U. S. F. C.
Records.

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1122 to 1155

U. S. Fish Comm.
Dredging Records.
Nos 1122-1149.
1882.

11 22

Travel over 10 38 down 11.50
heaving in 11.23 up 11.45
60 fms. out.

Great lot of Acanella
Normani, with Astro-
Chele Lymani on it.
and Pecten vitreus

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, 11:28 ; of tide,

State of sky, bc

Temperature of air, 70

" surface of water, 67

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

" of bottom, 40 1/2

Depth, in fathoms, 997 = 951

Nature of bottom, sand & stones

Direction of ~~surface current,~~ Wind N.N.E. force 4

~~Force of surface current,~~ Dupe N.N.E.

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 Z. L. Tanner U.S.N.

Name and position of observer, J. B. Bleish
Midshipman, U.S.N.

REMARKS.

1128

Trawl over 12.31 down 12.37
leaving in 3.22 up 3.33
At 2.35 got cast of lod in 127
830 fms out

Small but
Very interesting haul of
rare things.

Phormosoma Sigsbeyi
Eledone verrucosa
30 one pounds 12st Cattey by Fish Comm
New Pennatulid
Colossendeis Colossea
Second flexible sea urchins
Phromosoma Sigsbeyi
New starfish
Pleurotomella Agassizii
Margarita regalis
Pecten vitreus.

26
33
59

TEMPERATURE RECORD.

Instrument used, Deep Sea Trawl

Current number of observation, 1128

Date, Aug. 26th 1882

Locality, Off Nantucket

Bearings, Lat 39°-59'-45" N
Long. 68°-54' W

Time of day, 12.00 ; of tide.

State of sky, C.E

Temperature of air, 70

" surface of water, 69

" at depth of fathoms,

" of bottom, 39

Depth, in fathoms, 761 = 787

Nature of bottom, Sand & Green mud

Direction of ~~surface current~~ wind, N.N.E Force 4

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

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,

J. W. Blista
Mid'n U.S.N.

REMARKS

1124

REMARKS.

Trawl over 429 down 4.44
Leaving in 517 up 5.44?
831 fms out

Large limestone nodules.
Large haul, and valuable

Acanella Normani, lar. lot.
Acanthogorgia armata
Bolocera Tuediae.
Pandalus propinquus.
Diploleptaster multipes.
Leryon quinquedens.
Octopus Bairdii
Rossia megaptera. 2 of known 1st by us.
New Chiton
Pennatula borealis.
Stylatula arlifera lot.
Astrochele Lymani on acanella
Calliostoma occidentale
Aporrhais occidentalis
Margarita regalis
Sipho pubescens
Chorites elegans
Neo Chiton (Mopalia?)
Simopsis minuta
Pennatula borealis (2)

TEMPERATURE RECORD.

Instrument used, Deep Sea Trawl

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, Oc

Temperature of air, 65

" surface of water, 65

" at depth of fathoms,

" of bottom, 99

Depth, in fathoms, 690 = 640

Nature of bottom, fine sand & green mud

Direction of ~~surface current~~ Wind, N.N.E. Force 4

~~Force of surface current~~ Drift, N.W. x N 1'

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, J. M. Blist
Midn. U.S.N.

REMARKS

1123

REMARKS.

Trawl over 6.03 down 8.10
hauling in 6.32 up 6.50
550 fms out

Hyalinoecia artifex
Acanella Normani.
Bunodes Tuediae.
Lagarteia abyssicola
Pandalus propinquus.
Lithodes indica
Geryon quinquedens.
Pleurobrachia vitreus
Terebratulina septentrionalis
Scaphander punctostriatus
Schizaster fragilis.

TEMPERATURE RECORD

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, 5.45 ; of tide,

State of sky, S.E

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 N.N.E. Force 4

~~Force of surface current~~, Drift N.W. x W 1'

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.

1126.

REMARKS.

Cancer borealis.
" irroratus.
Platyonichus occellatus
Homarus americanus
Lucinia tenera
Mytilus edulis.
Echinarachnius parma
Asterias forbesii
A — vulgaris

TEMPERATURE RECORD.

Instrument used, Frame

Current number of observation. 1196

Date, Aug. 28 1882

Locality, Vineyard Sound

Bearings, Gay Head Lt. House N.S.W 2 3/4

Time of day, 1.46 ; of tide, half ebb (neap)

State of sky, b.c

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~~, Wind S.S.E. Force 4

~~Force of surface current.~~ Drift S.E x E 3/4

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,

1127

REMARKS.

Same as 1126.

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1127

Date, Aug. 28 1882

Locality, Vineyard Sound

Bearings. Gay Head Light House N x S 3

Time of day, 2.30 ; of tide. ebb (neap)

State of sky, b c

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 S.S.E Force 4

~~Force of surface current.~~ Drift E.S.E 1/2

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,

1128

REMARKS.

same as 1126.

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, 1128

Date, Aug 28 1882

Locality, Vineyard Sound

Bearings, Gay Head Lt. Pl house N 3/4 E 2 3/4

Time of day, 3.10 ; of tide, ebb.

State of sky, F.C

Temperature of air, 79

" surface of water, 66

" 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, S x E 1/4

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,

1129.

REMARKS.

Echinarachnius parma
Astería
Nerlgula arcuata
Astarte castanea
Cancer irroratus
Eupagurus pollicaris
Tritia trivitata
Acmæa testudinalis
Chlorophora trilineata
Nucula solidissima
Syomina hyalina

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation. 1129

Date, 3 Sept 2nd 1882

Locality, Off No Mans Land

Bearings, Fishing village South 1/2

Time of day, 2.03 ; of tide. L.C

State of sky,

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 E.N.E Force 4

~~Force of surface current~~. Drift N.E by E 1/2

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,

1130.

REMARKS.

Same offence as 1129

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation. 1138

Date, Sept 2nd 1882

Locality, Off in Mark Sound

Bearings. Fishing village

S 1/2 E 1/2

Time of day, 2.13 ; 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 S.E force 4

~~Force of surface current~~ Drift N.N.X.E 1/8

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,

1131

REMARKS.

Same as 1129

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation. 1131

Date, Sept 2nd 1882

Locality. Off N. Mine Land

Bearings, Fishing Village

S.E by 1/2

Time of day, 2.29 ; of tide.

State of sky, Lc

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~~. wind E.N.E. force 4

Force of ~~surface current~~. Drift E x N 1/4

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,

1132

REMARKS.

Same as 1129

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation. 1132

Date, Sept 2nd 1882

Locality, Off No Mans Land

Bearings, Fishing village

S E x E 1/4 E

Time of day, 2.45 ; of tide.

State of sky, F.C.

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 E N E. Force 4

~~Force of surface current~~. Drift N N E 1/2

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,

1133

REMARKS.

Panel on 1129

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, 1139

Date, Sept 2nd 1882

Locality, Off St Marys Land

Bearings, Fishing village

S.E. 3/4

Time of day, 9.16 ; of tide,

State of sky, b.c

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 E.N.E. Force 4

Force of ~~surface current~~. Drift E X S 3/4

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.

1194

Specific Gravity

Surface 1.0283 66

5 fms. 1.0293 66

TEMPERATURE RECORD.

Instrument used, Travel

Current number of observation, 1184

Date, Sept. 6th 1882

Locality, Menemsha Bight Vineyard Sd

Bearings, Gay Head Lt. House N S W 1/4 W dist. 2 3/4

Time of day, 6.26 : of tide. Last (or next (M)) tide

State of sky, Fe

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~~, Wind N E Force 4

~~Force of surface current~~, Drift N N W 1/2

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, Trawl

Current number of observation, 1193

Date, Sept 6th 1882

Locality, Vineyard Sound

Bearings, Gay Head Lt. House N 1/2 S 9'

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 current,~~ wind NE ; force 4

~~Force of surface current,~~ Drift NE 1/4

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, Dredge

Current number of observation, 1136

Date, Sept 6th 1882

Locality, Penobscot Bay

Bearings, Gay Head Lt. House N 5 W 7/8 M 3'

Time of day, 3.56 ; of tide, East tide

State of sky, Fl

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 current~~ Wind, NE. force 3

Force of ~~surface current~~ Drift, NE 1/4

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,

1197

REMARKS.

Specific Gravities

Surface 1.0242		87
5 fms.	42	17
11 "	42	87

Travel over 6.12 down 6.25
leaving in 6.45 up 7.55
875 fms. out
At 7.00 anchored in 141 fms.

TEMPERATURE RECORD.

Instrument used, Trank

Current number of observation, 1137

Date, Sept. 8 1882

Locality, off Block Island

Bearings, Lat. 39° 46' N
Long. 71° 52' W

Time of day, 6.00 AM; of tide,

State of sky, Clear

Temperature of air, 68

" surface of water, 76

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

" of bottom, 46

Depth, in fathoms, 173

Nature of bottom, fine sand

Direction of ~~surface current~~ Wind Calm

~~Force of surface current~~, Light NNW 1/2

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,

1138

REMARKS.

Specific Gravities

Surface 1.0241		70
5 fms	41	70
10 "	41	71

Travel over 7.38 down 7.39
leaving in 8.00 up 8.15
8 30 fms out

TEMPERATURE RECORD.

Instrument used, Deep Sea Trave

Current number of observation, 1138

Date, Sept. 8th 1882

Locality, off Block Island

Bearings, Lat 39°-39' N
Long 71°-34' W

Time of day, 7.24 ; of tide.

State of sky, Cl

Temperature of air, 72

" surface of water, 71

" at depth of 5 fathoms, 70

" of bottom, 46

Depth, in fathoms, 188

Nature of bottom, soft fine sand

Direction of ~~surface current~~. Wind Calm

~~Force of surface current~~. Drift N W 1'

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,

1189

REMARKS.

	Specific	Gravities
Surface	1.0236	75
5 fms	38	71
10 fms	39	72

Travel over 9.00 down 9.15
hauling in 9.40 up 10.05
5'5'6 fms. out

TEMPERATURE RECORD.

Instrument used, Deep Sea Trawl

Current number of observation. 1184

Date, Sept 8th 1882

Locality, Off Block Island

Bearings, Lat 41-37' N
Long 71 32 W

Time of day, 8 p 48 ; of tide.

State of sky, Vc

Temperature of air, 74

" surface of water, 72

" at depth of 5 fathoms, DO 16 fms 64

" of bottom, 44

Depth, in fathoms, 291

Nature of bottom, Mud

Direction of ~~surface current~~, Wind N.N.E. force 1

~~Force of surface current~~, Drift N.N.E 1 1/2

~~Direction of bottom current~~, Temperature at 95 fms 47 Bot 49644

" " " 95 " 49 1/2 47995

~~Force of bottom current~~, " 45 " 49 47902

" " 25 " 47 47993

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1148

REMARKS.

Specific Gravities

Surface	1.0240	79
5 fms	39	79
11 "	39	73

Trawl over 11.43 down 11.34
hauling on 11.32 up 11.11
675 fms out

Lycon quildens. sev. large.
Labrica principes.
Pandalus propinquus.
Archaster Agassizii.

TEMPERATURE RECORD.

Instrument used. Deep Sea Trawl

Current number of observation. 1140

Date, Sept 8th 1882

Locality. Off Block Island

Bearings. Lat 39° 34' N

Long 71° 36' W

Time of day, 10.35 ; of tide.

State of sky, bc

Temperature of air, 78

" surface of water, 79

" at depth of 25 fathoms, 72 10 fms 48

" of bottom, 46

Depth, in fathoms, 374

Nature of bottom, fine sand & soft mud & gravel with many foraminifera

Direction of ~~surface current~~ Wind

Force of ~~surface current~~. Wind Force 2

~~Force of surface current~~. Drift N 1

Temperature at 25 fms 45 1/2

~~Direction of bottom current~~, " 25 fms 49

~~Force of bottom current~~, " 45 " 49

" " 25 " 58

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1141

REMARKS.

Spec. 5 vis.

Surface 1.2 98 74
5 fms 98 74
11 fms 99 74
Trawl out 12.42 down 12.52
leaving on 1.25 up 1.43
700 fms out

In trawl wings.
Pteropods, Clione papilionacea, Cavolina longirostris, alive.

Trawl net empty.

TEMPERATURE RECORD.

Instrument used, Deep Sea Trave

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 Mean 70

" of bottom, 40

Depth, in fathoms, 389

Nature of bottom, Sand & mud

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

~~Force of surface current~~, Drift N X N 1/2 N 1'

Temperature at 95 - 51

Direction of bottom current, " 40 - 51

Force of bottom current, " 20 - 59

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1142

REMARKS.

Spec. Grav

Surface	1.0238	74
5 fms	99	74
10 fms	40	74

Travel over 2.05 down 2.20
Leaving in 2.40 up 3.17
60 fms out

Acanella normani.

TEMPERATURE RECORD.

Instrument used, Deep Sea Trawe

Current number of observation, 1142

Date, Sept 8th 1882

Locality, Off Florida Dot

Bearings, Lat 39° - 32' N
Long. 72° 57' W

Time of day, 1-30 ; of tide.

State of sky, Clr

Temperature of air, 88

" surface of water, 74

" at depth of 5 fathoms, 74 14 fms 72

" of bottom, 41

Depth, in fathoms, 322

Nature of bottom, sand with and 1 fol Ha

Direction of ~~surface current~~ wind NW Force 1

Force of ~~surface current~~, Drift W 15 " 12

Temperature 65 fms 72

~~Direction of bottom current~~, " 93 " 56

" " 46 " 45

Force of bottom current, " 20 " 71

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1143

REMARKS.

Sec. Grav.

Surface	1.0238	74
5 fms	38	74
10 fms	39	75

Tide ebb over 3.52 down 4.05
Leaving in 4.48 up 5.10
746 fms. out
At 5.15 sounded in 412 fms

TEMPERATURE RECORD.

Instrument used, Deep Sea Frame

Current number of observation. 1143

Date, Sept 8th 1882

Locality. off Block Isd

Bearings, Lat 39°-29' N
Long 72°-11' W

Time of day, 3.30 ; of tide.

State of sky, bc

Temperature of air, 80

" surface of water, 74

" at depth of 5 fathoms. 73 [illegible] 79

" of bottom, 40

Depth, in fathoms, 452

Nature of bottom, Mud

Direction of ~~surface current~~ wind west fresh!

Force of ~~surface current~~ Drift NW 2'

Temperature at 95 fm [illegible]

Direction of bottom current, " 95 " 50 1/2

" " 40 " 42

Force of bottom current, " 30 " 35

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1144

REMARKS.

	Spec. Grav.	
Surface	1.0248	72
5 fms	1.0248	73
10 "	41	72

Trawl over 6.16 down 6.31
hauling in 6.50 up 7.40
750 fms out
Boat Trawl net.

TEMPERATURE RECORD.

Instrument used, Deep Sea Trawl

Current number of observation, 1144

Date, Sept 6th 1882

Locality, Off Block Island

Bearings, Lat 39° - 31' N
Long 72° - 16' W

Time of day, 6 00 PM of tide.

State of sky, Clear

Temperature of air, 75

" surface of water, 74

" at depth of 5 fathoms, 79 16 from 72

" of bottom, 41

Depth, in fathoms, 256

Nature of bottom, Soft Mud

Direction of surface current, Drift N 5 W force 1

Force of surface current,

Direction of bottom current, Temperature at 25 fms 45
" 50 fms 50
" 51 " 50
" 96 " 50

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, Cod trawls.

Current number of observation. 1145

Date, Sept. 21. 1882

Locality. Off Martha's Vineyard

Bearings, Lat. 40° 03'
Long. 70° 28.

Time of day, ; of tide.

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms, 135-160

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. Capt. J. W Collins.

Name and position of observer,

Set Cod trawls and lobster pots.

(over)

REMARKS.

Nos. 1145 - 1149.

The Sch. Josie Rescoe of New York. Capt. F. M. Redmond, accompanied by Capt. J. W. Collins U.S. F.C. spent 2 days on the ground where Lophotatetus Chamelonticeps should occur. They set cod trawls, and lobster pots covered with netting, but found none of that species of fish. Nothing but the hundred entered the pots, and this they did in great abundance. On the trawls were caught hake, dogfish, skates, goose fish, and red fish (Sp.?) and a few bumbletrates sent to New Haven.

TEMPERATURE RECORD.

Instrument used, Cod trawls.

Current number of observation, 1146.

Date, Sept. 21st 1882

Locality, Off Martha'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°.01' 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 transits.

Current number of observation. 1148.

Date, Sept. 23, 1882.

Locality. Off Martha'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. W. Collins.

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, Codbrauds.

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. Josie Reeves.

To what service attached, G.

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

Name and position of observer,

1150,

REMARKS.

Everything dried very few copepods in bottom swings. one or two arcelle specimens only.

Surface towing from the entire bay. Anomalocera Patersoni & ctenomet all bay. but scarcely any other species. There was very little life at surface. 2 large salpoe. few arcelle. very many jelly fish etc.

TEMPERATURE RECORD.

Instrument used, ~~H50~~ Travel

Current number of observation. 1150.

Date. Oct 4. 1882

Locality. Off Martha's Vineyard

Bearings. Lat. 39° 58′ N.
Long. 70° 37′ W.

Time of day, 6.35 A.M. ; of tide,

State of sky, b. c.

Temperature of air, 65.

" surface of water, 62

" at depth of 5 fathoms, 62.

" of bottom, 47.

Depth, in fathoms, 140.

Nature of bottom, Sand

Direction of surface current,

~~Force of surface current,~~ drift. E. 1/2 mi.

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached,

Name and rank of commanding officer.

Name and position of observer,

1157.

REMARKS.

About everything and
bantering. assumes best

TEMPERATURE RECORD.

Instrument used. ~~[illegible]~~ Trawl.

Current number of observation. 1151.

Date. Oct. 4. 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, b. c.

Temperature of air, 66.

" surface of water, 62

" at depth of 5 fathoms, 62.

" of bottom, 48.

Depth, in fathoms, 125.

Nature of bottom, Sand

Direction of surface current,

~~Force of surface current~~ Drift. E. 2 m.

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk.

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1152

REMARKS.

About everything [illegible]
but [illegible] [illegible]

Alexander George
Specs sent to Washington

TEMPERATURE RECORD.

Instrument used, ~~1152~~ Trawl

Current number of observation. 1152

Date. Oct. 4, 1882

Locality. Off Martha's Vineyard

Bearings. Lat. 39° 58′ N.
Long. 70° 35′ W.

Time of day. 8.42 A.M. Time of tide.

State of sky, L. C.

Temperature of air, 68.

" surface of water, 62

" at depth of 5 fathoms, 62

" of bottom, 48.

Depth, in fathoms, 115.

Nature of bottom, Sand

Direction of surface current.

~~Force of surface current.~~ Direct. E. 1½ knots

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1153.

REMARKS.

Large haul, but not a very great variety of species.
Bolocera Tuediae, very abdt.
Urticina Callosa "
" Rodosa "
Hyalinoecia "
Everything else named is examples of bottom come up apparently on very soft mud

Trawl wing somewhat lost

TEMPERATURE RECORD.

Instrument used, ~~1452~~ Tanner

Current number of observation, 1153.

Date, Oct. 4, 1882

Locality, Off Martha's Vineyard

Bearings. Lat. 39°54' N.
Long. 70°37' W.

Time of day, 10, 45; of tide,

State of sky, b. c.

Temperature of air, 70.

" surface of water, 62.5

" at depth of 5 fathoms, 62.

" of bottom, 44.

Depth, in fathoms, 225.

Nature of bottom. Sand green mud

Direction of surface current, N 1/2 W. 1 1/2 mi

Force of surface current. Fresh

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,

1154.

REMARKS.

Similar to last.
Gentlemen's about 10 bushels
Urtica ~~[illegible]~~ abt
Many small strips
Circle a rock hard
Got not so many
Species of Scandinavian
[illegible] East
Sagittaria also [illegible]
Ans. Potamogeton or Callitriche?

Trout [illegible] Stream
Lake

TEMPERATURE RECORD.

Instrument used, ~~1154 — 1156.~~ Trawl

Current number of observation, 1154.

Date, Oct. 4, 1882

Locality, Off Martha's Vineyard

Bearings, Lat. 39° 55' 31" N. (obs)
Long. 70° 39' 00. W.

Time of day, 12.10 P.M. ; of tide,

State of sky, b. c.

Temperature of air, 62.

" surface of water, 62 1/2

" at depth of fathoms,

" of bottom, not taken

Depth, in fathoms, 193.

Nature of bottom, green mud

Direction of surface current,

Force of surface current, N. by W. 1 1/2 m.

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,

1155.

REMARKS.

ooze

Soft mud, (green?)
about 30 Archaster
Agassizii of good
size, Pennfish, one
from brook wings worn?
Balance of the trawl
was mud, with few
muddy worm tubes,
and scarcely anything
else. Very little in
brooks wings.

Trawl wings seemed
lost.

18 A. Agassizii sent to Wash

TEMPERATURE RECORD.

Instrument used, Deeper & Trawl

Current number of observation, 1155

Date, Oct. 4. 1852

Locality, Off Martha's Vineyard

Bearings, Lat. 39° 52' N.
Long. 70° 30' W.

Time of day, 4.06 P.M. ; of tide.

State of sky, b. c.

Temperature of air, 64.

" surface of water, 63.

" at depth of 5 fathoms, 62

" of bottom, 40.

Depth, in fathoms, 535 = 554.

Nature of bottom, ~~sand~~ soft green mud

Direction of surface current.

Force of surface current. ~~Not set~~ N. N. W. 1/2 m

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.

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.