ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 917 to 960

984
916
=68

917.

Pecten tenuicostatus many young
Egg cases of rumasia heros.
Pleurobranchia Tarda. many

Fish

Raia laevis ♂	1
Phycis chuss	5
" tenuis	2
Paralichthys oblongus	2
Cottus 18-Spinosus	1
Hippoglossoides platessoides (1 3/8 in)	1

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 917

Date, July 16.

Locality, Off Marthas Vineyard.

Bearings, Lat. 40° 22' N

Long. 70° 42' W

Time of day, 4.10 pm; of tide,

State of sky, clear

Temperature of air, 66

" surface of water, 63 Thermometer 46402

" at depth of 10 fathoms, 49

" of bottom, 42 46403

Depth, in fathoms, ~~43~~ 44

Nature of bottom, gr. mud

~~Direction of surface current~~, Direction of wind S.E. Force 1

~~Force of surface current~~, drift N.E. 3/4 m

~~Direction of bottom current~~, Intermediate Temp. 20 of 45°

~~Force of bottom current~~, Intermediate Temp.

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

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

Name and position of observer,

A. P. Chapin

Steward

REMARKS.

Fish

Hippoglossoides platessoides	s-
Melanogrammus aeglefinus	1
Phycis chuss	18
" tenuis	2
Enchelyopus cimbrius	6
Zoarces anguillaris	1
Liparis (in Peeten)	1

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 918

Date, July 16. 1881

Locality, Off Martha's Vineyard

Bearings, Lat. 40° 20' 24" N.
Long. 70°41' 30" W

Time of day, 5.37 pm ; of tide,

State of sky, clear

Temperature of air, 67

" surface of water, 63

" at depth of 10 fathoms, 49

" of bottom, 42

Depth, in fathoms, ~~45~~ 46

Nature of bottom, yel. mud.

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

~~Force of surface current~~ Drift, NNE 1 m

~~Direction of bottom current~~ Intermediate Temperature, 2 of 45°

" " "

~~Force of bottom current~~,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

Name and rank of commanding officer, J.L. Tenner
Lieut. U.S. Navy.

Name and position of observer,

A.P. Chapin.
Foreman.

919

REMARKS.

Fish.

Paralichthys oblongus 10
Lophius piscatorius 1
Citharichthys arctifrons
Phycis chus many
" tenuis 1
Conger oceanica 1 very savage

A small mass of Lophius spawn seen floating alongside.

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 919.

Date, July 16

Locality, Off Martha's Vineyard

Bearings, Lat. 40° 16' 18" N.
Long. 70° 41' 18" W

Time of day, 7 A.M. ; of tide,

State of sky, clear

Temperature of air, 70

" surface of water, 66

" at depth of 15 fathoms, 48

" of bottom, 42 1/2

Depth, in fathoms, ~~54 1/2~~ 53

Nature of bottom, gravel

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

~~Force of surface current~~, Drift NE 1m

~~Direction of bottom current~~, Intermediate Temperature

" " "

~~Force of bottom current~~,

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

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

Name and position of observer,
A. P. Chapin
Steward.

920.

REMARKS.

Cithariichthys arctifrons, Jord.

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 920.

Date, July 16,

Locality, Off Martha's Vineyard

Bearings, Lat. 40° 13' N.
Long. 70° 41' 5-4" W

Time of day, 8.20 am ; of tide,

State of sky, clear

Temperature of air, 72

" surface of water, 66

" at depth of 10 fathoms, 45

" of bottom, 49?

Depth, in fathoms, ~~64~~ 63

Nature of bottom, gn mud

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

~~Force of surface current~~, Drift W by S 1 m

Intermediate Temperature

~~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, J.L. Tanner
Lieut. U.S. Navy

Name and position of observer,
H.P. Chapin
Steward.

921.

REMARKS.

Fish

Citharichthys arctifrons Jud.
Raia – large egg
Ammopleurops

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 921

Date, July 16.

Locality, Off Martha's Vineyard.

Bearings, Lat. 40° 07' 48" N

Long. 70° 43' 3-4" W

Time of day, 9.40 am ; of tide,

State of sky, clear

Temperature of air, 75-

" surface of water, 70

" at depth of 10 fathoms, 66

" of bottom, 5-2

Depth, in fathoms, 65- 67

Nature of bottom, gn. mud.

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

~~Force of surface current~~, Drift W 1m

Intermediate Temperature

~~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, J.L. Tanner.

Lieut. U.S. Navy.

Name and position of observer,

A.P. Chapin.

Yeoman.

922.

REMARKS.

Fish

Peristedium miniatum 5-

citharichthys arctifrons

Raia - small egg. 4

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 922.

Date, July 16,

Locality, Off Martha's Vineyard

Bearings, Lat. 40° 03' 48" N.

Long. 70° 45' 5-4" W

Time of day, 10.57 a.m. ; of tide,

State of sky, clear

Temperature of air, 76

" surface of water, 72

" at depth of 10 fathoms, 5-9

" of bottom, 5-2

Depth, in fathoms, 69 71

Nature of bottom, gn. mud and sand

Direction of ~~surface current~~, Wind SW Force. 2

~~Force of surface current~~, Drift NbyW 1 m

Intermediate Temperature, 20 f 5-8½°

~~Direction of bottom current~~,

~~Force of bottom current~~, 30 f 5-2.

Name of vessel, Fish Hawk.

To what service attached, U.S. Fish Commission

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

Lieut. U.S. Navy.

Name and position of observer,

A. P. Chapin.

Journal.

REMARKS.

Fish.

Peralichthys oblongus - common
Citharichthys arctifrons few
Monolene sessilicauda 1
Physis Chuss common
" tenuis few
Raia - large Egg 1
Raia small " few

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 923.

Date, July 16.

Locality, off Martha's Vineyard.

Bearings, Lat. 40° 01' 24" N

Long. 70° 46' W

Time of day, 12.27 p m ; of tide,

State of sky, clear

Temperature of air, 74 1/2

" surface of water, 72

" at depth of 10 fathoms, 53

" of bottom, 52

Depth, in fathoms, 96 98

Nature of bottom, Sand ~~gravel and mud~~

Direction of ~~surface current~~, Wind. SW Force. 2

~~Force of surface current~~, Drift WNW 1 1/2 m

~~Direction of bottom current~~, Intermediate Temperature. 2 of 54°

" " ~~Force of bottom current~~, 5 of 53°

Name of vessel, Fish Hawk.

To what service attached, U.S. Fish Commission

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

Name and position of observer, A.P. Chapin Fisherman.

924.

REMARKS.

Fish.

Halieutraea senticosa 1
Macrurus Bairdii 1
Glyptocephalus cynoglossus 1
Phycis chesteri moderate
Merluccius Jaw
Raia radiata 1
" eglanteria Jaw
Myxine glutinosa 1

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 924.

Date, July 16.

Locality, Off Martha's Vineyard

Bearings, Lat. 39° 57' 30" N.

Long. 70° 46' W

Time of day, 1.30 pm ; of tide,

State of sky, clear

Temperature of air, 74½

" surface of water, 71

" at depth of 5- fathoms, 70°, 10 of 61°

" of bottom, 44½

Depth, in fathoms, ~~46~~ 164

Nature of bottom, sand

Direction of ~~surface current~~ Wind, SW Force. 2

~~Force of surface current~~ drift, NW. 2 m

~~Direction of bottom current~~ Intermediate Temperature 20 of 5-0°

~~Force of bottom current~~ " 5-0 of 5-4°

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

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

Lieut. U.S. Navy.

Name and position of observer,

A.P. Chapin.

Jewham.

REMARKS.

Fish

Halieutaea Senticosa - moderate
Glyptocephalus Cynoglossus - few
Macrurus Bardii 8
" Carinatus 2
Phycis Chesteri many
Merluccius merylangus 1
Lycodes Verrillii few
Cottunculus microps 2
Scopelus 1
Careproctus or Liparis 1
Synaphobranchus pinnatus few

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 925:

Date, July 16,

Locality, Off Martha's Vineyard.

Bearings, Lat. 39° 33- N.

Long. 70° 47 W

Time of day, 3,33 pm ; of tide,

State of sky, Hazy

Temperature of air, 74

" surface of water, 71

" at depth of 5- fathoms, 70°, 10 / 5·8°

" of bottom, 42

Depth, in fathoms, ~~224~~ 229

Nature of bottom, Sand and mud

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

~~Force of surface current~~ Drift, NW by W 1½

~~Direction of bottom current~~ Intermediate Temperature 20 / 48°

" " ~~Force of bottom current~~, 5-0 / 5-3°

Name of vessel, Fish Hawk.

To what service attached, U.S. Fish Commission.

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

Name and position of observer,
A.P. Chapin.
Steward.

926.

REMARKS.

No fish

TEMPERATURE RECORD.

Instrument used, Trawl.

Current number of observation, 926.

Date, July 16

Locality, Off Martha's Vineyard

Bearings, Lat. 39° 36' N
Long. 70° 26' W

Time of day, 5h 24m p.m.; of tide,

State of sky, cloudy

Temperature of air, 74

" surface of water, 71

" at depth of 16 fathoms, 68°

" of bottom, 44

Depth, in fathoms, ~~195~~ 197

Nature of bottom, mud and sand

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

~~Force of surface current~~ Drift, N W ½ N 2½ m

Intermediate Temperature
~~Direction of bottom current~~, 20) 69°.

" ~~Force of bottom current~~ " 48) 53°.

Name of vessel, Fish Hawk.

To what service attached, U.S. Fish Commission

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

Name and position of observer,

A. P. Chapin,
Fireman.

927.

REMARKS.

Limanda ferruginea Jan. fem
Paralichthys dentatus very large ♀ 1
" ovaries small; Lophopsetta maculata in its stomach.

Lophopsetta maculata	20
Pseudopleuronectes Americanus	23
Paralichthys oblongus	9
Merluccius bilinearis	3
Prionotus carolinus	2
Cottus 18-spinosus Jan	1
Raia erinacea 17 ♂ 10 ♀	

Adult and young ♀ together.

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 927.

Date, July 20.

Locality, Menemsha Bight

Bearings, Gay Head Lt. W by S 3/4 S dist. 2 1/2 m

Tarpaulin Cove Lt. NNE. dist. 6 m

Time of day, 10 hr 47 m; of tide, Ebb

State of sky, cloudy

Temperature of air, 68

" surface of water, 62

" at depth of 5- fathoms, 61

" of bottom, 5-9

Depth, in fathoms, 11

Nature of bottom, sand.

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

~~Force of surface current~~, Drift WNW 1/2 m

~~Direction of bottom current~~, Intermediate Temperature

" ~~Force of bottom current~~, "

Name of vessel, Fish Hawk.

To what service attached, U.S. Fish Commission

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

Name and position of observer, A. P. Chapin. Assistant

928.

REMARKS.

Fair.

Pleuronectes americanus (Small)	23
Limanda ferruginea Jun.	1
Paralichthys oblongus	3
Lophopsetta maculata (Small)	25
Physis chuss Jun.	1
Hemitripterus americanus Jun.	4
Raia Eriacea 19 ♂ 27 ♀	

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 928.

Date, July 20.

Locality, Memusha Bight

Bearings, Gay Head Lyt. ~~[illegible]~~ 3/4 S dist 2 1/8 m

Turpaulin Cove Lyt. N N E 1/8 E dist 6 1/2 m

Time of day, 11.30 Am ; of tide, ~~Est~~ Low water

State of sky, Cloudy

Temperature of air, 69

" surface of water, 62 1/2

" at depth of 5 fathoms, 69

" of bottom, 6-9

Depth, in fathoms, 10

Nature of bottom, Sandy

Direction of ~~surface current~~ Wind, SSW Force. 3

~~Force of surface current~~ Drift, W by N ~~[illegible]~~ 1/2 m

~~Direction of bottom current~~ Intermediate Temperature

~~Force of bottom current~~ " "

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

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

Name and position of observer,
A. P. Chapin.
Yeoman.

929.

REMARKS.

No fish.

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, 929.

Date, July 20

Locality, Vineyard Sound off Bucks Hole

Bearings, Gay Head S by W 4 1/4 m

Wohska Lgt. N.E. by E 3/4 E 10 m

Time of day, 12, PM 35 ; of tide, Low water

State of sky, cloudy

Temperature of air, 66

" surface of water, 63

" at depth of fathoms,

" of bottom, 62

Depth, in fathoms, 10

Nature of bottom, Sand

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

~~Force of surface current~~, Drift SE by S 3/4 m

Intermediate Temperature

~~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, T.L. Tanner. Lieut. U.S. Navy.

Name and position of observer, A.P. Chapin Foreman.

930.

REMARKS.

Fish

Lophopsetta maculata 3.
Labrid - very young 1

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, 930.

Date, July 20

Locality, Vineyard Sound off Buck's Hole

Bearings, Gay Head S ½ W 4 3/4 m

Vineyard Sound Lt. Ship W 3/4 S 7½ m

Time of day, 1.10 Pm ; of tide, Low water

State of sky, cloudy

Temperature of air, 63°

" surface of water, 63

" at depth of 5 fathoms, 63

" of bottom, 62

Depth, in fathoms, 12

Nature of bottom, Sand and shells

Direction of ~~surface current~~ Wind, SW Force. 3

~~Force of surface current~~ Drift. S ½ E ½ m

Intermediate Temperature,

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

Name and position of observer,
A.P. Chapin.
Fireman.

931.

REMARKS.

First

Ammodytes americanus 4

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, 931.

Date, July 20

Locality, Vineyard Sound off Robinson's Hole

Bearings, Nobska Lgt. E ½ E. 8 m

Gay Head S ¼ W by S ½ S 5-½ m

Time of day, 1.42 PM ; of tide, flood

State of sky, cloudy

Temperature of air, 65

" surface of water, 63

" at depth of fathoms,

" of bottom, 62

Depth, in fathoms, 16

Nature of bottom, sand and shells

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

~~Force of surface current~~, Drift S ½ W ½ m

Intermediate Temperature

~~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, J. L. Tanner.

Lieut U.S. Navy

Name and position of observer,

A. P. Chapin.

Foreman.

932.

REMARKS.

Fish

Muraenoides gunnellus 1
Cottus aeneus juv. 1

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, 932

Date, July 20

Locality, Windward Sound off Larkey's Bay

Bearings, Tarpaulin Cove Lyt. W by S. ½ S 3 m

Nobska Lyt. N.E. by E. ¾

Time of day, 2.43 pm ; of tide, flood

State of sky, cloudy

Temperature of air, 67

" surface of water, 66

" at depth of 5 fathoms, 66

" of bottom, 66

Depth, in fathoms, 14

Nature of bottom, Rock

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

~~Force of surface current,~~ Drift NW by W ¼ m

~~Direction of bottom current,~~ Intermediate Temperature 10 of 65°

" " ~~Force of bottom current,~~

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

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

Lieut. U.S. Navy

Name and position of observer,

A. P. Chapin,

Yeoman.

933.

REMARKS.

No first.

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, 933

Date, July 20

Locality, Vicky and Sound off Viney and Haven

Bearings, Wht Chop Lt. S 3/4 E 3/4 m

Tarpaulin Cove Lt. W 7 m

Time of day, 3 30 PM ; of tide, flood

State of sky, cloudy

Temperature of air, 68

" surface of water, 65

" at depth of 5 fathoms, 64

" of bottom, 64

Depth, in fathoms, 14

Nature of bottom, stones

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

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

Intermediate Temperature

~~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, Z. L. Tanner.
Lieut. U.S. Navy,

Name and position of observer,
A. P. Chapin
Steward.

934.

REMARKS.

Fish.

Paralichthys dentatus	1
Muraenoides gunnellus	1
Prionotus Carolinus	6

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 934.

Date, July 20.

Locality, Off Falmouth Harbor

Bearings, Robbs Lgt. W 3/4 S 1 3/4 m
West chop Lgt. S 3/4 E 2 3/4 m

Time of day, 4:10 P.M. ; of tide, flood

State of sky, cloudy

Temperature of air, 68

" surface of water, 67

" at depth of 5 fathoms, 67

" of bottom, 67

Depth, in fathoms, 9

Nature of bottom, sand and gravel

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

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

Intermediate Temperature

~~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, J. L. Tanner, Lieut. U. S. Navy.

Name and position of observer, A. P. Chapin, Assistant.

935.

REMARKS.

Water Specimens

Depth of Specimen J. Spec Gr. at Fahr

" " " J

~~Temp surf Temp 70.5, 1.0242~~

~~5 fath 5 f 70, 1.0242~~

Long Knotted loop in rope about 60 fathoms from trawl when reeled in, trawl came up fouled and empty.

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 935

Date, Aug. 4

Locality, Off Nantucket

Bearings, Lat 39° 43'

Long. 69° 44' 45" W chr

Time of day, 8.14 ; of tide,

State of sky, fog

Temperature of air, 72

" surface of water, 70

" at depth of 5 fathoms, 69, 10, 66

" of bottom, 39.5

Depth, in fathoms, ~~770~~ 782

Nature of bottom, gn mud and s and

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

~~Force of surface current~~, Drift NW½N 2½ m

Intermediate Temperature, 20/48°

~~Direction of bottom current~~,

~~Force of bottom current~~, " 50 44'

Name of vessel, Fish Hawk

To what service attached, U. S. Fish Commission.

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

Name and position of observer,

A. P. Chapin
Foreman.

936.

REMARKS.

Water Specimens

Apparatus used

Depth of Spec.	Spec. Grav. at	Degrees Fahr.
Surf.	~~Temp~~ 70.5	1.0242	1.02572775
5 fathoms	70°	1.0242	1.02565

At Merid. while leaving in transit. Sat. ⊕ 39.. 48.. 25 h.
Latitudes of Casts corrected by Merid. obs.

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 936.

Date, Aug. 4

Locality, Off Nantucket

Bearings, Lat 39°46' 30" N
Long 69° 47' W

Time of day, 10.43 am ; of tide,

State of sky, clear

Temperature of air, 78

" surface of water, 71

" at depth of 5 fathoms, 69 10 f 61

" of bottom, 39.5

Depth, in fathoms, ~~705~~ 716

Nature of bottom gn mud

Direction of ~~surface current~~ Wind, NNE. Force 3

~~Force of surface current~~ Drift, NW 3/8 W 2

Intermediate Temperature, 20 f 44°

~~Direction of bottom current~~,

" " ~~Force of bottom current~~, 60 f 52°

Name of vessel, Fish Hawk.

To what service attached, U.S. Fish Commission

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

Name and position of observer,
A. P. Chapin.
Yeoman.

237.

REMARKS.

Water Specimens.

Depth of Spec.	Spec. Grad.	at Degrees Fahr.	at 60° Fahr.
Surf	1.0237	75	1,025965
5 fathoms	1.0238	72	1.025364

Lead going down 6 minutes
" coming up 12
Trawl rope going out 20
" " hauling in 36
Trawl down 23 m

Large Octopus

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 937.

Date, Aug 4

Locality, Off Nantucket

Bearings, 39° 49' 25"
69° 49'

Time of day, 12.45 pm ; of tide,

State of sky, clear

Temperature of air, 75-

" surface of water, 72

" at depth of 5 fathoms, 67 10/ 5 2

" of bottom, 40.5

Depth, in fathoms, ~~6 0 6~~ 616

Nature of bottom, ~~5 0 6~~ gr mud and sand

Direction of ~~surface current~~ Wind, NNE Force. 2

~~Drift~~

~~Force of surface current~~, N 2½ m

Intermediate Temperature.

~~Direction of bottom current~~, 20/ 49°

" " ~~Force of bottom current~~, 50/ 53°

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

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

Name and position of observer,

A. P. Chapin
Recorder.

REMARKS.

Water Specimens.

Apparatus Used

Depth of Spec.	Spec. Gravity	at Degrees Fahr.	at 60° Fahr.
Surf.	1.0238	73	1.025-724
5 fath.	1.024	71.5	1.025-68473-
		,	

Lead going down 4 m
" coming up 7 m
Trawl rope going out 2,54 to 3.10
" down 3.10 to 3,42
" Coming up 3,42 to 4.12

TEMPERATURE RECORD.

Instrument used, Travel

Current number of observation, 938

Date, ~~Off Nantucket~~ Aug. 4.

Locality, Off Nantucket

Bearings, Lat 39° 5-1'

Long. 69° 49' 15" Chr.

Time of day, 2.44 ; of tide,

State of sky, clear

Temperature of air, 80

" surface of water, 72,5

" at depth of 5- fathoms, 69. 10 } 57

" of bottom, 42

Depth, in fathoms, ~~310~~ 317

Nature of bottom, gray mud and sand

Direction of ~~surface current~~ Wind, calm Force 0

~~Force of surface current~~ Drift NNW 2 m

Intermediate Temperature 20 } 5-0

~~Direction of bottom current~~,

~~Force of bottom current~~, " 4 5-0 } 5-3°

Name of vessel, Fish Hawk.

To what service attached, U.S. Fish Commission

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

Name and position of observer,

A.P. Chapin
Scientific Assistant.

REMARKS.

Water Specimens.

Apparatus Used

Depth of Specimen	Spec Grav. of	at Degrees Fahr.	at 60° Fahr.
Surf	1.0238	72.5	1.02364373
5 f.	1.024	71	1.02364373

Lead going down 4 m
" Coming up 7 m
Trawl going down 4.25 to 4.45
" down 4.45 to 5.08
" coming up 5.08 to 5.30

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 939

Date, Aug. 4

Locality, Off Nantucket

Bearings, Lat. ~~39°.5-3~~ N 39.5-3

Long. 69°.50'.30"

Time of day, 4.25 pm ; of tide,

State of sky, Clear

Temperature of air, 78

" surface of water, 73

" at depth of 5 fathoms, 70 10 f. 67

" of bottom, 47

Depth, in fathoms, ~~258~~ 264

Nature of bottom, gr. mud and sand

Direction of ~~surface current~~ Wind, SW x W Force 1

~~Force of surface current~~ Drift, NNW 1½ m

Intermediate Temperature 20 f. 57

~~Direction of bottom current~~,

" " ~~Force of bottom current~~, 50 f. 56

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

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

Lieut. U.S. Navy,

Name and position of observer,

A. P. Chapin

Yeoman.

REMARKS.

Water Specimens.

Apparatus Used

Depth of Specimen	Spec. Gravity	at Degrees Fahr.	at 60° Fahr.
Surf.	1.024	71.5	1.025-6847
5 fathoms	1.0242	71	1.025806

Lead going down 2 m
" Coming up 4 m
Trawl going down 5.40 to 6.00
" down 6.05 to 6.22
" coming up

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 940.

Date, Aug. 4

Locality, Off Nantucket

Bearings, Lat. 39° 5' N.

Long. 69° 51, 30

Time of day, 5.30 ; of tide,

State of sky, clear

Temperature of air, 76

" surface of water, 72

" at depth of 5- fathoms, 70 10 62

" of bottom, 52

Depth, in fathoms, ~~130~~ 134

Nature of bottom, sand

Direction of ~~surface current~~, Wind SW×W Force 1

~~Force of surface current~~, Drift NNW½W 2m

~~Intermediate Temperature~~ 20 49

~~Direction of bottom current~~,

" " ~~Force of bottom current~~, 50 49 5-

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

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

Name and position of observer, A.P. Chapin. Ironman.

941

REMARKS.

Water Specimens.

Apparatus Used

depth of Spec	Specific Gravity	at Degrees	at 60°
Surf	1,0244	71	1.025-606
5 fath	1,024 25	70.5	1.025-775

Lead going down 1½ m
" coming up 2½ m
Trawl going down 8 m
" down 25
" Coming up 8

770
484
263

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 941

Date, Aug 4

Locality, Off Nantucket

Bearings, Lat 40,01

Long 69° 5-6

Time of day, 7,45 P.M. ; of tide,

State of sky, clear

Temperature of air, 74

" surface of water, 71

" at depth of 5 fathoms, 70 10 / 5 8

" of bottom, 5 2

Depth, in fathoms, 76 79

Nature of bottom, Sand & mud

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

~~Force of surface current~~, drift W NW 1½ m

~~Direction of bottom current~~, Temperature at 20 f.

~~Force of bottom current~~, " 50 f.

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

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

Name and position of observer,
A.P. Chapin

942.

REMARKS.

Water Specimens.

Apparatus Used

Depth of Spec.	Specific Gravity	at Degrees	at 60°
Surf	1,024	69	1,025287
5 fath.	1,0242	68	1,025336

Lead going down 3
" coming up 5
Trawl going down 6,18 to 6,30
" down 6,30 to 6,55
" coming up. 6,55 to

Dredge empty.

Fish trawl pert down at same time and a little north of starting point of Dredge 942, 158½ lbs of Lopholatilus taken in fish trawl also quantity of hake. Largest Lopholatilus weighed 29 lbs.

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, 9 4 2

Date, Aug 9.

Locality, Lat 40,01 N

Bearings, Long. 71 12 30 W

pm

Time of day, 6,15 ; of tide,

State of sky, clear

Temperature of air, 72

" surface of water, ~~72~~ 69

" at depth of 5 fathoms, 69, 10 / 65

" of bottom, 5-0

Depth, in fathoms, ~~134~~ 138

Nature of bottom, Sand mud

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

~~Force of surface current~~, Drift S W & W 2 m

~~Temperature at~~ 20 / 5-2

~~Direction of bottom current~~,

~~Force of bottom current~~, " 5-7 / 5-3

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission.

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

Name and position of observer,
A.P. Chapin

REMARKS.

Water Specimens.

Apparatus Used

Depth of Specimen	Specific Gravity	at Degrees	at 60°
Surf.	1,02378	70	1,02525
5 feet.	1,02383	69	1,02537

Lead going down

" coming up

Travel going down. 7,14 to 7,28

" down 7,28 to 7,52

" coming up. 7,52 to 8,40

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, F 943

Date, Aug. 9

Locality, Lat 40 N

Bearings, Long. 71 14 30 W

Time of day, 7.10 Am ; of tide,

State of sky, clear

Temperature of air, 76

" surface of water, 70

" at depth of 5- fathoms, 69, 10/65

" of bottom, 49

Depth, in fathoms, ~~155~~ 157

Nature of bottom, mud, sand & shells

Direction of ~~surface current~~, Wind S W Force 1

~~Force of surface current~~, Drift N W x N 2½ m

~~Direction of bottom current~~, Temperature at 20/52

~~Force of bottom current~~, " " 50/53

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

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

Name and position of observer, A. P. Chapin

REMARKS.

Water Specimens.

Apparatus Used

Depth of Specimen	Specific Gravity	at Degrees	at 60°
Surf	1.0238	70	1,024-25
5 fath	1.02385	70	1,025-3

Lead y oing down 4 m
" coming up. 7 m
Trawl y oing down 8,27 ~~8,40~~
" down 8,40 to 9,13
" coming up. 9,13 to 9,20

TEMPERATURE RECORD.

Instrument used, Thermometer

Current number of observation, 944

Date, Aug. 9

Locality, Lat. 40,01 N

Bearings, Long. 71, 14, 30 W

Time of day, 8,27 ; of tide,

State of sky, Clear

Temperature of air, 78°

" surface of water, 70°

" at depth of 5 fathoms, 68, 10/66

" of bottom, 51°

Depth, in fathoms, ~~124~~, f. 128

Nature of bottom, S. m. sh.

Direction of ~~surface current~~ Wind, S. W. Force 1

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

~~Direction of bottom current~~, Temperature at 20/50

~~Force of bottom current~~, 50/

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

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

Name and position of observer,
A. P. Chapin

12.12

945.

REMARKS.

Water Specimens.

Apparatus Used

Depth of Specimen	Specific Gravity	at 60 degrees	at 60 degrees
Surf.	1.02385	71	1.025-45-6
5 fath	1.0239	70½	1.025-42-75

Lead going down 4 m

" coming up 7 m

Trawl going down 12,19 to 12,39

" down 12,39 & ~~1,05~~ 1,05

" coming up 1,05 to 1,22

TEMPERATURE RECORD.

Instrument used, Trowe

Current number of observation, 745

Date, Aug. 9

Locality, Lat 39° 38 N

Bearings, Long 71, 13 W

Time of day, 12.05 ; of tide,

State of sky, clear

Temperature of air, 75

" surface of water, 71

" at depth of 5 fathoms, 70.1 D 67.

" of bottom, 44

Depth, in fathoms, ~~2 0 2~~ 207

Nature of bottom, fine mud & Sand

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

~~Force of surface current~~, Drift NW x N 2 m

~~Direction of bottom current~~ Temperature at 207. 58

~~Force of bottom current~~ " " 5 67. 63

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

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

Name and position of observer,
A. P. Chapin

946.

REMARKS.

Water Specimens

Apparatus Used

Depth of Specimen	Specific Gravity	at degrees	at 60 degrees
Surf.	1,02385	71,5	1,02553475
5 fath.	1,0242	68	1,025336

Lead going down 5

" coming up 9

Travel going down 2h 13m to 2h 40m

" down 2,40 to 3,05

" coming up 3,05 to 3,20

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 946

Date, Aug 9

Locality, Lat. 39.55 30

Bearings, Long 71.14

Time of day, 2.00 Pm ; of tide,

State of sky, clear

Temperature of air, 75.5

" surface of water, 71

" at depth of 5 fathoms, 61, 10 of 55

" of bottom, 47

Depth, in fathoms, ~~239~~ ~~241~~ 247

Nature of bottom, gn mud & sand

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

~~Force of surface current~~, Drift NW by W 1½

~~Direction of bottom current~~, Temperature at 20 of 51

~~Force of bottom current~~, " " 50 of 52

Name of vessel, Fish Hawk

To what service attached, U.S. Fish Commission

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

Lieut. U.S. Navy

Name and position of observer,

A. P. Chapin

947.

REMARKS.

Water Specimens.

Apparatus Used

Depth of Specimen	Specific Gravity	at degrees	At 60 degrees
Surf.	1.02386	70	1,025-3
5 Fath	1.0246	65	1,025-29

Lead going down 7m
" coming up 4.04 to 4.14
Trawl going down 4.13 to 4.40
" down 4.40 to 5.00
" coming up 5.00 to 5.20

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 947

Date, Aug. 9.

Locality, Lat 39. 3-3, 30 N

Bearings, Long 71, 13, 30 W

Time of day, 4, 00 P.M. ; of tide,

State of sky, clear

Temperature of air, 75-

" surface of water, 70

" at depth of 5- fathoms, 60, 10 / 33-

" of bottom, 44

Depth, in fathoms, ~~3+2~~ 317

Nature of bottom, sand & mud

Direction of ~~surface current~~, Wind S W Force 4

Force of ~~surface current~~, Drift W NW 9 m

~~Direction of bottom current~~, Temperature at 20 / 50

Force of ~~bottom current~~, " 30 / 50

Name of vessel, Fish Hawk

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

Name and rank of commanding officer, J.I. Tanner
Lieut. U.S. Navy

Name and position of observer,
A.P. Chapin

9 4 8.

REMARKS.

Water Specimens.

Apparatus used

Depth of Specimen	Specific Gravity	at degrees	at 60°

Lead going down
" coming up
Frank going down
" down
" coming up

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, ~~948~~ 948

Date, Aug. 13

Locality, Buzzards Bay ~~[illegible]~~

Bearings, Penikese Island E 2 m.
Pen.

Time of day, 5:20 ; of tide,

State of sky, clear

Temperature of air, 76

" surface of water, 67

" at depth of ~~[illegible]~~ fathoms,

" of bottom, 66

Depth, in fathoms, 7

Nature of bottom, bl. mud and shells

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

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

~~Direction of bottom current,~~ Temperature at

~~Force of bottom current,~~ " "

Name of vessel, Fish Hawk

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

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

Name and position of observer,
A. P. Chapin

9 H 9.

REMARKS.

Water Specimens.

Apparatus Used

Depth of Specimen	Specific Gravity	Adgusted at 65°	at 60°
Surf.	1.025-2	65°	1.025-89
5 fath.	1.025-2	65°	1.025-89

Lead going down.
" coming up.
Trawl going down. 6 in
" down 5.06 to 5.36
" coming up.

Soundings.

Depth in fathoms	Time Down.	Time Up.
100		
200		
300		
400		
500		
600		
700		
800		
900		
1000		

Trawlings

Time Down.	Time Up.
5.03	5.40
5.06	5.36

TEMPERATURE RECORD.

Instrument used, Rake Dredge

Current number of observation, 949

Date, Aug 23

Locality, Lat. 40°. 03 N.

Bearings, Long. 70 31 W.

Time of day, 4.20 pm; of tide,

State of sky, clear

Temperature of air, 68

" surface of water, 66

" at depth of 5 fathoms, 66, 10 fath. 66

" of bottom, 5-2

Depth, in fathoms, 100

Nature of bottom, Yellow mud

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

Force of ~~surface current~~, Drift NNW 2 m

~~Direction of bottom current~~, Temperature at 20 fath. 48.5

" " ~~Force of bottom current~~, 50 fath. 50

Name of vessel, Fish Hawk

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

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

Name and position of observer, A. P. Chapin

95-0

REMARKS.

Water Specimens

Apparatus Used

Depth of Specimen	Specific Gravity	at degrees	at 60°
Surf	1.025	60 1/2	1.025+
5 fath.	1.02485	65	1.0255-4

Lead going down 2

" coming up 4

Trawl going down

" down 6.05 to 6.29

" Coming up

Soundings. Depth in fathoms	Time Down	Time Up.	Trawling: Time Down	Trawling: Time Up
100	3 m	5 m	m. sec 2.30	6.36.15 / 6.32.30
200			m sec 3.10	6.29
300				
400				
500				
600				
700				
800				
900				
1000				

TEMPERATURE RECORD.

Instrument used, Travel

Current number of observation, 95-D

Date, Aug. 23

Locality, Lat. 40° 07 N

Bearings, Long. 70° 32 W

Time of day, 5-5 Am. ; of tide,

State of sky, clear

Temperature of air, 69 ~~X~~

" surface of water, 65

" at depth of 5 fathoms, 6410 fath. 63

" of bottom, 5-2

Depth, in fathoms, 69 7 f.

Nature of bottom, Sand ~~X~~ Shells + mud

Direction of ~~surface current~~ Wind W Force 4

~~Force of surface current~~, Drift N N W 1½

~~Direction of bottom current~~, Temperature at 20 fath. 47

" " ~~Force of bottom current~~, 50 fath.

Name of vessel, Fish Hawk

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

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

Name and position of observer,
A. P. Chapin

95-1.

REMARKS.

Water Specimens

Apparatus Used

Depth of Specimen	Specific Gravity	at degrees	at 60°
Surf.	1.02485	67 ½	1,0259125
5 fath	1.025	67	1,025987

Lead going down 5 m
" coming up 8 m
Trawl going down 9.52 to 10.09
" down 9. 10,09 to 10,25
" coming up 14 ½ m

Depth in fathoms	Soundings. Time Down	Soundings. Time Up	Trawlings. Time Down	Trawlings. Time Up
			9.52	10.39.30
100	2	1,50	9,55	10,35.35
200	3	3,10	9.58	10.32,15
300			10,03	10.29
400			10,07,30	10,27
500			20 f. 10.09	10,25
600				
700				
800				
900				
1000				

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 95-1

Date, Aug. 23

Locality, Lat. 39° 5' N

Bearings, Long. 70 31 30 W

Time of day, 9.40 pm ; of tide,

State of sky, clear

Temperature of air, 78

" surface of water, 67 1/2

" at depth of 5 fathoms, 65; 10 fath. 64

" of bottom, 41

Depth, in fathoms, 219 225

Nature of bottom, Mud

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

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

~~Direction of bottom current~~, Temperature at 20 fath. 49

~~Force of bottom current~~, " 50 fath. 52

Name of vessel, Fish Hawk

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

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

Name and position of observer,
A.R. Chapin.

95-2.

REMARKS.

Water Specimens.

Apparatus used.

Depth of Specimen	Specific Gravity	at temperature of	at 60 degrees
Surf.	1.025-25	67,5	1.026311 25
5 fath.	1.025-04	67	1.026037

Lead going down - 8 m.
" coming up. 11.38.30 to 11.48
Trawl going down. 11.46 to 12.11.10
" down. 12.11.10 to 12.30
" coming up. 12.30 to 12.53.20

Soundings	Time		Trawlings	Time	
Depth in fath.	Down m. & sec.	Up. 11.48		Down 11.46	Up 12.50 3.0
100	2 m	11.46		11.48.15	12.52,10
200	2.15	11.42.40		11.50.46	12.49,12
300	2.40	11.40		11.52.45	12.46,10
400	4.05	11.38.30		11.55.15	12.42,15
500				12.02.20	12.35.40
600				12.11.10	12.30
700					
800					

952

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 952

Date, Aug 23

Locality, Lat. 39 5-5 N.

Bearings, Long. 70 ,28 W

Time of day, 11 .28 ; of tide,

State of sky, clear

Temperature of air, ~~72~~ 82

" surface of water, 68

" at depth of 5 fathoms, 66 , 10 fath. 63

" of bottom, 40

Depth, in fathoms, 388 396.

Nature of bottom, yellow mud & sand

Direction of ~~surface current~~ Wind WNW Force 2

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

~~Direction of bottom current~~, Temperature at 20 fath. 49

~~Force of bottom current~~, " 50 fath. 53

Name of vessel, Fish Hawk

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

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

Name and position of observer,
A.P. Chapin

953

REMARKS.

Water Specimens.

Apparatus Used.

Depth of Specimen	Specific Gravity	at temperature of	at 60 degrees
Surf.	1,025	69	1,026287
5 fath.	1,025 05	67,5	1,026111 25

Lead going down. 8 m
" down. 6 m ~~10,5 m~~
" coming up. 10,5
Trawl going down 3,23,30 to 3,57
" down. 3,57 to 4,20
" coming up. 4,20 to

Depth in fath	Sounding's Time Down	Sounding's Time Up	Trawling's Down	Trawling's Up
100	2,25 / 2,26,10	3,21,50 / 3,26,30	3,23,30 / 3,27,20	4,58,15 / 4,49,45
200	2,27	3,18,50	3,31	4,46,42
300	2,28,20	3,17,10	3,34,10	4,43,25
400	2,29,30	3,16	3,36,55	4,40,05
500	2,30,40	3,14,30	3,39,30	4,36,34
600	2,31,50	3,12,30	3,42,08	4,32,40
700	2,33	3,11	3,46,05	4,28,44
800			3,51,40	4,24,50
900			3,57	4,20,40
1000				

Lost lead & thermometer

lost 120

TEMPERATURE RECORD.

Instrument used, ~~Nothing~~ Trawl

Current number of observation, 953.

Date, Aug 28

Locality, Lat. 39 52 30 N

Bearings, Long. 70 17 30 W

Time of day, 2.30 pm ; of tide,

State of sky, clear

Temperature of air, ~~77 72~~ 77.

" surface of water, ~~70~~ 68

" at depth of 5 fathoms, 64, 10 fath. 62

" of bottom, 39.5

Depth, in fathoms, ~~71.5~~ ~~85.0~~ (~~No bottom~~ 72.4)

Nature of bottom, mud

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

~~Force of surface current,~~ Drift NNW 1½ m

~~Direction of bottom current,~~ Temperature at 20 fath. 53

~~Force of bottom current,~~ " 50 fath. 54

Name of vessel, Fish Hawk

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

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

Lieut. U.S. Navy.

Name and position of observer,

A. P. Chapin.

Lost ♈42663 was put in its place on sounding line since last 120 fathoms were.

95-4.

REMARKS.

Water Specimens.

Apparatus Used.

Depth of Specimen	Specific Gravity	at temperature of	at temperature of 60°
Surf.	1,0248-5	68	1,0239 86
5 Fathoms	1.02485	67,5	1,0239 1125

Lead going down. 7,4 m sec.
" coming up. 9,5 3
Travel going down 23
" down
" coming up.

Depth in Fath.	Soundings Time Down	Soundings Time Up	Trawlings Time Down	Trawlings Time Up
100	4,5-1	5-13,38	5,19,12	6,24,22
200	4,47,56	5,12,10	5,22,04	6,21,25
300	4,52,46	5,10,43	5,24,18	6,18,24
400	4,53,12	5,09,07	5,26,10	6,15,12
500	4,54,55	5,07,35	5,28	6,11,48
600	4,56,08	5,06,50	5,29,24	6,08,19
700 42	4,57,34	5,05,20	5,33,74	6,04,32
800			6,39,27	6,01,10
900				
1000				

TEMPERATURE RECORD.

Instrument used, Frame

Current number of observation, 95-4

Date, Aug 23

Locality, Lat 34 53 N

Bearings, Long. 70.18 .30 W

Time of day, 4.30; of tide,

State of sky, Clear

Temperature of air, 74.5

" " surface of water, 68

" at depth of 5 fathoms, 65, 10 fath. 63

" of bottom, 39.5

Depth, in fathoms, ~~642~~ 651 ft.

Nature of bottom, Sand & mud

Direction of ~~surface current~~ Wind W.N.W. Force 2

~~Force of surface current~~, Drift NNW 2 m

~~Direction of bottom current~~, Temperature at 20 fath. 50

" " ~~Force of bottom current~~, 50 fath. 53

Name of vessel, Fish Hawk

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

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

Name and position of observer,
A.P. Chapin

Started homeward at 6.45 P.M.
Log 164½

95

REMARKS.

Water Specimens.
Apparatus used.

Depth of Specimen	Specific Gravity	At temperature of	at 60°
Surface	1,0232	68.5	1,02441125
5 fathoms	1,02385 ~~1,02485~~	69.5	1,02521325

Lead going down.
" coming up.
Trawl going down.
" down.
" coming up.

Soundings			Trawlings	
Depth in fath.	Time Down	Time Up.	Time Down	Time Up.
100		6.39.04		
200		6.37.42		
300		6.35.48		
400		6.34.42		
500		6.32.33		
600		6.30.55		
700		6.29.30		
800				
900				
1000				

TEMPERATURE RECORD.

Instrument used, Trawl with Wings

Current number of observation, 955

Date, Aug. 26

Locality, Buzzards Bay

Bearings, Nye's Neck

E by S 1/4 m

Time of day, 10.50 ; of tide, Ebb

State of sky, clear

Temperature of air, ~~71~~ 69

" surface of water, 67.5

" at depth of 5 fathoms, 10 fath.

" of bottom, 68

Depth, in fathoms, ~~620~~ 7

Nature of bottom, sand

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

~~Force of surface current~~, Drift W by S 1/4 S 1/2 m

~~Direction of bottom current~~, Temperature at 20 fath. } 46405

" " ~~Force of bottom current~~, 50 fath.

Name of vessel, Fish Hawk

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

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

Lieut. U.S. Navy

Name and position of observer,

A. P. Chapin.

95-6.

REMARKS.

Water Specimens.

Apparatus Used.

Depth of Specimen	Specific Gravity	at temperature of	at 60°
Surface	1.0228	69.8	1.024087
5 fathoms	1.0227	71	1.024306

Lead going down
" down
" coming up.
Trawl going down
" down
" coming up.

Depth in fathoms	Soundings Time Down	Soundings Time Up.	Trawlings Time Down	Trawlings Time Up.
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

TEMPERATURE RECORD.

Instrument used, Trant with wings

Current number of observation, 95-6.

Date, Aug. 26.

Locality, Buzzards Bay

Bearings, Nyes Neck S SE 3/4 E 1/8

Time of day, 11, 26 Am ; of tide, Ebb

State of sky, Clear

Temperature of air, 71

" surface of water, 69

" at depth of 5 fathoms, 10 fath

" of bottom, ~~sand~~ 68

Depth, in fathoms, 5-1/4

Nature of bottom, Sandy

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

~~Force of surface current~~, Drift Wky S 1/4

~~Direction of bottom current~~, Temperature at 2 0 fath.

~~Force of bottom current~~, " " 5 0 fath.

Name of vessel, Fish Hawk

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

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

Name and position of observer, A. P. Chapin

957.

REMARKS.

Water Specimens.

Apparatus Used.

Depth of Specimen	Specific Gravity	at temperature of	at 60°
Surface	1.0227	69.5	1.02406325
5 fathoms	1.0228	70	1.02425

Lead going down.
" down.
" coming up.
Trawl going down.
" down.
" coming up.

Soundings			Trawlings	
Depth	Time		Time	
in fath.	Down.	Up.	Down.	Up.
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

TEMPERATURE RECORD.

Instrument used, Trawl with arrays

Current number of observation, 95-7

Date, Aug. 26

Locality, Buzzards Bay

Bearings, Mill's Neck S/SE 3/4E 1/8

Time of day, 11, 43; of tide, Ebb

State of sky, clear

Temperature of air, 73

" surface of water, 69.5

" at depth of 5 fathoms, 10 fath.

" of bottom, 68

Depth, in fathoms, 6

Nature of bottom, Sand & Stones

Direction of ~~surface current~~, Wind S W Force 4

~~Force of surface current~~, Drift W 3/4 N 1/4

~~Direction of bottom current~~, Temperature at 20 fath.

~~Force of bottom current~~, " 5-0 fath.

Name of vessel, Fish Hawk

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

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

Name and position of observer, A. P. Chapin

95-8.

REMARKS.

Water Specimens.

Apparatus Used.

Depth of Specimen	Specific Gravity	at Temperature of	at 60°
Surface	1.0227	70°	1.02415
5 fathoms	1.02285	69.5°	1.02421325

Lead going down
" down
" coming up
Trawl going down
" down
" coming up.

Depths in Fath.	Sounding's Time Down	Sounding's Time Up.	Trawlings Time Down	Trawlings Time Up.
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

TEMPERATURE RECORD.

Instrument used, Travel with Dividings

Current number of observation, 95-8.

Date, Aug. 26

Locality, Buzzard's Bay

Bearings, Nyes Neck S 1/4 E 1/4 E 1/3 m

Rm.

Time of day, 12.20 ; of tide, Ebb

State of sky, Clear

Temperature of air, 75

" surface of water, 70

" at depth of 5 fathoms, 10 fath.

" of bottom, ~~Sand & Stones~~ 68

Depth, in fathoms, 5

Nature of bottom, Sand & Stones & Shells

Direction of ~~surface current~~ Wind, SW Force 5

~~Force of surface current~~, Drift WSW 1/3

Temperature at ~~Direction of bottom current~~, 20 fath.

" " ~~Force of bottom current~~, 5-0 fath.

Name of vessel, Fish Hawk

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

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

Lieut. U.S. Navy

Name and position of observer, A. P. Chapin

959.

REMARKS.

Water Specimens.

Apparatus Used.

Depth of Specimen	Specific Gravity	at temperature 1	at 60°
Surface	Water dirty		
5 fathoms			

Lead going down.
" down.
" coming up.
Trawl going down.
" down.
" coming up.

Sounding	Time		Trawling	Time	
Depth in fath.	Down	Up		Down	Up.
100					
200					
300					
400					
500					
600					
700					
800					
900					
1000					

TEMPERATURE RECORD.

Instrument used, Trowl

Current number of observation, 959

Date, Aug 26

Locality, Buzzards Bay

Bearings, Nyes Neck S ½ m

Time of day, 12.40 ; of tide, Ebb

State of sky, clear

Temperature of air, 72

" surface of water, 69

" at depth of 5 fathoms, 10 fath.

" of bottom, 68

Depth, in fathoms, 5

Nature of bottom, Sand & Stones & Shells

Direction of ~~surface current,~~ Wind S W Force 5

~~Force of surface current,~~ Drift W ½

Temperature at 20 fath.

~~Direction of bottom current,~~

~~Force of bottom current,~~ " " 50 fath.

Name of vessel, Fish Hawk

To what service attached, U. S. F Commission

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

Lieut. U. S. Navy.

Name and position of observer,

A. P. Chapin

960.

REMARKS.

Water Specimens.
Apparatus Used.

Depth of Specimen Surface 5 fathams	Specific Gravity	at Temperature of Water dirty	at 60°

Lead going down.
" down.
" coming up.
Trunk going down
" down
" coming up.

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 960

Date, July 26

Locality, Buzzards Bay

Bearings, Nyes Neck S 3/4 E ½ m
0 m

Time of day, 1.10 ; of tide,

State of sky, clear

Temperature of air, 72.5°

" surface of water, 69.5°

" at depth of 5° fathoms, 10 fath.

" of bottom, 68

Depth, in fathoms, 4 ½

Nature of bottom, sand & stone shells

Direction of ~~surface current~~, Wind SW Force 5

~~Force of surface current~~, Drift SW×W ½ m

~~Direction of bottom current~~, Temperature at 20 fath.

~~Force of bottom current~~, " 50 fath.

Name of vessel, Fish Hawk

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

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

Name and position of observer,
A.R. Chapin

REMARKS.

73 fish
5-41 lbs
heaviest 8.1 lbs