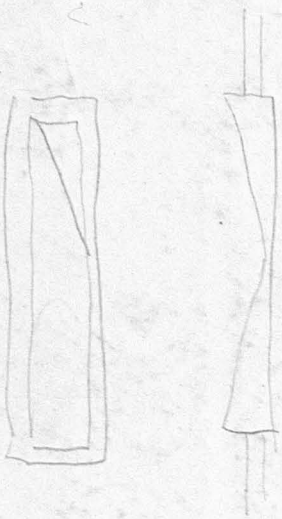
ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

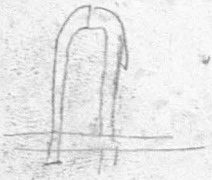
STATION NUMBERS

Numbers 1074 to 1122

927 Marot



S 25° E Nerita
S 63° W NKE



Rec of W & K
Cap Cod

S 26 E

67-45 883/24
4-39 44
50
2200
69-50

S 33° E

N by W 1/2 W

cc S 15° W N W S 24° W
Rec S 45° W N W S 80° W

due 17-24-54 39.5
3-54 4 2/3
17-25-50 1584
263
184.3

cc S 60° W N E S 54° W
S W 3/4 W

70° W
69-30
Ist 16-05-37 @ 63°-5 @
due 17-25

B 1074

Remarks

Put over 1 Beam Trawl at 1.10 P.M. in 18 fathoms of water - at 1.30 hove in Trawl - Containing - 2 Dozen Shrimp, 1 Small Sturgeon - about one foot long. and 2 doz. Small ~~perch~~. Rock fish - Several young Mentaden - 1 perch several flounders (2 Kinds)

Thus. 1st ⅟11 St. 10. N. & W. 12. W. 4, 3/4

1074

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1074

Date, March 11 – 1882

Locality, Off Kent Island

Bearings, South point of Kent Island bearing E x N. 1 1/4

Time of day, 1.10 P.M. ; of tide, Ebb

State of sky, Clear

Temperature of air, 51

" surface of water,

" at depth of fathoms,

" of bottom, 41

Depth, in fathoms, 18 – 12 – 11

Nature of bottom, Black mud

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

Force of ~~surface current,~~ Wind 3

Direction of ~~bottom current,~~ Drift S.S.W. 1 mi

Force of bottom current,

Name of vessel, "Fish Hawk"

To what service attached, Fish Commission

Name and rank of commanding officer, Lieutenant G. L. Tanner, U.S.N.

Name and position of observer,

1075

REMARKS.

Travel was put over in 14 Parts of water at 9.45 A.M. At 10 A.M. Move in Trans-Containing several small Rock also some young Crawfish.

1075

N.Z. 47995

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1075

Date, Mar 13 1882

Locality, Off Kent Island

Bearings, Sandy Pt. Lt. N.x W. 1/4 W

3.1/2

Time of day, 9.45 A.M. of tide, flood

State of sky, Partly Cloudy

Temperature of air, 45

" surface of water, 43

" at depth of fathoms,

" of bottom, 40

Depth, in fathoms, 14 — 11 —

Nature of bottom, mud

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

Force of ~~surface current~~, Wind 5

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

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, Fish Commission

Name and rank of commanding officer, Lieutenant

J. L. Tanner, U.S.N.

Name and position of observer,

REMARKS

REMARKS.

Put Oyster Dredge over at 2.20 P.M. in 6 fms of water – at 2.27 have in Dredge – Containing

TEMPERATURE RECORD.

Instrument used, Oyster Dredge

Current number of observation,

Date, Mar 11 / 1882

Locality,

Bearings,

Time of day, 2.20 P.M. of tide,

State of sky, Partly Cloudy

Temperature of air, 28

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms, 6 - 7 -

Nature of bottom, Mud

Direction of ~~surface current~~, Wind

Force of ~~surface current~~, Wind

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

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, Fish Commission

Name and rank of commanding officer, Lieutenant

Z. L. Tanner, U.S.N

Name and position of observer,

1076

REMARKS.

Beam Trawl was put over at 10.15 in 15 fathoms of water. Hove up Trawl at 10.36 am it containing several small Roale, flounder and 2 small Crumpish

1076.

(N.Z. 47995.)

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1076

Date, Mar. 13. 1882.

Locality, Off Kent Island

Bearings, Sandy Pt. Lt. N.X.W ½ W 3'

Time of day, 10.15 am; of tide, Flood

State of sky, Partly Cloudy

Temperature of air, 45

" surface of water, 43

" at depth of fathoms,

" of bottom, 40

Depth, in fathoms, 15

Nature of bottom, Mud.

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

Force of ~~surface current~~, Wind 5

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

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, Fish Commission

Name and rank of commanding officer, Lieutenant

H. L. Tanner, U.S.N.

Name and position of observer,

1077

REMARKS.

Put over Beam Trawl at 10.55 am in 4 fathoms of water at 11.18 hove up Trawl. Net containing several small Rocks, Flounders & some small Crangick

1077

TEMPERATURE RECORD.

Instrument used, Beam Trawl.

Current number of observation, 1077

Date, March 13, 1882

Locality, Off Kent Island

Bearings, Sandy Pt. Lt. W. N. N. W.

2 1/4

Time of day, 10.55 am of tide, Flood

State of sky, Partly Cloudy

Temperature of air, 49

" surface of water, 43

" at depth of fathoms,

" of bottom, 40

Depth, in fathoms, 11 – 12.

Nature of bottom, Blue mud.

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

Force of ~~surface current~~, Wind 5

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

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, Fish Commission

Name and rank of commanding officer, Lieutenant

Z. L. Tanner, U.S.N.

Name and position of observer,

REMARKS

1078

REMARKS.

Water Specimens.

Apparatus used;

Depth of specimen	Sp. gravity	temp	corrected
Surface	1.0234	64	
5 fms	1.0235	64	
10 fms	1.0240	60	

Astrophyton Agassizii abundant
Alcyonium carneum rare
Strongylocentrotus droebachiensis 1
Asterias vulgaris
Ctenodiscus crispatus
Leptasterias comptus
Rossia Hyatti
Cyprina islandica
Fusus decemcostatus
Buccinum undatum
Eupagurus
Pandalus 2
Ophiopholis aculeata
Mysis? , Solaster endeca large

Sipho Stimpsonii
Sebastes marinus 4
Glyptocephalus cynoglossus 6
Anomia glabra 1
Hippoglossoides platessoides 1
Tautoga lobatus 1
Prionotus carolinus 1
Raia radiata

Fungia Fungiei many
{All bearings magnetic.}

TEMPERATURE RECORD.

Instrument used, Frank -

Current number of observation, 1078

Date, Aug 2d 1882

Locality, Cape Cod

Bearings, Nauset Beacons
NW ¼ N dist 10 m

Time of day, 7-30 AM Stage of tide,

State of sky, b c

Temperature of air, 72° Sig. Service Ther.

" surface of water, 63 h.g. #47996.

" at depth of 5 fathoms, 56° at 10 fms 40

" of bottom, 37 - h.g. #47995

Depth, in fathoms, 53 = 55

Nature of bottom, gn. mud fr sand

Direction of ~~surface current~~ Wind, W S W. Force 3.

Force of ~~surface current~~ Drift - S by W ½ m.

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

Name and rank of commanding officer,
Lieut. B.L. Farmer, U.S. Navy.

Name and position of observer,
J.W.B. Lish.
Midn, U.S. Navy.

REMARKS

1079

REMARKS.

Water Specimens

Depth	Sp. grav.	Tem.	Corrected to 60
surface	1.02325	64	
5 fm	1.023	64	

Hippoglossoides platessoides
Rana radiata 4
Phycis chuss x tenuis

Astrophyton Agassizii abundant
Lepta discocoelatus live jun.
Cyprina islandica dead
Macoma tabulosa
Terebratulina septentrionalis
Sagacara arctica +
Glycimeris siliqua
Eggs of Buccinum undatum
Anomia aculeata
Astarte sulcata 1 valve
Eggs of a gasteropod
Hippocephalus
c Urticina ~~rodosa~~ callosa

1079
Instruments same as 1078

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1079

Date, August 2nd 1882

Locality, Cape Cod

Bearings, Nauset Beacon
NWby W½W d. 8¼ m

Time of day, 8-40 AM; of tide,

State of sky, bc

Temperature of air, 69°

" surface of water, 63.5°

" at depth of 5 fathoms, 56.5 at 10 fms 44

" of bottom, 37

Depth, in fathoms, 59=61.5

Nature of bottom, fine sand

Direction of ~~surface current~~, Wind NNW Force 3

~~Force of surface current~~, Drift ESE 1 mile

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,
Lieut. J. L. Tanner USN

Name and position of observer,
J. B. Bish
Midn USN

1080

REMARKS.

Water Specimens

Depth	Sp. grav.	Temp	Corr. to 60°F
Surf	1.0234	62.5	
5 fms	1.0242	58	
10 fms	1.024	58.5	

Sipho decemcostatus

? Atyas ? Astrophyton very abdt.

Eulagesus

? Accinia vulgaris ✗ very large

Protenta islandicus live

Lunicama Monrica 1 good fair

" arctica

Cyprina islandica dead

Glycimeris dead

Cardium islandicum d.

Sipho stimpsonii live

Macoma obtusa

Buccinum undatum live small & dead

Astarte occidentalis d

Anomia aculeata

Eulagesus

c Hippodatesia phrygiana

c Solaster endeca Raia

c Urticina crassicornis Glyptocephalus

c Boloceera tuediae Stichopus

c Cyanodiscus crispatus

Cha

Merlucius bilinearis

Hippoglossoides platessoides.

Raia radiata

Schools Marinus
Gluttus morrhua
Instruments same as 1078

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1080

Date, Aug 2nd 1882

Locality, Cape Cod

Bearings, Nauset Beacons
NW by W 1/2 W dist 6 1/2 m

Time of day, 9-40 am of tide,

State of sky, Vc

Temperature of air, 69

" surface of water, 61.5

" at depth of 5 fathoms, 56 at 10 fms 45

" of bottom, 37

Depth, in fathoms, 53 = 55 fms

Nature of bottom, fine sand

Direction of ~~surface current~~, Wind WSW Force 2

Force of ~~surface current~~, Drift WNW 1 mile

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

Name and rank of commanding officer,
Lieut. L. L. Lanier U.S.N.

Name and position of observer,
J. W. Bish
Midn U.S.N.

1081

REMARKS.

surface	1.0234	62
3 fms	1.0235	61
10 fms	1.0247	53

Cardium Icel 1 d
Glycimeris deliqua 16 d
Cyprina Icel. many d
Spisula oralis " d
Modiolaria discors? 1 alive
Pecten Leland 1 frv. d
Pascacora arctica alive
Buccinum undatum frag
Macoma balthica 3
Lepton decemcostatum 4 +
Astiphoroides monopterygius
Liparoides
Gymnocephalus cynoglossus
Lebestes marinus
Opsophoxiles platessoides
Lycenchelys anguillaris
Ammodytes americanus

Instruments same as 1078
NZ #7998 used for a check on
bottom temp.

TEMPERATURE RECORD.

Instrument used, Lawl

Current number of observation, 1081

Date, Aug. 2nd 1882

Locality, Cape Cod

Bearings, Nauset Beacons
W by S dist. 5½ mi

Time of day, 10-50 ; of tide,

State of sky, Vc

Temperature of air, 69

" surface of water, 59

" at depth of 5 fathoms, — at 10 fms 40

" of bottom, 39

Depth, in fathoms, 32 = 33.5

Nature of bottom, crs gvl & pebbles

Direction of ~~surface current~~, wind WSW Force 2

Force of ~~surface current~~, drift N W by N 1 mile

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,
Lieut. J. L. Lamar U.S.N.

Name and position of observer,
J. B. Bish
Midn U.S.N.

1082

REMARKS.

Depth	Sp grav	Temp
surface	1.0235	62
5 fms	1.0240	57
10 fms	1.0245	58

Glycimera
Spirula ovalis
Modiolo modiolus
Sebasteo marinus

Insts. same as 1078

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1082

Date, Aug. 2nd 1882

Locality, Cape Cod

Bearings, Cape Cod Light-House NW 3/4 N dist 1 1/2 miles

Time of day, 11-45 ; of tide,

State of sky, Vc

Temperature of air, 70

" surface of water, 59

" at depth of 5 fathoms, at 10 fms

" of bottom, 40

Depth, in fathoms, 27 = 28

Nature of bottom, coa gvl.

Direction ~~of surface current~~, wind WSW Force 1

~~Force of surface current~~, Drift NWbyN 1/4 m

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, Lieut. G. L. Launer, USN

Name and position of observer, J. B. Bliss Midn, USN.

1083

REMARKS.

surface	1.0230	66
5 fms	1.0231	64
10 "	1.0227	67.5

Cifrina Islandica 3 or 4 valves
Affortanis occidentalis frag.
Hyperoenis gibba
Lipho Simpsonii 1 –
Protelu islandicus 1 fur +
Lepeta coeca ?
Entaguirus
? Solanderi embryo few small
Ptarcles morinus
Mysto alphalus cynoglossus

Instruments same as 1078

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1083

Date, Aug. 2 1882

Locality, Cape Cod

Bearings, Cape Cod Light House
WbyN dist. 15 miles

Time of day, 12-45 PM; of tide,

State of sky, Vc

Temperature of air, 77

" surface of water, 64

" at depth of 5 fathoms, 59? at 10 fms. 42

" of bottom, 38

Depth, in fathoms, 80 = 83.5 fms

Nature of bottom, no specimen on lead or trawl

Direction of ~~surface current~~, Wind WSW Force 1

Force of ~~surface current~~, Drift WSW 1/2 mile

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Hawk

Name and rank of commanding officer,
Lieut. J.L. Tanner USN

Name and position of observer,
J.B. Blish
Midn USN.

1084

REMARKS.

surface 1.02325 66
5 fms 1.0235 65
10 fms 1.0236 63

c Pentada frondosa 1 very large
? Bolocera tuediae
Cucumaria lefroeni?
Hyas
Pecten islandicus fragt
Spisula ovalis many –
Glycimeris siliqua 1 –
Cyprina islandica 2 or 3
ipso Stenopora 1 large –
Pecten tenuicostatus frag
Eupagurus
Balanus ? forcatus? frag
Asworia acubiata
? Solaster endeca small
? Asterias vulgaris 1 large
c Hyfasterias phrygiana
? Leptasterias tenuipes small
Worms frag
Lepadogaster maximus
Hippoglossoides platessoides
Pronotus carolinus
Gnamo anguillaris

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1084

Date, Aug 2nd 1882

Locality, Cape Cod

Bearings, Cape Cod Light House WNW 3/8 W dist. 8 miles

Time of day, 2-20 PM; of tide,

State of sky, bc

Temperature of air, 78

" surface of water, 62,5

" at depth of 5 fathoms, at 10 fms. 43,5

" of bottom, 38 ±

Depth, in fathoms, 36 = 37,5

Nature of bottom, coarse sand

Direction of ~~surface current~~ wind, WSW Force 2

~~Force of surface current~~ Drift, WSW 1 mile

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

Name and rank of commanding officer,

Lieut. J. E. Lamer, U.S.N.

Name and position of observer,

J. W. Blish, Midn. U.S.N.

1085

REMARKS.

Depth	Specific Gravity	Temp.	Sp. grav. corr. to 60°F.
Surface	1.0233	64	
5 fms	1.0233	64	
10 fms	1.0241	60	

c Astrophyton (very abundt)
Cancellaria
9 Strongylocentrotus droebachiensis (juv)
7 Alcyonium carneum, Eupagurus
9 Asterias vulgaris, Leptasterias compta
c Crossaster papposus (small)
9 Leptasterias polaris (very large)
0 Pleuronectes cuneata
Cyprina islandica (many)
Cardium islandicum (2)
Sassacava arctica 14
Buccinum undatum albus 2
Lepto Stimpsoni 14 juv
Neptunea ventricosa
Pecten tenuicostatus
Astarte borealis
Spisula solida
Mytilus occidentalis
Pecten islandicus 8 +
Rhinoraja radiata 4
Hippoglossoides platessoides
Macrozoarces anguillaris
Gadus morhua
Cottus octodecimspinosus

Lophopsetta maculata
Limanda ferruginea
Lepto pleuronectes quadrituberculatus
Lepto olivaceus

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1083

Date, Aug 8 & 1882

Locality, Cape Cod

Bearings, Race Point Light House S 33° E distant 2 miles

Time of day, 6.15 AM; of tide,

State of sky, Vc

Temperature of air, 67

" surface of water, 64

" at depth of 5 fathoms, 61 at 10 fms 43

" of bottom, 39

Depth, in fathoms, 33 = 34.5

Nature of bottom, fn. sand & fn mud

Direction of ~~surface current~~ wind, WSW Force 3

~~Force of surface current~~ Drift, SbyE 1 mile

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, Lieut. J. C. Tanner USN

Name and position of observer, J B Bish Warden USN

1086

REMARKS.

1.0231 65

1.0231 64.5

1.023 64

c Astrophyton in immense quantity
c Asterias vulgaris
Pandalus leptocerus
c Ophiopholis aculeata
c Leptasterias tenuispina
? Solaster endeca
? Crossaster papposus
c Alcyonium carneum
? Pentacta frondosa (1 large)
* Same characteristic same as 1081
Sipha decemcostata 2 - large
Modiolus modiolus 3 + 1 -
Cardium islandicum 1 valve
Skenea ovalis m. - valves
Cypraea islandica m. "
Pecten islandicus 2 +
Margarita solvsa 1 +
Saxicava arctica 1 +
Puncturella noachina 1 +
Velutina haliotoidea
Raia radiata
Limanda ferruginea 4
Pleuronectes [illegible] 4

33 m
825 4 p 0.15 mi

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1086

Date, Aug 30 1882

Locality, Cape Cod

Bearings, Cape Race Point L.H.
S 20° W distant 2 3/4 mile

Time of day, 7.00 am; of tide,

State of sky, Vc

Temperature of air, 74

" surface of water, 64

" at depth of fathoms, 10 fms 44

" of bottom, 39.5

Depth, in fathoms, 33 = 34

Nature of bottom, fine sand

Direction of surface current, Wind WSW Force 3

Force of surface current, South 3/4 mile

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,
M. T. L. Tanner USN

Name and position of observer,
J B Bish
Under USN

1087

REMARKS.

Dur 1.0232-63
5 fm 1.0235-61
10 fm 1.0324-58

Broad shells & sponges.
o Hyfactinia 3 Hyas small fm
Pandalus bifocerus
o Bolocera Tuediae
s Bolocera sp. nov? multicornis
Hydroids Bryozoa
o Cribrella sanguinolenta
* Mo astrophyton
? x Rossia?
? x Lufo decaneostata
Cardium islandicum
Modiolus orabis m. -
Cyprina islandica many -
Pecten tenuicostatus many rabs
x Lyrata crassa 1+
Serpula arctica 1+
Bipphysiomedes Alatostide
Gyptocephalus Cynoglossus
Raja Eglanteria
Ascidophorida monopterygius

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1087

Date, Aug 8 1882

Locality, Cape Cod

Bearings, Cape Cod Light House
S 80 W distant 7 miles

Time of day, 8.30 ; of tide,

State of sky, Fe

Temperature of air, 84

" surface of water, 62.5

" at depth of 5 fathoms, 44 10 fms 41

" of bottom, 39

Depth, in fathoms, 42 = 44

Nature of bottom, gray sand mud

Direction of ~~surface current~~, NW Force 2

~~Force of surface current~~, Drift WSW 1/2 mile

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 Lanier USN

Name and position of observer,
J W Bleik
Meteorologist USN

1088

REMARKS.

Sur 1,023 64
5 1,0231 63
10 1,0232 63,5
Affortais occiden 8-
Lifbo decumont 2-
Terebratulina septentrion 8+
Buccinum undat 3- & eggs
Cardium island 1-
Pecten islandi 3+1-
" tenuicost 2+1 valve
Astarte elev 6-
Cyprina island 2-
Leda acuta Torell 4 valves
Anomia aculeata small 4-
H. punctata
Natica clausa 1-
Macoma tabulosa 1-
Modiolaria discors? 1+
? 3 Cephalopoda
? Ustiana nodosa Reymany
? Bolocera tuediae Jen
? " sp. nov.
Pandalus borealis? Hippasteria
? Solaster? Porania
? Cribrella sanguinolenta
Sponges, ? Ophiopholis aculeata
Hippolyte Hydroids & Bryozoa
Euchelicerus cimbria

Centridiscus cytis uncinatus many
Carc pneles
Brotinus flavescens
Debusline maximus
Hippolytus sordes platyrinchus
Rana Hexadactyla

Myriacinus
Velinensis

TEMPERATURE RECORD.

Instrument used, Frawl

Current number of observation, 1088

Date, Aug 8th 1882

Locality, Cape Cod

Bearings, Cape Cod Light House
Bar 3/4 N dist. 9.5 miles

Time of day, 9.50 ; of tide,

State of sky, Vc

Temperature of air, 82.5

" surface of water, 62

" at depth of 5 fathoms, 59.5 at 10 pm

" of bottom, 38

Depth, in fathoms, 86 = 90

Nature of bottom, crs sand

Direction of ~~surface current~~, Wind NW force 3

~~Force of surface current~~, Drift NW 1/2 miles

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, USF Fish Comm

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

Name and position of observer,
J B Shiek
Under USN

REMARKS

1089

REMARKS.

Res 1.0231 65

5 Jun 1.0233 62

10 June 1.0234 62

Came up Empty.

TEMPERATURE RECORD.

Instrument used, Travel (failed)

Current number of observation, 1089

Date, Aug 30 1892

Locality, Cape Cod

Bearings, Cape Cod Lt Ho. S by 3/4 W 14 miles

Time of day, 11.10 AM; of tide,

State of sky, Rc

Temperature of air, 78

" surface of water, 63

" at depth of fathoms,

" of bottom, 38.5

Depth, in fathoms, 106-110

Nature of bottom, grey mud

Direction of surface current, wind NW Force 1

Force of surface current, Drift NW by W 3/4 mile

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, Fish Comm

Name and rank of commanding officer, L. L. Lamer USN

Name and position of observer, [illegible] USN

1090

REMARKS.

Our 1,0227 66
5 fms 1,0233 60
10 fms 1,0233 62.5
Macrura Bairdii 1
Lycodes Verrillii 1
Phycis Chuss 10
Myxine glutinosa 1
Urophycis tenuis cimbrius
Phycis Chuss
Raia Eglanteria
Offartus occidentalis, Cistacara Norvegica
Astarte lens. Yoldia thraciformis, Pecten islandica Mya truncata, Cyprina Islandica.
Dentalium striolatum, D. occidentalis.
Yoldia orbicilla, Nucula proxima
Cardium pinulatum, Leda tenuisculata
Nucula sp.
~~Lycodes Verrillii~~

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1090

Date, Aug. 3d 1882

Locality, Cape Cod

Bearings, Cape Cod Light House
S by W 3/4 W dist 13 3/4

Time of day, 11.50 AM; of tide,

State of sky, Vc

Temperature of air, 81.5

" surface of water, 62

" at depth of 5 fathoms, 56 10 fms 52

" of bottom, 38.5

Depth, in fathoms, 106 = 110

Nature of bottom, Grey mud

Direction of surface current, N by W 1

Force of surface current, Drift N by W 1 mile

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, M. B. Leavitt
Meteorologist

1091

REMARKS.

Water Specimens

Depth	Sp. grav.	Temp.	Reduced to 60°
Surface	1.0238	75	
5 fms	1.0238	75	
10 "	1.024	74	

Paralichthys oblongus ♀ x ♂
Phycis chuss – abundant
Lent down trawl at 0550
Arbacia americanus small, about
Pandalus

Thermometer & hydrometer same as used on Aug 2nd & 3rd

TEMPERATURE RECORD.

Instrument used, Frank

Current number of observation, 1091

Date, Aug 11 1882

Locality, Off Martha's Vineyard

Bearings, Lat 40°-03' N
Long 69°-44' W

Time of day, 5.30 ; of tide,

State of sky, b. c.

Temperature of air, 77

" surface of water, 75

" at depth of 5 fathoms, at 10 fms 62

" of bottom, 46°

Depth, in fathoms, 62 = 65 fms

Nature of bottom, Grey Sand & broken Shells

Direction of ~~surface current~~, Wind NW Force 3

~~Force of surface current~~, Drift NNW Dist 1/2 mile

~~Direction of bottom current~~, Temperature at 7 fms

~~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. Lanier, U.S. Navy

Name and position of observer,
J B Bish
Midn USN

REMARKS

1092

REMARKS.

Surface 1.0237 74
5 fms 1.0236 74
10 " 1.0236 75
Send down trawl at 7.09
reached bottom 7.22 w/ 810
Arakaetes Florae
Pennatula aculeata
Pennatula grandis
Cuthogorgia small, Pandalus
Worm tubes Schizaster fragilis
Letarches formalus
Macrurus Bairdii
Phycis Chesteri (many)
" tenuis "
Monelene asperlanda
Lycodes Verrillii
Lebastes marinus
Merluccius bilinearis few large
Glyptocephalus cynoglossus
Unwinded — Paralychthys oblonga
Pecten islus
Scorpaena dactyloptera
Lophius piscatorius

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1092

Date, Aug 11th 82

Locality, Off Marthas Vineyard

Bearings, Lat 39°-58' N
Long. 69°-42 W

Time of day, 6.54; of tide,

State of sky, Vc

Temperature of air, 79

" surface of water, 75

" at depth of fathoms,

" of bottom, 41

Depth, in fathoms, 194 = 202

Nature of bottom, gray sand mud

Direction of ~~surface current~~, NW Force 3

~~Force of surface current~~, drift NNW 3/4 mile.

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, USF Fish Comm

Name and rank ~~of commanding officer~~,
Lt. L. L. Farmer USN

Name and position of observer,
J. B. Blish
Midn USN

REMARKS

1093

REMARKS.

0	10233	74
5	10237	74
10	10243	73

Trawl over 9.10, started bottom 9.26

trawl up 10.20

Haliotis sentiosa 1

Lifaroid. Synaptobranchus fingalus (new)

Cirrhitichthys 1. Mustelus canis

Cantroolus. Plycis tenuis (2)

Macrurus Bairdii many

Glyptocephalus cynoglossus 1

Flounders (colored & sides)

Centroscyllium ~~fornicatum~~ fabricii

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1093

Date, Aug 11th 82

Locality, Off Martha's Vineyard

Bearings, Lat 39°-56'-00 N
Long 69°-45'-00 W

Time of day, 8.35 ; of tide,

State of sky, Vc

Temperature of air, 82

" surface of water, 75

" at depth of fathoms,

" of bottom, 40

Depth, in fathoms, 336-349

Nature of bottom, Gray sand + blue mud

Direction of ~~surface current~~, Wind NW Force 3

~~Force of surface current~~, Tide NW 1 mile

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, N Fish Comm

Name and rank of commanding officer, Lt Z. L. Tanner USN

Name and position of observer, J. B. Bligh
Mid USN

1094

REMARKS.

Surf 1.0232 77
5 1.0235 76
10 1.0235 76

Travel over 10.35, reached bottom 10.50
up 10.32
at 11.15 got end of lead
128 = 133 bottom sand &
Scorpaena 3, Raia radiata 1 juv
Merluccius (1 large) Vilinearis
Phycis chesteri ostre-
" tenuis
Caraprochus

LENGTH VARIE RECORD

TEMPERATURE RECORD.

Instrument used, Deep-sea Trawl

Current number of observation, 1094

Date, Aug 11, 1882

Locality, Off Martha's Vineyard

Bearings, Lat 39°-57' N
Long 69°-47' W

Time of day, 10.10 ; of tide,

State of sky, bc

Temperature of air, 84

" surface of water, ~~76~~ 76

" at depth of fathoms,

" of bottom, 40

Depth, in fathoms, 289 = 301

Nature of bottom, blue mud

Direction of ~~surface current~~, Wind NW Force 2

Force of ~~surface current~~, Drift NW X N 1 mile

Direction of ~~bottom current~~, Temp 20 fathoms 51 x

Force of ~~bottom current~~, " 30 " 44 x

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Comm

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

Name and position of observer, J. B. Bristol
Ensn USN

x Mr. Barlow affaradus

Oct 10 72°
8 75
20 49

1095

REMARKS.

surf. 1.0235 78
7 1.0236 75
10 1.0236 75

Trawl over 1207 bottom 1225
wf 1.03
at 1.03 sounding 159 = 165
bottom sand.
Macrurus Bairdii (many)
Scopelus, Phycis chuss
Lycodes Verrillii 1
Urticina Nodosa
Schizaster
Synaptobranchus funicolus 3

xx Obs noon.

TEMPERATURE RECORD.

Instrument used, Dredging Trawl

Current number of observation, 1095

Date, Aug 11 82

Locality,

Bearings, Lat 39°-55'-28" N* 82.
Long 69°-47'-00" W

Time of day, 11.55 ; of tide,

State of sky, Clear

Temperature of air, 82

" surface of water, 76

" at depth of 5 fathoms, 75½ at 70 72

" of bottom, 40

Depth, in fathoms, 309 = 321

Nature of bottom, soft green mud

Direction of ~~surface current~~, Wind NW Force 2

Force of ~~surface current~~, Drift NNW ½ W 3/4 mile

Temp at 20 49

Direction of ~~bottom current~~, " 30 47

Force of ~~bottom current~~, 50 45

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commn

Name and rank of commanding officer, Lt. F. L. Tanner USN

Name and position of observer, J B Bligh
Ldr USN

*Temp. at 30 & 50 fms Taken simultaneously using Mr. Baillie's apparatus

BEWARE

1096

REMARKS.

1.0236 70

1.0233 74

1.0236 75

Trawl wt 135 washed bottom 412

Trawl wt 305

Ely fitcephalus cynoglossus

Collimentulus microps

Lepsrodt. Lebastes marinus

Lyncofotrancelus fimatus

Merlucius bilinearis (many)

Phycis chuss (many)

Macrurus Bairdii very many)

Acanella Normani

Cancroctus

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1096

Date, Aug 17, 1882

Locality, Off Martha's Vineyard

Bearings, Lat. 39°-53' N
Long 69°-47' W

Time of day, 1.39 PM; of tide,

State of sky, Vc

Temperature of air, 78

" surface of water, 75½

" at depth of 5 fathoms, 75½ at 10 fms 65

" of bottom, 40

Depth, in fathoms, 305 = 317

Nature of bottom, Green sand

Direction of ~~surface current~~ Wind, NNW Force 3

Force of ~~surface current~~ Drift, NW½N ½ in

Direction of bottom current,

Force of bottom current,

Name of vessel, U.S. Fish Hawk

To what service attached, U.S. Fish Comm

Name and rank of commanding officer,

Lieutenant L. L. Fenner, U.S. Navy

Name and position of observer,

Midshipman J. B. Bleistein
U.S. Navy

1097

REMARKS.

1.0232 74
1.0234 75
1.0233 74

Trawl over 3.20, bottom at 3.32
trawl up 4.15
At 4.05 sounded in 81=85
sand & broken shells
Macrurus carminatus, Melanchye, Scorpæna
Raia radiata, Raia sp.
Phycis chuss
" tenuis
Merluccius bilinearis (abd)
Edoylaster profidus (many)
Astrias Tanneri
Cancer borealis Eufagurus
Ulmnida
Pandalus sp.
Strongylocentrotus many
Halichondria centrosa
Paralachya oblonga 1

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1097

Date, Aug 11 82

Locality, Off Martha's Vineyard

Bearings, Lat 39°-54' N
Long 69-44 W

Time of day, 3 10 ; of tide,

State of sky, hc

Temperature of air, 76

" surface of water, 75 1/2

" at depth of fathoms,

" of bottom, 45

Depth, in fathoms, 152 = 158

Nature of bottom, fine sand

Direction of ~~surface~~ ground current, NW Force 3

~~Force of surface current,~~ drift N 1/2 W 1/2 mi

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. Lamer USN

Name and position of observer, J W Babcock
Midshipman

1098

REMARKS.

surf 1.0237 74
5 fms 1.0237 74
10 fms 1.0238 73½
Trawl over 4,500 bottom 5,00
trawl 5,493
at 5,493 fof sounding 76=79
Physes abyssus Lebarchus
P. lenis
Glyptocephalus cynoglossus
Lirogyphocentrotus Dröbl many
Rossia eglantina

TEMPERATURE RECORD.

Instrument used, Frawl

Current number of observation, 1098

Date, Aug 11 82

Locality, Off Marthas Vineyard

~~Bearings,~~ Lat 39°-53' N
Long 69°-43' W

Time of day, 4 35 ; of tide,

State of sky, Rc

Temperature of air, 78

" surface of water, 75

" at depth of 5 fathoms, 72 at 10 60

" of bottom, 43½

Depth, in fathoms, 150 = 156

Nature of bottom, fine sand

Direction of ~~surface current~~ Wind, NW Force 3

~~Force of surface current~~ Drift NxE 3/4 mi

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, N Fish Comm

Name and rank of commanding officer,
H. L. Jamer USN

Name and position of observer,
J B Black
Mate USN

1099

REMARKS.

	Specific Gravity.	Temp.
Surface	1.0224	74
5 fms	1.0225	72
10 "		

Cynoscion argyrosus
Cynoscion maculata
Pogonias carolinus

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1099

Date, Aug 18th 1882

Locality, Vineyard Sound

Bearings, Nobska Pt Light House
WSW 1/4 W 1 5/8 mile

Time of day, 11.06 ; of tide, Half flood (east)

State of sky, Fc

Temperature of air, 76

" surface of water, 72

" at depth of fathoms,

" of bottom, 71 1/2

Depth, in fathoms, 6

Nature of bottom, Sand & gravel

Direction of ~~surface current~~ Wind, North Force 2

Force of ~~surface current~~ Drift, NE x N 1/2 mile

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. Lawrence USN

Name and position of observer,
J. Woodbridge
Midn USN

1100

REMARKS.

2 ♂ 10224 74
5 10225 72
Stenotomus argyrofe
Porovolus caudinus
Centrofriatis atrarius 2 juv.

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1100

Date, Aug 18 1882

Locality, Vineyard Sound

Bearings, Nobska Pt. Light House

W by N 1/4 N 1 1/4 miles

Time of day, 11.47 ; of tide, Flood (ebb)

State of sky, bc

Temperature of air, 77

" surface of water, 72

" at depth of fathoms,

" of bottom, 71 1/2

Depth, in fathoms, 4 3/4

Nature of bottom, sand & gravel & shells

Direction ~~of surface current~~, Wind North Force 2

~~Force of surface current~~, Drift NE by N 1/2 mile

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. Lanier USN

Name and position of observer,

J. B. Phillips
Mate USN

1101

REMARKS.

Dur 10226 73

4½ 10226 73

Steatornis argyropus Ahdt

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1101

Date, Aug 18 - 82

Locality, Vineyard Sound

Bearings, Nobska Pt Lt Hs

W x S dist 1½ mile

Time of day, 12.15 ; of tide, flood

State of sky, Vc

Temperature of air, 78

" surface of water, 72

" at depth of fathoms,

" of bottom, 71

Depth, in fathoms, 5

Nature of bottom, shells

Direction of ~~surface current~~, Wind North Force 1

Force of ~~surface current~~, drift NE 1 mile

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, USF Fish Comm.

Name and rank of commanding officer,

Lt. L. L. Lanier USN

Name and position of observer,

Jos O Nash
Mdn USN

1102

REMARKS.

Surf. 1,0228 70
1,0229 69
Porionolus carolinus

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 102

Date, Aug 18th 1882

Locality, Vineyard Sound

Bearings, East Chop Lt. House N W 3/4 W Dist 2 1/2

Time of day, 1.10 ; of tide, Slack (high) water

State of sky, OC

Temperature of air, 73

" surface of water, 70

" at depth of fathoms,

" of bottom, 69

Depth, in fathoms, 5

Nature of bottom, coarse sand

Direction of ~~surface current~~, Wind East Force 2

Force of ~~surface current~~, Drift E x S 1/2 mi

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. Jones USN

Name and position of observer, J. W. Collins Mate USN

1103

REMARKS.

Aug. 1,022 8-70

Spring 1,022 8 70

Poecilus carolinus

Lophopsitta maculata

Stenotomus argyropa fw many

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1103

Date, Aug 18th 1882

Locality, Vineyard Sound

Bearings, East Chop Light Ho.

N. W. by W 2 3/4 miles

Time of day, 1.42 ; of tide, Slack | Higher W.

State of sky, O.C.

Temperature of air, 70

" surface of water, 70

" at depth of fathoms,

" of bottom, 69.

Depth, in fathoms, 5

Nature of bottom, Coarse Sand

Direction of ~~surface current~~ wind, N. E. Force 2

Force of surface current,

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

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. Lawrence U.S.N.

Name and position of observer,

J. W. Shook
Mate U.S.N.

1104

REMARKS.

Surf. 1,022 8 70

Bottom 1,022 8 70

Porionolus carolinus (juv)

Stenotomus argyrops (adult)

Prionotus triacanthus R

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1104

Date, Aug 18th 1882

Locality, Vineyard Sound

Bearings, East Chop Lt. Ho

WNW 1/2 W 4 miles

Time of day, 2 1/2 ; of tide, Slack (end of ebb)

State of sky, Hz

Temperature of air, 79

" surface of water, 70

" at depth of fathoms,

" of bottom, 69

Depth, in fathoms, 8 1/2

Nature of bottom, shells

Direction of ~~surface current~~ Wind, ENE 3

~~Force of surface current~~ Drift, NxW 3/4 W 1/2 mi

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. Lanier USN

Name and position of observer,

J. E. B. Hoch
Mate USN

110 S

REMARKS.

surf	1.0226	70
5 fm	1.0228	70
10	1.0228	70

Lophopsetta maculata 2 (1 large)

Stenotomus argyrops (about fm)

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1105

Date, Aug 18 1882

Locality, Vineyard Sound

Bearings, Cape Poge Lt. Ho S x W dist. 4 miles

Time of day, 3.00 ; of tide, beginning of ebb

State of sky, Hc

Temperature of air, 80

" surface of water, 72

" at depth of fathoms,

" of bottom, 71

Depth, in fathoms, 10

Nature of bottom, Coarse sand

Direction of ~~surface current~~ wind, NE 3

Force of ~~surface current~~ wind, NE x E 1/2 E 2 miles

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. Sanner USN

Name and position of observer, [illegible] Midn USN

1106

REMARKS.

1,0227 72
1,0228 72
Fautoxoladrua adsperum /
Steinbotomus argyrops (adult)

TEMPERATURE RECORD.

Instrument used, Bawl

Current number of observation, 1106

Date, Aug 18 82

Locality, Vineyard Sound

Bearings, Cape Poge Lt-Hse

S x W 1/2 W 3 1/2

Time of day, 3.35 ; of tide, beginning of ebb

State of sky, Vc

Temperature of air, 80

" surface of water, 72 1/2

" at depth of fathoms,

" of bottom, 72

Depth, in fathoms, 5

Nature of bottom, sand & shell

Direction of ~~surface current~~, wind NE Force 3

Force of ~~surface current~~, drift NE x N 1/4 mile

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. Jenness USN

Name and position of observer,

O. Goodrich
Midn USN

1107

REMARKS.

	Specific Gravity	
Surface	1.0244	67
5 fms	44	67
10 "	43	64

Trawl over 6.12 down 6.25
leaving in 6.46 up 6.54
220 fms out
Water Haul

Set trawl lines

TEMPERATURE RECORD.

Instrument used, Trawl (case of empty)

Current number of observation, 1107

Date, Aug 22 1882

Locality, Off Marthas Vineyard

Bearings, Lat 40°-02' N
Long 70°-35' W

Time of day, [illegible]; of tide,

State of sky, Vc

Temperature of air, 69½

" surface of water, 71

" at depth of 5 fathoms, 71½ at 10 fms 66

" of bottom, 48

Depth, in fathoms, 111=116

Nature of bottom, grey mud

Direction of ~~surface current~~ Wind, WSW Force 2

~~Force of surface current~~ Drift NW 1'

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, USF Fish Comm

Name and rank of commanding officer,
Lt. T. L. Tanner USN

Name and position of observer,
J. B. Bish
Mate USN

1108

REMARKS.

Specific Gravities

Surface	1.0243	67
5 fms	42	68
10 "	42	68

Trawl over 6.58 down 7.07

heaving in 7.37 ~~up~~ 7.50 30 fms out

Physis tenuis (18) Raia erinacia (1)

Paralichthys oblonga (6)

Glyptocephalus cynoglossus (5)

Myoxine glutinosa (about)

Citharichthys arctifrons (1)

Ophichthys (about)

Hyphalonedons chalybeius

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1108

Date, Aug 22 1882

Locality, Off Martha's Vineyard

Bearings, Lat. 40°-02' N
Long 70°-37'-30" W

Time of day, 6, 55 ; of tide,

State of sky, Vc

Temperature of air, 69 1/2

" surface of water, 71

" at depth of fathoms,

" of bottom, 48

Depth, in fathoms, 97=101

Nature of bottom, gray mud & fine sand

Direction of ~~surface current~~, Wind WSW Force 2

~~Force of surface current~~, Drift NW 3/4

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

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

Name and position of observer,
J. W. Shah
Mate USN

1109

REMARKS.

	Specific	Gravities	
Surface	1.0243		66
5 fms	43		66
10 "	44		68

Trawl over 8.00 down 8.10
heaving in 8.40 up 8.50 250 fms out
Scorpaena (3) Phycis chuss abot,
Phycis tenuis (about), Helypterophalus
gymnoglossus (fms) Paradichthys olongus
Raia fins & yolk of egg!

TEMPERATURE RECORD.

Instrument used, Lowe

Current number of observation, 1109

Date, Aug 22, 1882

Locality, Off Martha's Vineyard

Bearings, Lat 40°-03' N
Long 70°-38' W

Time of day, 7 55 ; of tide,

State of sky, Clear

Temperature of air, 70 1/2

" surface of water, 71

" at depth of fathoms,

" of bottom, 49

Depth, in fathoms, 85 = 89

Nature of bottom, Gray sand

Direction of ~~surface current~~, Wind North Force 2

~~Force of surface current~~, Drift NNW 1'

Direction of bottom current,

Force of bottom current,

Name of vessel, U S Fish Hawk

To what service attached, U S Fish Comm

Name and rank of commanding officer, Lieutenant L L Lanny U S N

Name and position of observer, J Rossbach U S Navy

REMARKS

1110

REMARKS.

Specific Gravities

Surface	1.0235	72	
5 fms	35	72	
10 "	37	71	
Trawl over 9.25	down	9.35	
heaving in 10.05	up	10.18	

Citharichthys 300 fms out

Myxine glutinosa (adult)

Scorpaena dactyloptera Raia eglanteria

Selyptocephalus cynoglossus (?)

Psycho Chusa (adult)

Lasalgetteya oblongus

TEMPERATURE RECORD.

Instrument used, Fowler

Current number of observation, 1110

Date, Aug 22 1882

Locality, Off Martha's Vineyard

Bearings, Lat 40°-02' N
Long 70°-35' W

Time of day, 9.16 ; of tide,

State of sky, Vc

Temperature of air, 75

" surface of water, 72

" at depth of fathoms,

" of bottom, 47

Depth, in fathoms, 96 = 100

Nature of bottom, Green mud & fine sand

Direction of ~~surface current~~ wind, North Force 2

~~Force of surface current~~ Drift, NxW½W 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, Lt. T.G. Tanner USN

Name and position of observer, [illegible] Midn USN

1111

REMARKS.

Specific Gravities

Surface	1.0239	71
5 fms	40	70
10 "	40	72

Trawl on 10.50 down 1057
Leaving m 11.30 up 11.40 305 fms out.
Pasaliobthys olongus (m)
Raia eglanteria (1) Phycis Chesteri
Glyptocephalus cynoglossus (fm)
Merluccius bilinearis (fm)
Macrurus carminatus
On Trawl line set for Lophilatilus
Phycis tenuis (20) Raia laevis (1)
Raia ocellata (2)

TEMPERATURE RECORD.

Instrument used, Bref-Sea Trawl

Current number of observation, 1111

Date, Aug 22 1882

Locality, Off Martha's Vineyard

Bearings, Lat. 40°-01'-33" N Obs
Long 70°-35 W

Time of day, 10.45 ; of tide,

State of sky, Vc

Temperature of air, 76

" surface of water, 72 NRZ #46402

" at depth of 5 fathoms, 71

" of bottom, 47

Depth, in fathoms, 119=124

Nature of bottom, fine sand

Direction of ~~surface current~~ wind, NE Force 2

~~Force of surface current~~ Drift NNE½E 1'

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, N.S. Fish Comm

Name and rank of commanding officer,
Lt. L. F. Tanner USN

Name and position of observer,
K Rossbish
Midn USN

1112

REMARKS.

Specific Gravity

Surface 1.0240 69

41 70

40 69

Trawl 12.55 down 1.05

heaving in 1.30 up 1.45

430 fms out,

Lophius piscatorius (1) Labrax marinus (1)

Labrax marinus (Stomach of Lophius)

Halichaeres dentiscosa (5) Serpulus (dead)

Coltunculus microfa 1 Mactrina

Raia radiata. Sinuoftychid (1)

Phycis Chesteri (1) Ophiothys (1)

Glyphocephalus cynoglossus (1)

Macrurus Milneoris (1)

TEMPERATURE RECORD.

Instrument used, Deep-Sea Trawl

Current number of observation, 1112

Date, Aug 22 1882

Locality, Off Martha's Vineyard

Bearings, Lat 39°-56' N
Long 70°-35' W

Time of day, 1243 ; of tide,

State of sky, Vc

Temperature of air, 72

" surface of water, 72

" at depth of 5 fathoms, 72 at 10 fms 65

" of bottom, 43

Depth, in fathoms, 235 = 245

Nature of bottom, Green mud & sand

Direction of ~~surface current~~ Wind, NE Force 1

Force of surface current, Drift NW x N 1'

~~Direction of bottom current~~, Temperature at 20 fms 44

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, USF Fish Comm

Name and rank of commanding officer, Lt. Z. L. Tanner USN

Name and position of observer, J B Bish Midn USN

1113

REMARKS.

Specific Gravities

Surface	1.0240	68
3 fms	40	70
10 "	41	70

Trawl over 1.54 down 2.03

heaving in 2.25 up 2.40

375 fms out

Sorpaena (1) Scopelus (abd) Physis chuss (abd)

Raia Macrurus Bairdii (abd) Scopelus n.s. (1)

Macrurus carminatus (abd)

Merluccius bilinearis Sebastes marinus

Halistasa sentiversa

Synaptobranchus pinnatus

TEMPERATURE RECORD.

Instrument used, Deep Sea Trawl

Current number of observation, 1113

Date, Aug 22 1882

Locality, Off Martha's Vineyard

Bearings, Lat 39°57' N
Long 70°-37' W

Time of day, 1.45 ; of tide,

State of sky, VC

Temperature of air, 75

" surface of water, 72

" at depth of 5 fathoms, 71½ 10 fms 65½

" of bottom, 43

Depth, in fathoms, 184=192

Nature of bottom, green sand

Direction of ~~surface current~~ wind, NE Force 2

Force of ~~surface current~~ Drift, North 1'

Direction of bottom current, Temperature at 20 fms. 49

Force of bottom current, " 30 " 46

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Comm

Name and rank of commanding officer,
H. L. Tanner USN

Name and position of observer,
J. S. Bright
Midn USN

1114

REMARKS.

Trawl out 2,48 down 2,55
heaving in 3,16 up 3,28
302 fms out
Mysium glutinosum (1) Perfulus (few)
Macrura carminatus about
" Baindii (few)
Libacus marinus (1)

TEMPERATURE RECORD.

Instrument used, Deep-Sea Trawl

Current number of observation, 1114

Date, Aug 22, 1882

Locality, Off Martha's Vineyard

Bearings, Lat 39°-58' N
Long 70°-38' W

Time of day, 2.40 ; of tide,

State of sky, Mc

Temperature of air, 74

" surface of water, 72

" at depth of 5 fathoms, 71½ 10 fms 65

" of bottom, 43

Depth, in fathoms, 164 = 171

Nature of bottom, Green sand

Direction of ~~surface current~~ wind, NE Force 2

Force of surface current, Drift NxW 1'

Direction of ~~bottom current~~ Temperature, at 50 fms 43°

Force of bottom current, " 50 " 49*

Name of vessel, Fish Hawk

To what service attached, U S Fish Comm

Name and rank of commanding officer,
Lt. F. F. Tanner USN

Name and position of observer,
J. W. Olsen
Ensign USN

o Bottom thermometer
+ Nat # 47998

1115

REMARKS.

Dredge over 3.35 down 3.44
heaving in 4.11 up 4.20
275 fms out
No fish

TEMPERATURE RECORD.

Instrument used, Rake Dredge

Current number of observation, 1115

Date, Aug 22, 1882

Locality, Off Martha's Vineyard

Bearings, Lat 39° 59' N
Long 70°-41' W

Time of day, 3.28 ; of tide,

State of sky, VC

Temperature of air, 75

" surface of water, 72½

" at depth of 5 fathoms, 72 at 10 fm 70

" of bottom, 45

Depth, in fathoms, 140 = 146

Nature of bottom, Green Mud + sand

Direction of ~~surface current~~ Wind, NE Force, 2

~~Force of surface current~~ Drift, W x N 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,

Lt. Z. L. Tanner USN.

Name and position of observer,

J. W. Welsh
Mate USN

1116

REMARKS.

Trawl over 4.26 down 4.33
heaving in 4.53 up 5.00
300 fms out
At 5.00 got sounding in 146 fms
Merluccius vulgaris (few)
Lophius piscatorius (1)
Phycis chuseni Raia eglanteria
Glyptocephalus cynoglossus (1)
Macrurus carinatus (few)
Scorpæna dactyloptera
Squalus marinus

TEMPERATURE RECORD.

Instrument used, Brown

Current number of observation, 1116

Date, Aug 22 1882

Locality, Off Martha's Vineyard

Bearings, Lat 39°-59' N
Long 70°-44' W

Time of day, 4.20 ; of tide,

State of sky, Cle

Temperature of air, 77

" surface of water, 72

" at depth of 5 fathoms, 72 10 fms 68

" of bottom, 46

Depth, in fathoms, 138 = 144

Nature of bottom, hard sand & green mud

Direction of ~~surface current~~ wind, SE Force 2

~~Force of surface current~~ Drift - NW x W 1'

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, USF Fish Comm

Name and rank of commanding officer,
Lt. Z. L. Tanner USN

Name and position of observer,
J. O. Welsh
Mid USN

1117

REMARKS.

Trawl over 5.37 down 5.41
heaving in 6.08 up 6.12
240 fms out

Paralichthys oblongus (few)
Glyptocephalus cynoglossus (few)
Muraenoides gunellus
Lebarbs marinus (few)
Physeis tenuis (few) P. chuss (few)

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1117

Date, Aug 22 1882

Locality, Off Martha's Vineyard

Bearings, Lat 40° 02' N
Long 70° 45 W

Time of day, 6 30 ; of tide,

State of sky, Na

Temperature of air, 78

" surface of water, 72

" at depth of 5 fathoms, 72 10 fms 62

" of bottom, 48

Depth, in fathoms, 85 = 89

Nature of bottom, fine sand

Direction of ~~surface current~~, Wind N Force 3

~~Force of surface current~~, Drift N x E 1'

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

Name and rank of commanding officer,
Lt. Z. L. Tanner USN

Name and position of observer,
J. B. Elliott
Wider USN

1118

REMARKS.

Trawl over 6.25 down 6.30
heaving in 6.35 up 6.40
240 fms out
Paralichthys olongus (fw)
Lebastes marinus (fw) Phycis tenuis (s)

TEMPERATURE RECORD.

Instrument used, Fowler

Current number of observation, 1118

Date, Aug 22 1892

Locality, Off Martha's Vineyard

Bearings, Lat 40°-03' N
Long 70°-45' W

Time of day, 6.20 ; of tide,

State of sky, VC

Temperature of air, 74

" surface of water, 72

" at depth of fathoms,

" of bottom, 49

Depth, in fathoms, 67 = 70

Nature of bottom, fine sand

Direction of ~~surface current~~, Wind N Force 2

~~Force of surface current~~, drift NNW 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, W. H. Lish
Mate USN

1119

REMARKS.

Trawl over 6.37 down 6.41
hauling in 7.12 up 7.22
215 fms out
At 5.22 put sounding in 56 fms
Large Neptunia decem costata
Archaster americanus
Ophiuroidea (3) Hippoglossoides platessoides
Large Neptunia decem costata
Archaster americanus

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1119

Date, Aug 26, 1882

Locality, Off Nantucket

Bearings, Lat 40°-08' N
Long 68°-45' W

Time of day, 6.32 ; of tide,

State of sky, Vc

Temperature of air, 68

" surface of water, 65

" at depth of 5 fathoms, 65

" of bottom, 48

Depth, in fathoms, 93=97

Nature of bottom, sand & broken shells

Direction of ~~surface current~~ wind, NNE Force 3

~~Force of surface current~~ Drift, NE1/2N 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,
Lt. L. L. Jenner USN

Name and position of observer,
[illegible] USN

1120

REMARKS.

Trawl over 7.33 closed 8.03
hauling in 8.30 up 8.45
Sebastes marinus (few) Zoarces anguillaris (2)
Macrurus Bairdii (few) Sarsaena (few)
" carinatus (few)
Raja radiata (few) Pleyeis Chesa (few)
" erinacea (few) " tenuis (few)
" jun. Merluccius bilinearis (few)
— deep-water basket-starfish
(Astrophyton Lamarckii) not k-
ept taken by us
Volium Bairdii (frag)
Neptunea decemcostata
Sipho Stimpsonii
Buccinum undatum
Sipho fuscus
Addisonia paradoxa
Doris coniplanata
Hyalinaeid artifex
Lemnal Diplotrevastor multiplex
Brisaspis lyrifera
Bolocera Tuediae
Porania spinulosa
Archaster Agassizii

TEMPERATURE RECORD.

Instrument used, Frame

Current number of observation, 1120

Date, Aug 26th 1882

Locality, Off Nantucket

Bearings, Lat 40° 05 N
Long 68° - 48' W

Time of day, 7 41 ; of tide,

State of sky, Fog

Temperature of air, 69

" surface of water, 65

" at depth of 5 fathoms, 65 at 10 56

" of bottom, 43 1/2

Depth, in fathoms, 186 = 194

Nature of bottom, fine sand & shells

Direction of ~~surface current~~, Wind NNE force 3

~~Force of surface current~~, Drift NW 1 1/2

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, N Fish Com

Name and rank of ~~commanding officer~~, Lt. C. F. Lauman USN

Name and position of ~~observer~~, Ensign Wadsworth USN

1121

REMARKS.

Trawl over 9.18 down 9.28
hauling in 9.48 up 10.05
550 fms out

Lebachs marinus (jun) unknown (amphipod)
Macrurus Bairdii Merluccius bilinearis
" carminatus
Cottunculus microps
Cyclopterus lumpus (amphipod)
Large lot Ophiacantha millespina
Lot Bolocera tuedia
" Hyalinoecia artifex
Dolium Bairdii frag
Pecten vitreus
Urticina callosa
Paramuricea borealis (rare coral)
Antedon dentatum
Porania grandis (very large)
Solaster Earlii
Lophaster furcifer (very rare
& not taken in this region
before)

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1121

Date, Aug 28th 1882

Locality, Off Nantucket

Bearings, Lat 40° 04' N
Long 68° 49' W

Time of day, 9.05 ; of tide,

State of sky, Vc

Temperature of air, 65

" surface of water, 65

" at depth of 5 fathoms, 64 10 fms 56

" of bottom, 41 1/2

Depth, in fathoms, 225 = 234

Nature of bottom, fine sand & fossil stem

Direction of ~~surface current~~ winds, NNE Force 4

Force of ~~surface current~~ Drift NNW 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, H. L. L. Farner USN

Name and position of observer, J. Goodlich Midn USN

1122

REMARKS.

Trawl over 10.38 down 10.50
heaving in 11.23 up 11.45
600 fms out

Lebastes marinus fms Halosaurus Phycis Nola (1)
Great lot Acanella Normani
with Astrochele Rymani on it
Pecten vitreus on Acanella

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1122

Date, Aug 26th 1882

Locality, Off Nantucket

Bearings, Lat 40°-02' N
Long 68°-50' W

Time of day, 10.28 ; of tide,

State of sky, Fog

Temperature of air, 70

" surface of water, 67

" at depth of 5 fathoms, 66 at 10 fms 60

" of bottom, 40½

Depth, in fathoms, 337 = 351'.

Nature of bottom, Sand & stones

Direction of ~~surface current~~, Wind NNE Force 4

~~Force of surface current~~, Drift NW 1'

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, USF Fish Comm

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

Name and position of observer,
[illegible]
Mate USN

REMARKS