. L. L. Tanner USN
 Name and position of observer,
Joseph W. ... USN

1133

REMARKS.

W. J. H.
Cambridge
1129

TEMPERATURE RECORD.

Instrument used, *Dredge*

Current number of observation, *1133*

Date, *Sept 2 1882*

Locality, *off No Man's Land*

Bearings, *Fishing Village*

Time of day, *8:10* ; of tide,

State of sky, *bc*

Temperature of air, *72*

“ surface of water, *65*

“ at depth of fathoms,

“ of bottom, *62*

Depth, in fathoms, *4*

Nature of bottom, *Land & stone*

Direction of surface current, *Wind over Force 4*

Force of surface current, *Drift E x S 3/4*

Direction of bottom current,

Force of bottom current,

Name of vessel, *Fish Hawk*

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

Name and rank of commanding officer,

Name and position of observer,

H. L. Tanner USN

*J. J. Smith
Master USN*

1134

REMARKS.

Specific Gravity

Surface 1.023566

5 fms 1.023566

Rosa acellata Jan*Prionotus carolinus**Leptopsetta maculata* J.*Stenotomus argyrops* M.*Nezumia americana**Centropristis atrarins*

TEMPERATURE RECORD.

Instrument used, *Trawl*
Current number of observation, *1134*
Date, *September 6th 1882*
Locality, *Menemsha Right Vineyard Id*
Bearings, *Gay Head Lt House*
W 1/4 N dist. 2 3/4
Time of day, *1.26* ; of tide, *last of mat (ebb) tide*
State of sky, *bc*
Temperature of air, *76*
" surface of water, *66*
" at depth of _____ fathoms,
" of bottom, *64*
Depth, in fathoms, *9 1/2*
Nature of bottom, *sand & mud*
Direction of surface current, *NE Force 4*
Force of surface current, *Drift NWN 1/2*
Direction of bottom current,
Force of bottom current,
Name of vessel, *Fish Hawk*
To what service attached, *US Fish Com*
Name and rank of commanding officer,
Lt. L. Lanner USN
Name and position of observer,
J. J. Smith
Master USN

1135
REMARKS.

Lautogobius adspersus
Lophopsetta maculata Pau
Raia ocellata
Pteromyx Carolinus
Stenotomus argyrops Max
Centropristis striata M

TEMPERATURE RECORD.

Instrument used, *Trawl*
 Current number of observation, *1135*
 Date, *September 6th 1882*
 Locality, *Vineyard Sound*
 Bearings, *Key Head Lt. House*
N 1/2 S 3'
 Time of day, *2.20* ; of tide, *Slack (low) water*
 State of sky, *bc*
 Temperature of air, *71*
 " surface of water, *66*
 " at depth of fathoms,
 " of bottom, *64*
 Depth, in fathoms, *7 1/2*
 Nature of bottom, *Sand & mud*
 Direction of ~~surface~~ *drift* current, *NE Force 4*
 Force of surface current, *NE 1/4*
 Direction of bottom current,
 Force of bottom current,
 Name of vessel, *Fish Hawk*
 To what service attached, *US Fish Comm*
 Name and rank of commanding officer,
Lt. L. L. Tanner USN
 Name and position of observer,
J. B. Smith USN

1136

REMARKS.

W. J. Smith

TEMPERATURE RECORD.

Instrument used, *Dredge*
Current number of observation, *1135*
Date, *Sept - 6th 1882*
Locality, *Vineyard Sound*
Bearings, *Bay Head Lt. House*
N 80 W 7/8 W 3'
Time of day, *8.50* ; of tide, *East tide*
State of sky, *bc*
Temperature of air, *70*
" surface of water, *66*
" at depth of fathoms,
" of bottom, *63*
Depth, in fathoms, *10*
Nature of bottom, *Mud*
Direction of ~~surface~~ ^{wind} current, *NE Force 3*
Force of ~~surface~~ ^{drift} current, *NE 1/4*
Direction of bottom current,
Force of bottom current,
Name of vessel, *Fish Hawk*
To what service attached, *W. Fish Com*
Name and rank of commanding officer, *Lt. L. L. Lanner USA*
Name and position of observer, *J. B. Child*
M. D. W.

1137
REMARKS.

Specific Gravities

Surface	1.0242	67
5 fms	42	67
10 "	42	67

Trawl over 6:12 down 6:20

hauled in 6:45 of 7:00 370 fms out

at 7:00 sounded in 141 fms

Physic Chestnut 1

Scorpaena (1)

Dorulus (1)

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1137

Date,

Sept 8th 1882

Locality,

Off Block Island

Bearings,

*Lat 39-40' N
Long 71-52' W*

Time of day, *6:00 am.*; of tide,

State of sky,

bc

Temperature of air,

68

“ surface of water, *70*

“ at depth of *5* fathoms, *69 10 fms 62 1/2*

“ of bottom, *46*

Depth, in fathoms,

173

Nature of bottom,

fine sand, pebbles, gravel

Direction of surface current,

Calcut

Force of surface current,

Drift NW 1/2

Direction of bottom current,

Temperature at 5 fms

Force of bottom current,

Name of vessel,

Fish Hawk

To what service attached,

US Fish Comm

Name and rank of commanding officer,

Lt. Z. L. Tanner USN

Name and position of observer,

*J. M. Smith
Midst USN*

1138

REMARKS.

Specific Gravities
 Surface 1.024170
 5 fms 4170
 10 " 4171

Trawl over 7.30 down 7.35
 heavy in 500 up 8.15

350 fms out

Merluccius filineus 4
Physic Chesteri (4)
Halientara dentata 1
Naria radiata 1
Macrurus crinatus

Trawl & landed
 4 for fishes during the
 night. Lengths from 6'6" to 7'

TEMPERATURE RECORD.

Instrument used,

Deep Sea Trawl

Current number of observation,

1138

Date,

Sept 26 1882

Locality,

off Block Island

Bearings,

Lat $39^{\circ} - 39' N$
Long $71^{\circ} - 54' W$

Time of day,

7.24 ; of tide,

State of sky,

bc

Temperature of air,

72

" surface of water,

71

" at depth of 5 fathoms,

70

" of bottom,

46

Depth, in fathoms,

168

Nature of bottom,

soft ^{fine} sand & pebbles

Direction of surface current,

Calum

Force of surface current,

Drift 2 W 1'

Direction of bottom current,

Force of bottom current,

Name of vessel,

Fish Hawk

To what service attached,

US Fish Comm.

Name and rank of commanding officer,

L. L. Lanner USN

Name and position of observer,

W. B. Smith
USN

1139

REMARKS.

Specific Gravities

Surface	1.0236	75
5 fms	38	71
10 "	39	72

Trawl over 9.00 down 9.10
 heaving in 9.40 up 10.00

550 fms out

Scaphus few
 Unknown

TEMPERATURE RECORD.

Instrument used, *Deep Sea Trawl*

Current number of observation, *1139*

Date, *Sept 8th 1882*

Locality, *Off Block Island*

Bearings, *Lat 39°-37' N
Long 71°-55' W*

Time of day, *848* ; of tide,

State of sky, *bc*

Temperature of air, *74*

“ surface of water, *72*

“ at depth of *5* fathoms, *70 10 fms 64*

“ of bottom, *44*

Depth, in fathoms, *291*

Nature of bottom, *mud*

Direction of surface current, *drift NW force 1*

Force of surface current, *drift NW x W 1 1/2*

Temperature at *95 fms 67 212 496 49*

Direction of bottom current, *“ 95 “ 49N 47995*

Force of bottom current, *“ 45 “ 49 47992*
“ 25 “ 47 47993

Name of vessel, *Fish Hawk*

To what service attached, *US Fish Comm*

Name and rank of commanding officer,
Lt. L. Lanier USN

Name and position of observer,
*J. B. White
Master USN*

1140

REMARKS.

Specific Gravity

Surface 1.0240 73

5 fms 39 73

10 " 39 73

Trawl over 10,43 down 10,58
 heavy in 11,32 of 12,00
 675 fms out

Geryon quinqueatus ^{large} sev. "
~~ben~~

Sabinea princeps

Pandalus pediculus

Aechaster Agassizii

Amitra lifarina 1

Lycodes fragilis 1

Macrurus Bairdii new

Sarcelus 2

Physic Chesteri

Glyptocerus cynoglossus 3

Synaptobranchus pinnatus

TEMPERATURE RECORD.

Instrument used,

Wref Rea Trawl

Current number of observation,

1140

Date,

Sept 8th 1882

Locality,

Off Block Island

Bearings,

*Lat 39°-34' N
Long 71°-56' W*

Time of day, *10:35* ; of tide,

State of sky,

bc

Temperature of air,

78

" surface of water, *73*

" at depth of *5* fathoms, *72 10/100 68*

" of bottom, *40*

Depth, in fathoms,

374

Nature of bottom,

*fine sand with many foraminifera
soft mud & gravel*

Direction of surface current,

drift NW Force 2

Force of surface current,

2 1'

Direction of bottom current;

*Temperature at 95 fms 48 1/2
25 " 49
" " " 45 " 49*

Force of bottom current,

" 25 " 53

Name of vessel,

Fish Hawk

To what service attached,

USF with Gun

Name and rank of commanding officer,

Lt. L. L. Lanier USN

Name and position of observer,

*J. J. Schick
Master USN*

1141

REMARKS.

Specific Gravities

Surface 1.0238 74

5 fms 38 74

10 " 39 74

Trawl over 12,42 down 12,52

hauled in 1,25' up 1,45'
700 fms out

In trawl-nets

Pleuropods, - bryozoa papil-
ionacea + bryozoa
longirostris, bathalve.

Trawl-net empty

Scopelus 14)

TEMPERATURE RECORD.

Instrument used,

Dry Ice Bowl

Current number of observation,

1141

Date,

Sept 8th 1882

Locality,

off Block Island

Bearings,

*Lat 39°-32' N
Long 71°-57' W*

Time of day, *12 27* ; of tide,

State of sky,

bc

Temperature of air,

80

“ surface of water, *74*

“ at depth of *5* fathoms, *73 10 pm 70*

“ of bottom, *4 0*

Depth, in fathoms, *389*

Nature of bottom,

Sand & mud

Direction of surface current,

Wind NE Force 2

Force of surface current,

Drift W x NW 1'

Direction of bottom current,

95 fms 6-1

Force of bottom current,

95 " 5-1

40 " 5-3

20 " 5-9

Name of vessel,

Fish Hawk

To what service attached,

USF with Comm

Name and rank of commanding officer,

Lt. F. L. Lanner USA

Name and position of observer,

*J. J. Smith
Midv USA*

1142

REMARKS.

Specific Gravities

Surface 1.0238 74
 5 fms 89 74
 10 " 49 74
 Trawl over 205 down 220
 heaving in 240 up 307
 600 fms out

Acanella Normani

Cothurniculus microphus
Glyptocephalus Daindii
Dysodes Verrillii
Synaptobranchius pinnatus 3
Halientera senticosa
Physic Chesteri
Nemichthys scolopacea
 Caught a 7ft shark
 on surface

TEMPERATURE RECORD.

Instrument used,

Wasp Die Bowl

Current number of observation,

1142

Date,

Sept 8th 1882

Locality,

off Block Island

Bearings,

*Lat 39°-32' N
Long 72°-00' W*

Time of day, *1.52* ; of tide,

State of sky,

*bc
80*

Temperature of air,

" surface of water, *74*

" at depth of *5* fathoms, *74* *10 fms* *72*

" of bottom, *41*

Depth, in fathoms, *322*

Nature of bottom,

ground with sand & pebbles

Direction of surface current,

ground NW Force 1

Force of surface current,

about W x S 1/2

Direction of bottom current,

95 fms 72

Force of bottom current,

*96 " 50
40 " 48
20 " 71*

Name of vessel,

Fish Hawk

To what service attached,

US Fish Comm

Name and rank of commanding officer,

Lt. F. L. Fanner USN

Name and position of observer,

*J. B. Smith
USN*

1143

REMARKS.

Specific Gravity

Surface	1.0238	74
5 fms	38	74
10 "	39	75

Trawl over 3.52 down 4.05
heaving in 4.40 up 5.10

740 fms out

At 515 rounded in 412 fms

Haloforphyrus viola 4

Macrurus Bairdii

Synaptobranchius pinatus

Colturanella microps 1

Glyptocephalus cynoglossus 5

Lycodes faxillus 1

Unknown fish 1

TEMPERATURE RECORD.

Instrument used,

Wep Sea Trawl

Current number of observation,

1143

Date,

Sept - 8th 1882

Locality,

Off Block Island

Bearings,

Lat 39° 29' N
Long 72° 01' W

Time of day, 8 36 ; of tide,

State of sky,

bc

Temperature of air,

80

" surface of water,

74

" at depth of 5 fathoms,

73 10 fms 73

" of bottom,

40

Depth, in fathoms,

452

Nature of bottom,

Mud

Direction of surface current,

Drift west force 1

Force of surface current,

2 1/2

Direction of bottom current,

Temperature at 95 fms 71 (even)

Force of bottom current,

40 49
20 55

Name of vessel,

Fish Hawk

To what service attached,

US Fish Comm

Name and rank of commanding officer,

Lt. L. L. Lawrence USN

Name and position of observer,

W. H. Ship
W. H. Ship

1144

REMARKS.

Specific Gravities

Surface 1.0240 72

5 fms 40 73

10 " 41 72

Trawl over 6:16 down 6:30
heavy in 6:50 up 7:41

7:50 fms out

Lost Trawl-net

TEMPERATURE RECORD.

Instrument used,

Wright's Trawl

Current number of observation,

1144

Date,

Sept 8th 1882

Locality,

Off Block Island

Bearings,

*Lat 39° 31' N
Long 72° 00' W*

Time of day,

6:00 PM, of tide,

State of sky,

b.c.

Temperature of air,

75

" surface of water,

74

" at depth of

5 fathoms,

73 at 10 pm 72

" of bottom,

41

Depth, in fathoms,

386

Nature of bottom,

soft mud

Direction of surface current,

round WSW Force 1

Force of surface current,

Drift North 1'

Direction of bottom current,

Temperature at 95 fms 48

Force of bottom current,

*" 95 " 50
" 50 " 50
" 30 " 60*

Name of vessel,

Fish Hawk

To what service attached,

US Fish Comm.

Name and rank of commanding officer,

St. L. L. Lawrence USN

Name and position of observer,

*W. B. Lish
Midu USN*

REMARKS.

INTERVIEW RECORD

REMARKS.

TEMPERATURE RECORD.

Instrument used, *Cod trawls.*

Current number of observation, *1146,*

Date, *Sept. 21st, 1882*

Locality, *Off March's Vineyard.*

Bearings, *Lat. 40° 02' N,*
Long. 70° 41' W.

Time of day, _____ ; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of _____ fathoms,

“ of bottom,

Depth, in fathoms, *130-150,*

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel, *Sch. Josie Reeves.*

To what service attached,

Name and rank of commanding officer, *J. W. Collins.*

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, *Cod trawls.*Current number of observation, *1147.*Date, *Sept. 22, 1882*Locality, *Off Martha's Vineyard.*Bearings, *Lat. 40° 02' N**Long. 71° 02' W.*

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms, *125.*

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel, *Sch. Josie Reeves.*

To what service attached,

Name and rank of commanding officer, *J. W. Collins.*

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, *Cod trawls*

Current number of observation, *1148.*

Date, *Sept. 23, 1882.*

Locality, *Off March's Vineyard.*

Bearings, *Lat. 39° 54' N.*

Long. 71° 22' W.

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms, *100 - 125,*

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel, *Sch. Josie Reeves*

To what service attached,

Name and rank of commanding officer, *J. M. Collins*

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, *Lead Trawls.*

Current number of observation, *1149.*

Date, *Sept. 23, 1882.*

Locality, *Off Martha's vineyard.*

Bearings *Lat. 39° 50' N.*
Long. 71° 25' W.

Time of day, ; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms, *110.*

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel, *Sch. Erie Reeves,*

To what service attached,

Name and rank of commanding officer, *J. M. Collins,*

Name and position of observer,

1150

REMARKS.

~~1025362~~

Position of N end of
trawl line

Lat. $24^{\circ} - 00' N$

Long. $70^{\circ} - 37' W$

Physic Chesteri - 3

Physic tenuis - 1

Paralichthys oblongus - 1

Very few mollusca

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1150

Date,

Oct 4th 1882

Locality,

Off Martha's Vineyard

Bearings,

Lat 39°-58'N

Long 70°-37'W

Time of day,

6:35

; of tide,

State of sky,

bc

Temperature of air,

65

"

surface of water,

62

"

at depth of

5

fathoms,

62 (from 61 1/2)

"

of bottom,

47

Depth, in fathoms,

140

Nature of bottom,

sand

Direction of surface current,

Wind WNW 2

Force of surface current,

Drift East 1/2'

Direction of bottom current,

Force of bottom current,

Name of vessel,

Fish Hawk

To what service attached,

US Fish Comm

Name and rank of commanding officer,

H. F. Fanner USN

Name and position of observer,

*J. J. [unclear]
[unclear] USN*

1151

REMARKS.

Pitheichthys arctifrons,*Sophus piscatorius* - 2*Scorpaenus dactyloptera* - 1*Macurus bairdii juv* - 1*Merluccius bilinearis* - 1*Raja radiata juv* - 4*Physis tenuis* - 3*Paralichthys oblongus* 4*Scopelus (mutitatus)* - 1

Mollusca

Pleurobranchia tarda 7*Cymbolia* + a few dead

shells

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1151

Date,

Oct 4th 1882

Locality,

Off Martha's Vineyard

Bearings,

*Lat 39°-58'-30" N
Long 70°-37'-00" W*

Time of day, *7.45* ; of tide,

State of sky,

bc

Temperature of air,

66

" surface of water,

62

" at depth of *5* fathoms,

62 10 fms 62

" of bottom,

48

Depth, in fathoms,

125

Nature of bottom,

sand

Direction of surface current,

wind WNW 2

Force of surface current,

Drift East 21

Direction of bottom current,

Force of bottom current,

Name of vessel,

Fish Hawk

To what service attached,

U.S. Fish Comm

Name and rank of commanding officer,

Lt. Z. Y. Tanner USN

Name and position of observer,

*W. S. ...
Midu USN*

1152

REMARKS.

Dye 8

surf	1,0253	61
5 pm	53	60 1/2
10 pm	54	60

Physiculus - 7*Sophus piscatorius* - 1*Scorpaena dactyloptera* - 4*Paralichthys oblongus* - 1*Melucius bilinearis* - 3*Macrurus carminatus* - 1*Styptocephalus cynoglossus* - 1*Physiculus* - 8*Raja Eglantina* - 1*Pleurobranchia tarda* - 1*Octopus Baurdii* - 1*Cypridolia*

a few dead shells

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1152

Date,

Oct 4th 1882

Locality,

Off Martha's Vineyard

Bearings,

Lat $39^{\circ}58'N$
Long $70^{\circ}35'W$

Time of day,

8.42 ; of tide,

State of sky,

bc

Temperature of air,

68

" surface of water,

62

" at depth of 5 fathoms,

62 10 fms 62

" of bottom,

48

Depth, in fathoms,

115

Nature of bottom,

Sand

Direction of surface current,

Wind NW 3

Force of surface current,

East $1\frac{1}{2}$

Direction of bottom current,

95 47 995

Force of bottom current,

45 $4\frac{1}{2}$ 47 992

Name of vessel,

Fish Hawk

To what service attached,

US Fish Comm

Name and rank of commanding officer,

Lt I. L. Tanner USN

Name and position of observer,

J. B. Lish
Mid USN

1153

REMARKS.

Sp. Saville

5 fms	1.0251	63
5 fms	51	63
10 fms	53	62
10 fms		

Halilutera sentiosa - 1
Glyptocephalus cynoglossus - 1
Macrurus Bairdii many
Physio Chestni many
Palaemonetes - 1

Dysodius Virilli - 1

Mercierius bilinearis - 6

Enchelyopus Cimbrius - 1

Scopelus (mühlstedtii)

Large haul but not very great variety of species

Polocera Ludia very small

Urticina callosa " "

Urticina nodosa " "

No sample of bottom was brought up - apparently a very soft mud

Lernaealania septentrionalis 8

Pecten vibreus

TEMPERATURE RECORD.

Instrument used,

Trawl

Current number of observation,

1153

Date,

Oct 4th 1882

Locality,

off Martha's Vineyard

Bearings,

Lat $39^{\circ}54'N$

Long $70^{\circ}37'W$

Time of day, 10.45; of tide,

State of sky,

bc

Temperature of air,

70

“ surface of water,

62 1/2

“ at depth of 5 fathoms,

62 10/100 + 61

“ of bottom,

44

Depth, in fathoms,

225

Nature of bottom,

sand & green mud

Direction of surface current,

drift NW 3

Force of surface current,

1 1/2 mi/hr

Direction of bottom current,

drift at 95. 45

Force of bottom current,

257 52

Name of vessel,

Fish Hawk

To what service attached,

US Fish Comm

Name and rank of commanding officer,

Lt L L Tanner USN

Name and position of observer,

J J Sabin
USN

1154

Jf. Grav. REMARKS.

Surf	1.0253	60 1/2
5 fms	53	61
10	54	62

Trawlers 12.14 down 12.23 haul in 1.07 of 125
 7 fms out -

Halimeda lenticosa

Rana eglanteria

Macrurus Bairdii

Styptocephalus acroporus few

Physic Chesteri few

Merluccius bilinearis few

Chester Fish Trap

Myxine glutinosa 3

Chester Fish Line

Physic tenuis 35

Rana ocellata 4

Lophius piscatorius 3

Similar to last haul.

Ayalinocia very abdt

Urticina nodosa abdt

Sagartia abyssicola abdt

Not *Polosoma* or *U. Callosa*?

Very rich in mollusca

48 species

TEMPERATURE RECORD.

Instrument used, *Trawl*
 Current number of observation, *1154*
 Date, *Oct 4th 1882*
 Locality, *off Martha's Vineyard*
 Bearings, *Lat 39°-55'-31" N 60z*
 Long 70°-39'-00" W
 Time of day, *12:10* ; of tide,
 State of sky, *bc*
 Temperature of air, *62*
 " surface of water, *62 1/2*
 " at depth of fathoms,
 " of bottom, *not taken*
 Depth, in fathoms, ~~*193*~~ *193*
 swath
 Nature of bottom, *gn mud*
 mud NW
 Direction of surface current, *drift NW*
 drift N by W 1 1/2
 Force of surface current, *3*
 Force 25 - 60
 Direction of bottom current, *45 - 46*
 Force 25 - 48
 Force of bottom current, *25 - 48*
 Name of vessel, *Fish Hawk*
 To what service attached, *US Fish Comm*
 Name and rank of commanding officer,
 Lt. L. James USN
 Name and position of observer,
 J. J. Hobbs
 Master USN

1155

REMARKS.

Sp. Swan

Aug	1.0253	62 1/2
5 pm	52	62
10 pm	53	61

Trawl on 428 down 50

haul in 520 of 554

840 fms out

Gryphaena Rupicola - 2
 Unknown in trawl tows
Haloporphyrus viola.
Macrurus Bairdii -
Archaster Agarizii 30 medium

No mollusca except 1 dead
Pteropod

TEMPERATURE RECORD.

Instrument used, *Deep Sea Trawl*

Current number of observation, *1155*

Date, *Oct 4th 1882*

Locality, *Off Martha's Vineyard*

Bearings, *Lat 39-52' N*

Long 70-30' W

Time of day, *4.06* ; of tide,

State of sky, *bc*

Temperature of air, *64*

" surface of water, *63*

" at depth of *5* fathoms, *62.10 plus 61*

" of bottom, *40*

Depth, in fathoms, *535 = 554*

Nature of bottom, *Sand & soft green mud*

Direction of surface current, *Drift NW 3*

Force of surface current, *1/2*

Direction of bottom current, *Temp at 95 fms 48*
50 54

Force of bottom current, *30 47*

Name of vessel, *" 20 " 48 46998*
Flat Hawk

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

Name and rank of commanding officer,

Lt. L. L. Fanner, U.S. Navy.

Name and position of observer,

Josiah
Mitchell

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current, .

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD

21