

1196

188

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1196 to 1235

9

FISH HAWK.

1196

TO

1235

1221
1196

25-

W/2 S

Myra Lumber # 39175

~~1206 Ship Head 66x6 882~~

1209 Ship Head 48 888

Ship 54x48 Stand

~~600~~

$$\begin{array}{r} 1228 \\ 1197 \\ \hline 31 \end{array}$$

$$\begin{array}{r} 1203 \\ 1197 \\ \hline 6 \end{array}$$

1197

Specimens Obtained

Squid flounders crabs

~~Santa~~ Santaog Soup

King Lerat

1197

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*

Current number of observation, *1197*

Date, *Aug 9th 1887*

Locality, *Off Falmouth*

Bearings, *Nobaska bon S. N. by N 1/4 N.*

E. Chop light S 8 3/4 S.

Time of day, *10.50 am*; of tide, *Flood*

State of sky, *bc*

Temperature of air, *72°*

“ surface of water, *72*

“ at depth of ~~75~~ fathoms,

“ of bottom, *71.5*

Depth, in fathoms, *3 1/2*

Nature of bottom, *Shell sand*

Direction of ~~surface~~ ^{*Wind*} current, *S S W*

Force of ~~surface~~ ^{*Wind*} current, *2*

Direction of ~~bottom~~ ^{*Wind*} current, *East ~~75~~ 1/6*

Force of bottom current,

Name of vessel, *U S S Fish Hawk*

To what service attached, *U S F G*

Name and rank of commanding officer, *James A Smith*

Mate U S F G

Name and position of observer,

*J M Loughlin
Mate U S F G*

1298

REMARKS.

Specimens Taken

Spider Crabs Sea Robbino

Squid Hermit Crabs

Scup Sea Urchin Star Fish

Clams

1198

TEMPERATURE RECORD.

Instrument used, *Beam Trawl, 11 feet*
 Current number of observation, *1198*
 Date, ~~*Off Falmouth*~~ *Aug 9th 1887*
 Locality, *Off Falmouth*
 Bearings, *Wabeka Light N 1/2 S 2'*
Falmouth N 61 E 1'
 Time of day, *11.05 am*; of tide, *Flood*
 State of sky, *bc*
 Temperature of air, *70*
 " surface of water, *72°*
 " at depth of _____ fathoms,
 " of bottom, *71.5*
 Depth, in fathoms, *4 3/4*
 Nature of bottom, *Shell grass sand*
 Direction of ~~surface~~ ^{*Wind*} current, *SSW*
 Force of ~~surface~~ ^{*Wind*} current, *2*
 Direction of ~~bottom~~ ^{*Drift*} current, *East 1/2*
 Force of ~~bottom~~ ^{*Drift*} current,
 Name of vessel, *U S Fish Hawk*
 To what service attached, *U S F C*
 Name and rank of commanding officer, *James A. Smith*
Comdr U S N
 Name and position of observer,
J M Tenington
mate U S N

1199

REMARKS.

Specimens Obtained
Sea Robbins Scollap ^{Hermit} Crabs
Sea Anchin Squid Sea Bass

1199

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*Current number of observation, *1199*Date, *Aug 9th*Locality, *Off Falmouth*Bearings, *Abaka Light SW $\frac{1}{2}$ W $\frac{1}{2}$* ~~*Falmouth S $\frac{1}{2}$ E*~~ *& Chop light S E 9*Time of day, *11. 28 am*; of tide, *Flood* ~~*EE*~~State of sky, *bc*Temperature of air, *70*" surface of water, *72*

" at depth of fathoms,

" of bottom, *71.5*Depth, in fathoms, *4*Nature of bottom, *Shell sand gravel grass*Direction of surface current, *Wind SSW*Force of surface current, *Wind 2*Direction of bottom current, *drift ESE $\frac{1}{4}$*

Force of bottom current,

Name of vessel, *U S S Fish Hawk*To what service attached, *U S F C*Name and rank of commanding officer, *James A Smith**Master U S F*

Name and position of observer,

*J Moughton**Master U S F*

1200

REMARKS.

Specimens Obtained
Sea Robbers Spider Crabs
Hermit Crabs Scallops
Star fish Sea urchin

1200

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet*

Current number of observation, *1200*

Date, *Aug 9th 1887*

Locality, *Off Falmouth*

Bearings, *Watake light N x S 2'*

Falmouth or E x E 1/4 E Chop light SE x S 8 1/2'

Time of day, *11.49* ; of tide, *Flood*

State of sky, *bc*

Temperature of air, *70*

" surface of water, *71*

" at depth of _____ fathoms,

" of bottom, *72*

Depth, in fathoms, *5 1/4*

Nature of bottom, *sand shell mud*

Direction of ~~surface current~~ *wind* *SSW*

Force of ~~surface current~~ *wind* *2*

Direction of ~~bottom current~~ *drift* *S x E 1/2*

Force of bottom current,

Name of vessel, *U S Fish Hawk*

To what service attached, *U S F C*

Name and rank of commanding officer, *James A Smith*

Mate U S N

Name and position of observer,

J. M. Loughran
Mate U S N

1201

REMARKS.

Specimens Obtained
Haik Flounders Sea Robbins
Lautog Cummins

1201

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11) feet*

Current number of observation, *1201*

Date, *Aug 9th 1887*

Locality, *Off Falomnets*

Bearings, *Atoka light S W x W 1/2 W 1 1/4°*

E lighthouse S E x S 3/4 S. ~~Atoka light S W x W 1 1/4°~~

Time of day, *12 20* ; of tide, *Flood*

State of sky, *bc*

Temperature of air, *71*

“ surface of water, *71*

“ at depth of _____ fathoms,

“ of bottom, *72*

Depth, in fathoms, *2 1/2*

Nature of bottom, *hard gravel*

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

Force of ~~surface current~~ *wind 3*

Direction of ~~bottom current~~ *drift N E 24*

Force of bottom current,

Name of vessel, *U S Fish Hawk*

To what service attached, *U S F C*

Name and rank of commanding officer, *James A. Smith*

Mate U S N

Name and position of observer,

*J. M. [unclear]
Mate U S N*

1202

REMARKS.

Specimens Obtained

Hounders Crabs Lobsters

Sea Robbings Skates Eggs of squid

Star fish

1202

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*

Current number of observation, *1202*

Date, *Aug 9th 1887*

Locality, *Menemsha Light*

Bearings, *By Head Light $7\frac{1}{4}$ S $4\frac{1}{2}$ W*

Center Light $1\frac{1}{2}$ S $4\frac{1}{4}$ W, Lighthouse $7\frac{1}{2}$ S $4\frac{1}{2}$ W

Time of day, *3:50 P.M.*; of tide, *Ebb*

State of sky, *bc*

Temperature of air, *69*

" surface of water, *67*

" at depth of _____ fathoms,

" of bottom, *68*

Depth, in fathoms, *7*

Nature of bottom, *Sand (hard)*

Direction of surface current, *Wend SE*

Force of surface current, *Wend 3*

Direction of bottom current, *Drift SW $3\frac{1}{4}$ W $1\frac{1}{2}$ Miles*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

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

Name and rank of commanding officer, *James Admitt
Mate U.S. Fish*

Name and position of observer,

*J. M. Conington
Mate U.S. Fish*

1203

REMARKS.

Specimens Obtained

Leabton Skate Eggs of squid

Flouindon Star fish Sea Robbing

1203

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*Current number of observation, *1200*Date, *Aug 9th 1887*Locality, *Menasha Point*Bearings, *Greenwich Hold to by North Head N 4 S**Carpaulin Cove Light N N E. 3/8 E.*Time of day, *4:07*; of tide, *Ebb*State of sky, *bc*Temperature of air, *70*" surface of water, *69*

" at depth of _____ fathoms,

" of bottom, *67*Depth, in fathoms, *8*Nature of bottom, *Agard sand*Direction of ~~surface~~ *Wind* *SE*Force of ~~surface~~ *Wind* *3*Direction of ~~bottom~~ *drift* *N N 3/4 W, 1/4 mile*

Force of bottom current,

Name of vessel, *U. S. Fish Hawk*To what service attached, *U. S. F. C.*Name and rank of commanding officer, *James H. Smith**Master U. S. F. C.*

Name and position of observer,

*W. M. L. L. L.**Master U. S. F. C.*

1204

REMARKS.

Specimens Obtained
Skates lobsters squid flounders
Clams & shells

1204

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*

Current number of observation, *1204*

Date, *Aug 9 1887*

Locality, *Memphis, Right*

Bearings, *Bay Head N 3 W 1/2 S, Pauline Cove N E 1/4 1/2 S*

Center Quicks Hole N X W 1/4 N 3/4

Time of day, *4, 25 Pm*; of tide, *Ebb*

State of sky, *bc*

Temperature of air, *70*

" surface of water, *69*

" at depth of fathoms,

" of bottom, *68*

Depth, in fathoms, *9*

Nature of bottom, *hard sand*

Direction of ~~surface~~ *Wind* *SE*

Force of ~~surface~~ *Wind* *3*

Direction of ~~bottom~~ *Drift* *N 3/4 W 1/2*

Force of bottom current,

Name of vessel, *U S Fish Hawk*

To what service attached,

Name and rank of commanding officer, *Louis A Smith*
Master U S N

Name and position of observer,

W. L. Humphreys
Master U S N

1205

REMARKS.

Specimens Obtained
from Fish, Rock Eds

1205

TEMPERATURE RECORD.

Instrument used, *Snags*

Current number of observation, *1205*

Date, *Aug 11th, 1887*

Locality, *East Chop light*

Bearings, *Abake N N 3/4 W 2 1/2 miles, W X N 3/4 E 2 1/2,*

E Chop N X S 1/2 E

Time of day, *10.42 am*; of tide, *Flood*

State of sky, *bc*

Temperature of air, *73*

" surface of water, *71*

" at depth of _____ fathoms,

" of bottom, *72*

Depth, in fathoms, *10*

Nature of bottom, *Sand + shell + rock*

Direction of ~~surface~~ ^{*Wind*} current, *SSE*

Force of ~~surface~~ ^{*Wind*} current, *4*

Direction of ~~bottom~~ ^{*Drift*} current, *N X S, 1/4 mile*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

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

Name and rank of commanding officer, *James A. Smith*

Comdr U.S.N.

Name and position of observer,

W. M. Lighton
Master U.S.N.

1206

REMARKS.

~~at~~

Starfish clams spider crabs

1206

TEMPERATURE RECORD.

Instrument used,

therm

Current number of observation,

1206

Date,

Aug 11th 1887

Locality,

Off E Cape Light Virginia Sound

Bearings,

Abaka light - S 10 3/4 W 5/2

W at Cape W 10 3/4 W 1/2 E Cape W 5/2 W

Time of day,

10.55 am of tide, *Flood*

State of sky,

bc

Temperature of air,

73

"

surface of water,

70.5

"

at depth of

fathoms,

"

of bottom,

72

Depth, in fathoms,

11

Nature of bottom,

sand shell gravel mud

Direction of ~~surface~~ ^{*wind*} current,

SSW

Force of ~~surface~~ ^{*wind*} current,

H

Direction of ~~bottom~~ ^{*surface*} current,

E x S 1/4 S 1/2 mile

Force of bottom current,

Name of vessel,

U.S. Fish Hawk

To what service attached,

U.S.F.C.

Name and rank of commanding officer,

James A. Smith

Master U.S.N.

Name and position of observer,

J. M. Laughlin

Master U.S.N.

1207

REMARKS.

Same as 1206

1208

REMARKS.

Specimens Obtained
Same as 1206

TEMPERATURE RECORD.

Instrument used, *Snags*
 Current number of observation, *1208*
 Date, *Aug 11th 1887*
 Locality, *Off East Chop Light*
 Bearings, *Noboka N W 3/4 W &*
Edgartown E S 1/2 W E Chop N x N 3/4 W
 Time of day, *11.29* ; of tide, *Low*
 State of sky, *bc*
 Temperature of air, *73*
 " surface of water, *70.5*
 " at depth of _____ fathoms,
 " of bottom, *72*
 Depth, in fathoms, *10*
 Nature of bottom, *Light sand & shells*
 Direction of ~~surface current~~, *Wind SSW*
 Force of ~~surface current~~, *Wind 4*
 Direction of ~~bottom current~~, *Wife E x S 1/4 S, 1/2 mile*
 Force of bottom current,
 Name of vessel, *U.S. Fish Hawk*
 To what service attached, *U.S.F.C.*
 Name and rank of commanding officer, *James A. Smith*
 Matr U.S.N.
 Name and position of observer, *J. H. ...*
 Matr U.S.N.

1209

REMARKS.

~~Spider~~ Spider Crab Soup
Hermit Crab Paik

866674

TEMPERATURE RECORD.

Instrument used, *Bean Trawl (11 feet)*

Current number of observation, *1209*

Date, *Aug 11th 1887*

Locality, *Muskeget Channel*

Bearings, *SE End Martha's Vineyard S $W \frac{1}{2}$ S $\frac{1}{2}$ E*

Cape Cod S $W \frac{1}{2}$ E, S S W 3 miles SE $\frac{3}{4}$ E

Time of day, *12.50 P.M.*; of tide, *Flood*

State of sky, *bc*

Temperature of air, *70*

" surface of water, *69*

" at depth of _____ fathoms,

" of bottom, *69.5*

Depth, in fathoms, *5*

Nature of bottom, *~~fine sand~~ sand*

Direction of *Wind* *SSW*

Force of *Wind* *3*

Direction of *Drift* *North*
Surface current *SE $\frac{1}{4}$ S, $\frac{1}{4}$ mile*

Force of bottom current,

Name of vessel, *U.S.S. Fish Hawk*

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

Name and rank of commanding officer, *James H. Smith*
Master U.S.N.

Name and position of observer, *J. M. Wright*
Master U.S.N.

1219

REMARKS.

Specimens Obtained
Sculpin, Crabs & Hermit Crabs
& Sculp

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*

Current number of observation, *1260*

Date, *Aug 11th 1887*

Locality, *Muskeget Channel*

Bearings, *SE end Martha Vinjord S 44° X 8 1/4° E*

Muskeget Isle S E 7/2 E Cape Fog S 3/4 W 2 1/2

Time of day, *1.15 PM*; of tide, *Low*

State of sky, *bc*

Temperature of air, *70.5*

" surface of water, *70*

" at depth of _____ fathoms,

" of bottom, *71*

Depth, in fathoms, *3*

Nature of bottom, *Sand*

Direction of ~~surface current~~ *Wind SSW*

Force of ~~surface current~~ *Wind 3*

Direction of ~~bottom current~~ *Drift E 1/4 S 1/4 mile*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

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

Name and rank of commanding officer, *James A. Smith*

Name and position of observer,

*J. M. Wright
Mate U.S.F.*

1214

REMARKS.

Specimens Obtained
Horned Storm tube scup +
Small shell

~~orig Ed, 2/21/88~~ Bin

stand

TEMPERATURE RECORD.

Instrument used, *drag*

Current number of observation, *1211*

Date, *Aug 15 1887*

Locality, *off West Island Buzzard Bay*

Bearings, *sumppling light N 1/2 S*

Clarke N 5/8 W 1/4 N side NE N 1/4 E

Time of day, *10-18 Am*; of tide, *slack*

State of sky, *bc*

Temperature of air, *70*

“ surface of water, *69.5*

“ at depth of _____ fathoms,

“ of bottom, *71*

Depth, in fathoms, *6*

Nature of bottom, *black mud*

Direction of ~~surface~~ *wind* current, *SSW*

Force of ~~surface~~ *wind* current, *4*

Direction of ~~bottom~~ *drift* current, *SE 1/4 mile*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *USFB*

Name and rank of commanding officer, *James H. Smith
Mate U.S.A.*

Name and position of observer,

*Wilmington
Mate U.S.A.*

1212
REMARKS.

Specimens Obtained
Spider crab Cordele Sea Robin
Flounder Squilla

SSEX & Rain Wind

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*

Current number of observation, *1212*

Date, *Aug 15 1887*

Locality, *Off West Island New York Bay*

Bearings, *Dumpling Light N 1/2 S*

Clarke Pt Lt N 1/2 W Side Pt Lt N 1/2 E

Time of day, *10.25* ; of tide, *Flood*

State of sky, *bc*

Temperature of air, *70*

" surface of water, *70*

" at depth of _____ fathoms,

" of bottom, *71*

Depth, in fathoms, *7*

Nature of bottom, *Shell Grass*

Direction of ~~Wind~~ *Wind SSW*

Force of ~~surface current~~ *Wind 4*

Direction of ~~bottom current~~ *drift 4 E 1/4*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

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

Name and rank of commanding officer, *James A. Smith*

Master U.S.N.

Name and position of observer,

*John M. Smith
Master U.S.N.*

1213

REMARKS.

Specimens Obtained
Squid eggs Spider crabs Sculpin
Flounder Conch shell

Drift 886

rain

TEMPERATURE RECORD.

Instrument used. *Beam Trawl 111 feet*

Current number of observation, *1213*

Date. *Aug 15th 1887*

Locality, *Off West Island New Zealand*

Bearing. *Sampling Light West*

Uluka Pt Lt S 44 W 1/4 W. Uluka Pt Light N 1/2 E

Time of day, *10-50* ; of tide, *Flood*

State of sky, *bc*

Temperature of air, *70*

" surface of water, *70*

" at depth of fathoms,

" of bottom, ~~70~~ *70.5*

Depth, in fathoms, *7 1/2*

Nature of bottom, ~~7 1/2~~ *Shell ground*

Direction of ~~surface current~~ *Wind SSW*

Force of ~~surface current~~ *Wind SSW 4*

Direction of ~~bottom current~~ *Drift 4 1/2 E 1/4 mile*

Force of bottom current,

Name of vessel, *U.S.S. Fish Hawk*

To what service attached, *U.S.S. 76*

Name and rank of commanding officer, *James H. Smith
Mate U.S.S.*

Name and position of observer,

*Wilmington
Mate U.S.S.*

1214

REMARKS.

Specimens Obtained
from shell spider crabs

Wife 888

211

TEMPERATURE RECORD.

Instrument used, *Beam Thermometer* 01 feet

Current number of observation, *1214*

Date, *Aug 15th 1887*

Locality, *Off West Island New and Bays*

Bearings, *Thompson's Pt N 1/4 S*

Alaska Pt 1/2 St 2 W 1/2 W 1/2 W 1/2 St North

Time of day, *11.20* ; of tide, *Flood*

State of sky, *bc*

Temperature of air, *69.5*

.. surface of water, *70*

.. at depth of .. fathoms,

" of bottom, *71*

Depth, in fathoms, *7 1/4*

Nature of bottom, *Shell & grass*

Direction of ~~surface~~ *Wind*, *SSW*

Force of ~~surface~~ *Wind*, *4*

Direction of ~~bottom~~ *drift*, *SE 1/4*

Force of bottom current,

Name of vessel, *U.S.S. Fish Hawk*

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

Name and rank of commanding officer, *Jesse A. Condit*

Mate U.S.A.

Name and position of observer,

J. M. Loringham
Mate U.S.A.

1215
REMARKS.

Specimens Obtained
Shells worme

Drift - SSE 8 1/2 E

min
SSE 1/2 E Stand

TEMPERATURE RECORD.

Instrument used, *Asidge*

Current number of observation, *1215*

Date, *Aug 15th 1887*

Locality, *Middle Beguents Bay*

Bearings, *Dumpling St W 1/2 N*

Clarke Pt St N W 1/2 W *side of Lett, 1/2 W*

Time of day, *12.44* ; of tide, *Flood*

State of sky, *bc*

Temperature of air, *69.5*

.. surface of water, *70.5*

.. at depth of _____ fathoms,

.. of bottom, *7 f*

Depth, in fathoms, *7 1/2*

Nature of bottom, *black mud*

Direction of ~~surface~~ *Wind* current, *SSW*

Force of ~~surface~~ *Wind* *4*

Direction of ~~bottom~~ *Drift* current, *SE 1/4 mile*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

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

Name and rank of commanding officer, *James A. Smith*

Mate U.S.A.

Name and position of observer,

Yonloughlin

Mate U.S.A.

1216

REMARKS.

Specimens Obtained
Shell found worm + worm tubes

TEMPERATURE RECORD.

Instrument used, *bragn*

Current number of observation, *1216*

Date, *Aug 15th 1887*

Locality, *Middle Fort Bayford Bay*

Bearings, *Dumpling Lt N 1/2 E*

W. In Pt Lt N 1/2 W 1/4 W or less Pt Lt N 1/2 W

Time of day, *12:03 PM*; of tide, *Flood*

State of sky, *bc*

Temperature of air, *69*

" surface of water, *70*

" at depth of _____ fathoms,

" of bottom, *71*

Depth, in fathoms, *7 1/2*

Nature of bottom, *Black mud*

Direction of ~~surface current~~ *Wind SSW*

Force of ~~surface current~~ *Wind 4*

Direction of ~~bottom current~~ *drift S E 1/4*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

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

Name and rank of commanding officer, *James H. Smith
Mate U.S. F.C.*

Name and position of observer,

*J. Melvin
Mate U.S. F.C.*

1217.

REMARKS.

Specimens Obtained
Same as 1216

TEMPERATURE RECORD.

Instrument used, *Dredge*

Current number of observation, *1217*

Date, *Aug 15th 1887*

Locality, *Midvale point Buzzards Bay*

Bearings, *Dredging Lt N 1/2 E*

Color of Lt N 1/2 W 1/2 W Lt N 1/2 W Lt N 1/2 W Lt N 1/2 W

Time of day, *12, 20* ; of tide, *Low*

State of sky,

Temperature of air, *69*

" surface of water, *70*

" at depth of _____ fathoms,

" of bottom, *71*

Depth, in fathoms, *7 1/2*

Nature of bottom, *Black mud*

Direction of ~~surface~~ *Wind* *SW*

Force of ~~surface~~ *Wind* *4*

Direction of ~~bottom~~ *Drift* *SE 1/4*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

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

Name and rank of commanding officer, *Jesse A. Smith
Mate U.S.A.*

Name and position of observer, *J. M. Nicholson
Mate U.S.A.*

1218

REMARKS.

Specimens Obtained
June 12 1896

1219

REMARKS.

Specimens Obtained

Same ^{as} 1216

TEMPERATURE RECORD.

+

Instrument used, *Wedge*

Current number of observation, *1219*

Date, *Aug 15th 1887*

Locality, *2 1/2 miles from Buzzards Bay*

Bearings, *Dumping St - N 7/8 W*

Clarke Pt. S 1/2 W 7/8 W Oriskany Pt. S 1/2 W 3/4 W

Time of day, *1.18 P.M.*; of tide, *Low*

State of sky, *cloudy*

Temperature of air, *69.5*

" surface of water, *70*

" at depth of _____ fathoms,

" of bottom, *71*

Depth, in fathoms, *8*

Nature of bottom, *Black mud*

Direction of ~~Wind~~ *Wind* *S W*

Force of ~~Wind~~ *Wind* *4*

Direction of ~~Drift~~ *Drift* *S E 1/4 mile*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

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

Name and rank of commanding officer, *Jesse A. Smith
Master U.S.A.*

Name and position of observer,

*J. M. Loughton
Master U.S.A.*

1220
REMARKS.

Specimens Obtained

Same as 1216

TEMPERATURE RECORD.

Instrument used, *oxygen*
Current number of observation, *1220*
Date, *Aug 18th 1887*
Locality, *Bay*
Bearings, *Dumpling Pt N X E*
Clarke Pt N X W 1/4 W *Isle Pt N X W 3/4 W*
Time of day, *1:22 P.M.*; of tide, *Flood*
State of sky, *cloudy*
Temperature of air, *69.5*
" surface of water, *70*
" at depth of _____ fathoms,
" of bottom, *72*
Depth, in fathoms, *8 1/2*
Nature of bottom, *Black mud*
Direction of ~~surface current~~, *Wind S W*
Force of ~~surface current~~, *Wind N*
Direction of ~~swift~~, *SE 1/4*
Force of bottom current,
Name of vessel, *U.S.S. Fish Hawk*
To what service attached, *U.S.F.C.*
Name and rank of commanding officer, *James A. Smith*
Comdr U.S.N.
Name and position of observer,
J. M. Smith
Master U.S.N.

1221
REMARKS.

Specimens Obtained
Same as 1216

1222

REMARKS.

Specimens Obtained
Sponges Sea Urchins Worms
Crab Star Fish

TEMPERATURE RECORD.

Instrument used, *Bridges*
Current number of observation, *1222*
Date, *Aug 27th 1887*
Locality, *Vineyard Sound*
Bearings, *Lapeau Cove N 3/8 S N Chop SE 1/2 S*
Notaka St N X N 1/2 W
Time of day, *10.08 AM* of tide, *ebb*
State of sky, *bc*
Temperature of air, *67*
" surface of water, *68*
" at depth of ~~*10*~~ fathoms,
" of bottom, *69*
Depth, in fathoms, *12 1/2*
Nature of bottom, ~~*fine sand*~~ *shell*
Direction of ~~*surface current*~~ *W SW*
Force of ~~*surface current*~~, *2*
Direction of ~~*bottom current*~~ *West 3/4*
Force of bottom current,
Name of vessel, *U.S. Fish Hawk*
To what service attached, *U.S.F.C.*
Name and rank of commanding officer, *Jacob Smith*
Master U.S.N.
Name and position of observer,
Jacob Smith
Master U.S.N.

1223

REMARKS.

Specimens Obtained

Starfish Sea Urchins Shells

Sponge Worms

TEMPERATURE RECORD.

Instrument used, *Stange*

Current number of observation, *1223*

Date, *Aug 27th 1897*

Locality, *Vineyard Sound*

Bearings, *Wet top 35 1/4 E*

Torpedine Cord N 1/2 S Arctican N 20 x 4 7/8 N

Time of day, *10:20 am* of tide, *Ebb*

State of sky, *bc*

Temperature of air, *67*

“ surface of water, *68*

“ at depth of _____ fathoms,

“ of bottom, *68*

Depth, in fathoms, *125*

Nature of bottom, *Shell + sand*

Direction of ~~surface current~~ *wind* *N SW*

Force of ~~surface current~~ *wind* *2*

Direction of ~~bottom current~~ *drift* *West 3/4*

Force of bottom current,

Name of vessel, *U S Fish Hawk*

To what service attached, *U S F C*

Name and rank of commanding officer, *Jesse Smith*
Master U S F C

Name and position of observer,

J. M. Loughlin
Master U S F C

1224

REMARKS.

Specimen Obtained

~~from fish in tank~~

Same as 1223

TEMPERATURE RECORD.

Instrument used, *snaph*

Current number of observation, *1224*

Date, *Aug 27th 1887*

Locality, *Vineyard Sound*

Bearings, *Leopold's Cove N 3/4 S*

West Chop 88 x E 3/4 E Stakes N 1/4 E

Time of day, *10.36 am* : of tide, *Ebb*

State of sky, *bc*

Temperature of air, *67*

" surface of water, *68*

" at depth of _____ fathoms,

" of bottom, *68*

Depth, in fathoms, *11 1/2*

Nature of bottom, *Sand & shells*

Direction of surface current, *Wind N S W*

Force of surface current, *Wind 2*

Direction of bottom current, *Drift West 1/2*

Force of bottom current,

Name of vessel, *U S Fish Hawk*

To what service attached, *U S F C*

Name and rank of commanding officer, *Jessie Smith
Master USN*

Name and position of observer, *John L. Lighton
Master USN*

1225

REMARKS.

Specimens Obtained
same as 1223

TEMPERATURE RECORD.

Instrument used, *bridge*

Current number of observation, *1225*

Date, *Aug 27th 1887*

Locality, *Vineyard Sound*

Bearings, *Tarpaulin Cove N 1/4 S*

Ardena N 8 1/2 E 1/2 S 1/4 E *North Cove S E X E 1/4 E*

Time of day, *10.55* am of tide, *Ebb*

State of sky, *bc*

Temperature of air, *67*

" surface of water, *68*

" at depth of _____ fathoms,

" of bottom, *68*

Depth, in fathoms, *13*

Nature of bottom, *Sand gravel + shell*

Direction of ~~wind~~ *wind* *N S W*

Force of ~~surface current~~ *wind* *2*

Direction of ~~bottom current~~ *drift* *West* *1/2*

Force of bottom current.

Name of vessel, *U.S.S. Fish Hawk*

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

Name and rank of commanding officer, *Jamieson Smith*

Comdr U.S.N.

Name and position of observer,

J. M. Lighton
Comdr U.S.N.

1226

REMARKS.

Specimens Obtained
Soup Jelly fish + Sea base

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*

Current number of observation; *1226*

Date, *Aug 27th 1897*

Locality, *Vineyard Sound*

Bearings, *North by East 8 1/2 S.*

Arbica N & E Tarpaulin Cove N 1/4 S

Time of day, *11-14 AM*; of tide, *ebb*

State of sky, *bc*

Temperature of air, *67*

" surface of water, *68*

" at depth of _____ fathoms,

" of bottom, *68*

Depth, in fathoms, *13*

Nature of bottom, *Sand & shell*

Direction of ~~surface current~~ *wind* *N & S*

Force of ~~surface current~~ *wind* *3*

Direction of ~~bottom current~~ *drift* *West* *1/4*

Force of bottom current.

Name of vessel, *U.S. Fish Hawk*

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

Name and rank of commanding officer, *James Smith
Master U.S.A.*

Name and position of observer, *Jordan Light
Master U.S.A.*

1227
REMARKS.

Specimens Obtained
Squid boat sponge Starfish

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*

Current number of observation, *1227*

Date, *Aug 27 1887*

Locality, *Vineyard Sound*

Bearings, *Laurelin Cove N 1/8 S*

Atoka Pt 1/4 N West Chop E 1/2 S 1/4 S

Time of day, *11, 32 Am*; of tide, *Ebb*

State of sky, *bc*

Temperature of air, *67*

“ surface of water, *68*

“ at depth of _____ fathoms,

“ of bottom, *68*

Depth, in fathoms, *13*

Nature of bottom, *Sand Shell*

Direction of ~~surface current~~, *Wind N 8 W*

Force of ~~surface current~~, *3*

Direction of ~~bottom current~~, *Wind N 8 W 1/4*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

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

Name and rank of commanding officer, *Jas. H. Smith
Mate U.S. F.*

Name and position of observer, *J. M. H. Brown
Mate U.S. F.*

1228

REMARKS.

Specimens Obtained
Skate, Flounders, Crabs
Starfish, Squid, eggs
Hermit Crabs, Sponges

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*

Current number of observation, *1228*

Date, *Aug 29th 1887*

Locality, *Vineyard Sound*

Bearings, *by head S 87/8 S*

Light house 2000 yds Vineyard S E 50 S 1/2 W

Time of day, *10-42 am*; of tide, *Flood*

State of sky, *bc*

Temperature of air, *65*

“ surface of water, *64*

“ at depth of _____ fathoms,

“ of bottom, *61*

Depth, in fathoms, *18*

Nature of bottom, *Sand*

Direction of *Wind* *NNE*

Force of *Wind* *3*

Direction of *Drift* *West 1/4*

Force of bottom current,

Name of vessel, *U.S.S. Fish Hawk*

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

Name and rank of commanding officer, *James Abbot*
Master

Name and position of observer,

Amelington
Master U.S.F.C.

1229

REMARKS.

Specimens Obtained
Commons Haik Flounders Starfish
Hermit Crabs

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*

Current number of observation, *1229*

Date, *Aug 29 1887*

Locality, *Wineyard Sound*

Bearings, *Wineyard S^t Ship N 1/2 S*

Coastline S^t N W 1/4 N

Time of day, *11.12* hrs of tide, *Flood*

State of sky, *bc*

Temperature of air, *66*

" surface of water, *64*

" at depth of _____ fathoms,

" of bottom, *62*

Depth, in fathoms, *15 1/2*

Nature of bottom, *Sand*

Direction of ~~wind~~ *wind* *N N E*

Force of ~~wind~~ *wind* *3*

Direction of ~~surface current~~ *surface* *West* *1/2*

Force of bottom current.

Name of vessel, *U.S.S. Fish Hawk*

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

Name and rank of commanding officer, *Jessie B. Smith*

Mate U.S.S.

Name and position of observer,

Wilmington
Mate U.S.S.

1230

REMARKS.

Specimens Obtained
Same as 1229

TEMPERATURE RECORD.

Instrument used, *Ream Fathl (11 feet)*

Current number of observation, *1230*

Date, *Aug 29th 1887*

Locality, *Vineyard Sound*

Bearings, *Vineyard Id to N 7/8 N*

City Point Id to N 2/4 W Gay Head S 6 1/2 E

Time of day, *11:47 AM* of tide, *Flood*

State of sky, *bc*

Temperature of air, *65*

“ surface of water, *64*

“ at depth of fathoms,

“ of bottom, *61*

Depth, in fathoms, *14*

Nature of bottom, *1 Land*

Direction of ~~surface current~~ *Wind* *N to E*

Force of ~~surface current~~ *3*

Direction of ~~bottom current~~ *drift* *West* *3/4*

Force of bottom current,

Name of vessel, *U.S.S. Fish Hawk*

To what service attached, *U.S.S. & Co*

Name and rank of commanding officer,

Name and position of observer,

1231
REMARKS.

Specimens Obtained
Sand & small dead shells

TEMPERATURE RECORD.

Instrument used, *Wedge*

Current number of observation, *1231*

Date, *Aug 29th 1887*

Locality, *Vineyard Sound*

Bearings, *Vineyard S⁸⁵W¹⁵ 1/2 N*

Gayhead S⁸⁰W¹⁰ 1/4 E *Adlyhunk N⁴⁵W¹⁵ 1/4 W*

Time of day, *12.15 P.M.*; of tide, *Flot*

State of sky, *bc*

Temperature of air, *65*

“ surface of water, *64*

“ at depth of fathoms,

“ of bottom, *62*

Depth, in fathoms, *16*

Nature of bottom, *1 sand*

Direction of ~~wind~~ *wind* *NNE*

Force of ~~surface current~~ *3*

Direction of ~~surface current~~ *west* *1/2*

Force of bottom current,

Name of vessel, *U.S.S. Fish Hawk*

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

Name and rank of commanding officer, *James Smith*
Master U.S.N.

Name and position of observer,

J. M. Linton
Master U.S.N.

1232

REMARKS.

Specimens Obtained
Sand across Hark
Water Tarfish

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*

Current number of observation, *1232*

Date, *Aug 29 - 1887*

Locality, *Vineyard Sound*

Bearings, *Vineyard Sound St Ship N x E 1/8 N*
Gayhead S E 1/4 E Light House N x E 1/8 N

Time of day, *1 PM* of tide, *Flood*

State of sky, *bc*

Temperature of air, *65*

" surface of water, *64*

" at depth of *10* fathoms, *62 1/4*

" of bottom, *62 1/4*

Depth, in fathoms, *13*

Nature of bottom, *mud & shells*

Direction of ~~surface current~~ *Wind* *N N E*

Force of ~~surface current~~ *Wind* *2*

Direction of ~~bottom current~~ *Drift* *West* *3/4*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

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

Name and rank of commanding officer, *J. Smith*
Master USN

Name and position of observer, *J. M. Crighton*
Master USN

1233

REMARKS.

Specimens Obtained

Sancti Spiritus crabs

dead shell hermit crabs

starfish

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*

Current number of observation, *1233*

Date, *Aug 29th 1887*

Locality, *Vineyard Sound*

Bearings, *Vineyard Pt. Light W 7/8 N*

Cuttyhunk Pt. Light W 1/8 N *Gayhead Pt. Light S 1/8 E*

Time of day, *1.27 P.M.*; of tide, *Flood*

State of sky, *bc*

Temperature of air, *65*

" surface of water, *64*

" at depth of *15 1/2* fathoms, *62*

" of bottom, *62*

Depth, in fathoms, *13 1/2*

Nature of bottom, *sand shale*

Direction of *wind* *NNE*

Force of *wind* *2*

Direction of *drift* *West* *1/2*

Force of bottom current,

Name of vessel, *U.S.S. Hawk*

To what service attached, *U.S.S. Hawk*

Name and rank of commanding officer, *Jamuel Smith*
Master U.S.N.

Name and position of observer, *J. M. Smith*
Master U.S.N.

1234

REMARKS.

Specimens Obtained

TEMPERATURE RECORD.

Instrument used, *Sigsbee*

Current number of observation, *1234*

Date, *Aug 29 1887*

Locality, *Vineyard Sound*

Bearings, *By head S 83 1/4 E*

Vineyard Sound S 45 W 1/2 + Sully bank S 77 W 1/2

Time of day, *1:49 PM*; of tide, *Flood*

State of sky, *bc*

Temperature of air, *65*

" surface of water, *64*

" at depth of *13 1/2* fathoms, *62.5*

" of bottom, *62.5*

Depth, in fathoms, *13 1/2*

Nature of bottom, *1 Sable shell*

Direction of ~~surface~~ *wind* *NNE*

Force of ~~surface~~ *wind* *2*

Direction of ~~bottom~~ *drift* *West*

Force of bottom current,

Name of vessel, *U.S.S. Fish Hawk*

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

Name and rank of commanding officer, *Comdr. Smith*
Master

Name and position of observer, *J. M. Smith*
Master

1335

REMARKS.

Specimens Obtained
Sand dollar starfish
sponges Urals, Florida

TEMPERATURE RECORD.

Instrument used, *Reamer Thermob (11 feet)*

Current number of observation, *1235*

Date, *Aug 29th 1887*

Locality, *Vineyard Sound*

Bearings, *Gay Head S E x S 1/4 S*

Vineyard Pt S 3/4 W 1/2 N Light 1/2 N 1/2 S

Time of day, *2.10 P.M.*; of tide, *Flood*

State of sky, *bc*

Temperature of air, *65*

" surface of water, *64*

" at depth of _____ fathoms,

" of bottom, *62.5*

Depth, in fathoms, *12*

Nature of bottom, *hard shell*

Direction of ~~surface~~ ^{*Wind*} current, *N x E*

Force of ~~surface~~ ^{*Wind*} current, *2*

Direction of ~~bottom~~ ^{*Drift*} current, *West* *1/4*

Force of bottom current,

Name of vessel, *U.S.S. Fish Hawk*

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

Name and rank of commanding officer, *Jamieson Smith
Master*

Name and position of observer, *J. M. Loughlin
Master*

1236
REMARKS.

Specimens Obtained

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, *1236*

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~~ *Wind*

Force of ~~surface current~~ *Wind*

Direction of ~~bottom current~~ *Drift*

Force of bottom current, _____

Name of vessel, *U.S.S. Fish Hawk*

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

Name and rank of commanding officer, *Jessie Smith*

Cmate USN

Name and position of observer, _____

1287

REMARKS.

Specimens Obtained

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 7237

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~~ *Wind*

Force of ~~surface current~~ *Wind*

Direction of ~~bottom current~~ *Drift*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

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

Name and rank of commanding officer, *James H. Smith
Master*

Name and position of observer,

1238

REMARKS.

Specimens Obtained

TEMPERATURE RECORD.

Instrument used,

Current number of observation, *1238*

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 *Wind* ~~surface current~~,

Force of *Wind* ~~surface current~~,

Direction of *Drift* ~~bottom current~~,

Force of bottom current,

Name of vessel, *U.S.S. Fish Hawk*

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

Name and rank of commanding officer, *James H. Smith*
Master U.S.N.

Name and position of observer,

1239

REMARKS.

Specimens Obtained

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, *1239*

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, *1*

Direction of ~~surface~~ current, *Wind*

Force of ~~surface~~ current, *Wind*

Direction of ~~bottom~~ current, *drift*

Force of bottom current, _____

Name of vessel, *U.S.S. Fish Hawk*

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

Name and rank of commanding officer, *Jeaner Horniste*

Matosifu

Name and position of observer, _____

1240

REMARKS.

Specimens Obtained

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 7240

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~~, *Wind*

Force of ~~surface current~~, *Wind*

Direction of ~~bottom current~~, *Drift*

Force of bottom current,

Name of vessel, *U.S.S. Fish Hawk*

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

Name and rank of commanding officer, *James Smith
Master*

Name and position of observer,

REMARKS.

$$\begin{array}{r} 1221 \\ 7241 \\ \hline 20 \end{array}$$

Swift SE

$$\begin{array}{r} 1240 \\ 1220 \\ \hline 19 \end{array}$$

$$\begin{array}{r} 10 \\ 9 \\ \hline 19 \\ 22 \\ \hline 41 \end{array}$$