

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

1721
190

25-

W/2 S

Myra Tomble # 39175

~~1206 Ship's Head 66 x 6~~ 582

1209 Ship's Head 48 x 6 886

Ship's SWYR stand

~~1206~~

$$\begin{array}{r} 1228 \\ 1197 \\ \hline \text{¥} 32 \end{array}$$

$$\begin{array}{r} 1223 \\ 1197 \\ \hline \text{¥} 6 \end{array}$$

1197

Specimens Obtained

Squid flounders crabs

~~Santa~~ Santa 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, *Notaka on S. W. by N 74° N.**E. Chop light $SE \frac{3}{4} S.$* Time of day, *10.50 am*; of tide, *Flood*State of sky, *bc*Temperature of air, *72^o*" surface of water, *72*" at depth of ~~75~~ fathoms," of bottom, *71.5*Depth, in fathoms, *3 $\frac{1}{2}$* Nature of bottom, *Shell sand*Direction of ~~surface~~ *Wind* current, *SSW*Force of ~~surface~~ *Wind* current, *2*Direction of ~~bottom~~ *Wife* current, *East ~~75~~ $\frac{1}{6}$*

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**Walt Ho S A*

Name and position of observer,

*J. M. Conington
Mate U S F C*

1798

REMARKS.

Specimens Taken

Spider Crabs Sea Robbino

Squid Hermit Crabs

Scorp 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, *Wata Light N 1/2 S 2'*
Falmouth N 6 1/2 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, *S 3 W*
 Force of ~~surface~~ ^{*Wind*} current, *2*
 Direction of ~~bottom~~ ^{*Drift*} current, *East 1/4*
 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 Leighton
Comdr U S N

1199

REMARKS.

Specimens Obtained
Sea Robbins Scallops ^{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, *Abbea Light SW x W 1/2 W 1/2*~~*Falmouth S 4 1/2 E*~~ *& Chop light S E 9*Time of day, *11.28 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*Nature of bottom, *Shell sand gravel grass*Direction of surface current, *Wind SSW*Force of surface current, *Wind 2*Direction of bottom current, *drift E 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 A Smith**Master U S F*

Name and position of observer,

J M. Lighton
Master U S F

1200

REMARKS.

Specimens obtained
Sea rabbit Spider crab
Barnacle crab scud
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, *Arbuka light N x S 2'*

Falmouth or E x E 1/4 E Chop light S E x 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 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. Blount
Mate U S N*

1201

REMARKS.

Specimens obtained.
Haik flounders sea hobbins
Lautog summer

1201

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11) feet*

Current number of observation, *1201*

Date, *Aug 9th 1887*

Locality, *Off Falomuntes*

Bearings, *Soboka light S 74° 1/2' W 1 1/2'*

E Whop light S E X 8 3/4 S. ~~to E 1/4~~ 1 3/4'

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, *Sand & 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, *C. L. Fish Hawk*

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

Name and rank of commanding officer, *J. M. ...
Mate U. S. N.*

Name and position of observer,

*J. M. ...
Mate U. S. N.*

1202

REMARKS.

Specimens Obtained:

Hundreds Crabs Lobsters

Sea Robbers Skates E. 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 lead light $1/4$ S*

Center Line to N. by $1/4$ W, Tarpan Light N. W. $3/4$ E.

Time of day, *3:50 Pm*; 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 S E*

Force of surface current, *Wend 3*

Direction of bottom current, *drift - S W $3/4$ W $1/2$ mile*

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. F.*

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

1203

REMARKS.

Specimens Obtained

Lebanon Skate Eggs of April

Flourish. Starfish Sea 1881

1203

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*

Current number of observation, *1200*

Date, *Aug 9th 1887*

Locality, *Menemsha Light*

Bearings, *Center Light Hold to by West Key Head N by S*

Larpaulein 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, *Hard sand*

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

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

Direction of ~~bottom~~ *drift* current, *N N 3/4 W, 1/4 mile*

Force of bottom current,

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

To what service attached, *USFCS*

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

Master USN

Name and position of observer,

Wm. L. Linton

Master USN

1204

REMARKS.

Specimens Obtained
Skulls lobsters Squid Flounders
Clams & Shells

1204

TEMPERATURE RECORD.

Instrument used. *Beam Trawl (1 fath)*

Current number of observation, *1204*

Date. *Aug 9 1887*

Locality. *Memphis, Right*

Bearings. *Bay Head W 3/4 W Larkspur Cove N E 1/4 1/2 S*

Center Quicks 1 mile N X W 1/4 W 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 or 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, *Comdr. U S N*
Matr U S N

Name and position of observer, *J. S. Lighthelm*
Matr U S N

1205

REMARKS.

specimens obtained
Star fish, Rock Eels

1205-

TEMPERATURE RECORD.

Instrument used, *Snodgrass*

Current number of observation, *1205-*

Date, *Aug 11th 1887*

Locality, *East Cape light*

Bearings, *Aboska N W 3/4 W 1/2 E Cape W X N 3/4 S 1/2 E*

E Cape W 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 ^{*Wind*} of surface current, *SSE*

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

Direction ^{*Drift*} of bottom current, *W 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*

Master U.S.N.

Name and position of observer,

Wm. H. H. H.
Master U.S.N.

1206

REMARKS.

~~St~~

Starfish clams spider crabs

TEMPERATURE RECORD.

Instrument used, *thermogr*Current number of observation, *1206*Date, *Aug 11th 1887*Locality, *Off E Long Light - Long Sound*Bearings, *Nobska light - N 10° W $5/2$* *W at Chop N 10° W $1/4$ m E 10° W $5/8$ m*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~~ ^{*wind*} 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, *Jesse A. Smith**Master U.S.N.*

Name and position of observer,

*J. H. ...
Master U.S.N.*

1207

REMARKS.

Same as 1206

TEMPERATURE RECORD.

Instrument used, *dredge*
 Current number of observation, *1207*
 Date, *Aug 11th 1887*
 Locality, *Off East chop Light*
 Bearings, *N 70° 15' W*
W chop 1/2 N 3 E 1/2 N 5/8 N
 Time of day, *11.10* ; 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, *11.5*
 Nature of bottom, *sand + gravel*
 Direction of ~~surface current~~ *Wind SSW*
 Force of ~~surface current~~ *Wind ↓*
 Direction of ~~bottom current~~ *drift E 1/2 N 1/2 mile*
 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 H. Smith*
Master U.S.A.
 Name and position of observer, *James H. Smith*
Master U.S.A.

1208

REMARKS.

Specimens obtained
June 22 1206

TEMPERATURE RECORD.

Instrument used, *Snags*
Current number of observation, *1208*
Date, *Aug 11th 1887*
Locality, *Off East Chop Light*
Bearings, *North 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, *High*
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, *Sand gravel shells*
Direction of ~~surface current~~, *Wind SSW*
Force of ~~surface current~~, *Wind 4*
Direction of ~~bottom current~~, *drift 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*
Mate U S N
Name and position of observer, *J. H. ...*
Mate U S N

1209

REMARKS.

~~Spider~~ Spider crab soup
Hermit-crab sauce

8 1/2 1/2 1/2

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*

Current number of observation, *1209*

Date, *Aug 11th 1887*

Locality, *Whiskey Channel*

Bearings, *SE End Martha Vinard $SN \frac{1}{2} S \frac{1}{2}$*

Cape Pogon $N 75^{\circ} E$; S S S M Cole $SE \frac{3}{4} E$

Time of day, *12.50 Pm*; 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, *~~sl. gy. sand~~ sand*

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

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

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

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 Hornum*
Master U.S.F.

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

1219

REMARKS.

Specimens of Flounders
Sculpin, Crabs & Hermit Crabs
& Sculp

TEMPERATURE RECORD.

Instrument used, *Ream Therm (11 feet)*

Current number of observation, *1260*

Date, *Aug 11th 1887*

Locality, *Muskeget Channel*

Bearings, *S. End Mathias Vigor S 24° X 8 1/4° E*

Muskeget Is. S E 1/2 E Cape Poge S 24° X 2 1/2° E

Time of day, *1.13 P.M.*; of tide, *Flood*

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 1/2 S 1/4 S 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 A. Smith*

Name and position of observer

*J. M. Huntington
Lieut. U.S.N.*

1210

REMARKS.

Specimens Obtained
Horned Scum tube scup +
Small shells

~~orig. Ed. 1887~~ Bin

Hand

TEMPERATURE RECORD.

Instrument used, *drag*

Current number of observation, *1210*

Date, *Aug 15 1887*

Locality, *off West Island Buzzard Bay*

Bearings, *sumppling Light N 1/2 S*

Clarke Pt. S 1/2 W 1/4 N Head Pt. N 1/2 E 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 current~~ *wind* *SSW*

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

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

Force of bottom current,

Name of vessel, *The Fish Hawk*

To what service attached, *USF 76*

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

Name and position of observer,

*Malcolm Smith
Master USN*

1212

REMARKS.

Specimens Obtained
Spiders 4 of which are from
Flourens Ischia

SSEX & Rain drift

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*

Current number of observation, *1212*

Date, *Aug 15 1887*

Locality, *Off West Island, Bermuda Bay*

Bearings, *Dumpling Light N 1/2 E*

Course *Rt St N N W* *Side* *Rt St N x 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 ~~surface current~~ *Wind* *SSW*

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

Direction of ~~bottom current~~ *drift* *to 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*

Mate U.S.F.C.

Name and position of observer,

Sturtevant
Mate U.S.F.C.

1213

REMARKS.

Specimens Obtained
Squid eggs Spider crabs Sculpin
Flounder Conch shell

Drift 888

Rein

TEMPERATURE RECORD.

Instrument used. *Beam Trawl 11 feet*

Current number of observation, *1213*

Date. *Aug 15th 1887*

Locality. *off Cape Cod Sound Buzzards Bay*

Bearings. *Sampling Light West*

Clarke Pt Lt SW x W 1/4 W. Alder Pt Light N 1/2 E

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

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, ~~70.5~~ *shell grass*

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

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

Direction of ~~bottom current~~, *Drift 1/2 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, *James A. Smith*
Mate U.S.F.

Name and position of observer,
Johnston
Mate U.S.F.

1214

REMARKS.

Specimens Obtained
Conchs shell spider crate

TEMPERATURE RECORD.

Instrument used, *Beam Thermometer* 01 feet

Current number of observation, *1214*

Date, *Aug 15th 1887*

Locality, *Off Cape Cod, near Nantucket*

Bearings, *Wilmington St N 7/4 S*

Wilmington St S 7/4 W N 1/4 S 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, *Shells & gravel*

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

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

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

Force of bottom current,

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

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

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

Mate U.S.S.

Name and position of observer,

*J. S. ...
Mate U.S.S.*

1215

REMARKS.

Specimens Obtained
Shells worn

Drift SSE 8 1/2

min
SSE 1/2 E stand

TEMPERATURE RECORD.

Instrument used, *Sledge*

Current number of observation, *1215*

Date, *Aug 15th 1887*

Locality, *Middle Bay of the Bay*

Bearings, *Dumplings St W 1/8 N*

Chalker Pt St N W 1/2 W N side of Lett. N 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~~ current, *Wind SSE*

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

Direction of ~~bottom~~ current, *Drift 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
Master U.S.A.*

Name and position of observer,

*Dumplings St
Master U.S.A.*

1216

REMARKS.

Specimens Obtained

Blue ground worm & worm tubes

TEMPERATURE RECORD.

Instrument used, *Snodgrass*

Current number of observation, *1216*

Date, *Aug 15th 1887*

Locality, *Middle Port Buzzards Bay*

Bearings, *Sampling St N 1/2 W*

Obs. in Pt. St. N 1/2 W 1/4 W or less Pt. St. 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 H*

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

Force of bottom current,

Name of vessel, *Global Fish Hawk*

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

Name and rank of commanding officer, *James A. Smute*
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, *Middle part Buzzards Bay*

Bearings, *Dumping St N 1/2 E*

Cape Pt Lc S W 1/2 W Side Pt Lc S W 1/2 W

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

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 current~~ *Wind* *SW*

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

Direction of ~~bottom current~~ *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, *James Smith*
 Mate U S F

Name and position of observer, *J. M. [unclear]*
 Mate U S F

1218

REMARKS.

Specimens Obtained
Same 1218

TEMPERATURE RECORD.

Instrument used, *Dredge*
 Current number of observation, *1218*
 Date, *Aug 15 1887*
 Locality, *Buzzards Bay*
 Bearings, *Dumpling Lt N 3/4 E*
Chart No 15 N 1/4 W 1/4 N 1/4 W 1/4 N 1/4 W 1/2 W
 Time of day, *12.55* ; of tide, *4/1000*
 State of sky, *Cloudy*
 Temperature of air, *69*
 " surface of water, *70*
 " at depth of fathoms,
 " of bottom, *71*
 Depth, in fathoms, *8*
 Nature of bottom, *Black mud*
 Direction of ~~surface~~ *Wind* *S. W.*
 Force of ~~surface~~ *Wind* *H*
 Direction of ~~bottom~~ *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, *Ames et Smith*
 Master U.S.A.
 Name and position of observer,
 Williamston
 Master U.S.A.

1219

REMARKS.

Specimens Obtained

same ^{as} 1216

TEMPERATURE RECORD.

T

Instrument used. *Wedge*

Current number of observation, *1219*

Date. *Aug 15th 1887*

Locality. *2 miles from Longwood S.C.*

Bearings. *Sampling St NW 1/4*

Clarke Pt. N x W 7/8 W Orde Pt. St. N x W 3/4 W

Time of day, *1.18 P.M.* : of tide, *Flow*

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 ~~surface~~ *Wind* *SW*

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

Direction of ~~bottom~~ *Drift* *EB 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
Master U.S.F.C.*

Name and position of observer,

*Wilmington
Master U.S.F.C.*

12 20
REMARKS.

Specimens Obtained

Same as 12 16

TEMPERATURE RECORD.

Instrument used, *ordeal*
Current number of observation, *1220*
Date, *Aug 18th 1887*
Locality, *Buzzards Bay*
Bearings, *Lumpkin St N X N*
Clarke Pt N X W 1/4 W *Adams Pt N X W 3/4 W*
Time of day, *1:42 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 ~~bottom current~~, *swift* *1/2 E 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*
Capt U S A
Name and position of observer, *J. M. Smith*
Maat U S A

1221
REMARKS.

Specimens
Same as 1216

TEMPERATURE RECORD.

Instrument used, *dredge*
Current number of observation, *1221*
Date, *Aug 15th 1887*
Locality, *Buzzard Bay*
Bearings, *Sampling to N 1/2 N*
Looks N 1/2 W x W 1/2 W Side N 1/2 E N 1/2 W
Time of day, *2, PM* ; 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, *4 1/2*
Nature of bottom, *Black mud*
Direction of ~~surface current~~ *Wind S W*
Force of ~~surface current~~ *+*
Direction of ~~bottom current~~ *drift 1/2 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*
Master U S N
Name and position of observer,

J. M. Lighton
Master U S N

1222

REMARKS.

Specimens obtained
from the sea under the
boat for fish

TEMPERATURE RECORD.

Instrument used, *Bridges*

Current number of observation, *1222*

Date, *Aug 27th 1887*

Locality, *Vineyard Sound*

Bearings, *Larpaulin Cove N 3/8 S N Chop SE 1/2 S*
North 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 ~~*12*~~ fathoms,

“ of bottom, *69*

Depth, in fathoms, *12 1/2*

Nature of bottom, *fine sand shell*

Direction of ~~surface current~~ *wind* *N E W*

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, *James Smith*
Master U S N

Name and position of observer,
James Smith
Master U S N

1223

REMARKS.

Specimens Obtained
Starbuck Sea Anemone Shell
sponge Worms

TEMPERATURE RECORD.

Instrument used, *Stange*

Current number of observation, *1223*

Date, *Aug 27th 1887*

Locality, *Vineyard Sound*

Bearings, *Wet top 38 1/4 E*

Iskandian Coast N 1/2 S Arkh Sea N W x N 1/8 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, *Jessie Smith
Mate U S F C*

Name and position of observer, *J. M. Loughlin
Mate U S F C*

1224

REMARKS.

Specimens obtained

~~from the sea~~

Same as 1223

TEMPERATURE RECORD.

Instrument used, *snipe*

Current number of observation, *1224*

Date, *Aug 27th 1887*

Locality, *Vineyard Sound*

Bearings, *Lantern Cove N 3/8 S*

West Cape 88 X E 3/4 E Nobska N 1/8 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 8 W*

Force of surface current, *Wind 2*

Direction of bottom current, *Wind 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, *James H. Smith
Master U.S.N.*

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

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, *Lupatlin Cove N. 3/4 S*
Bobka N X E 1/4 S West Cape 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, *N S W*

Force of Wind, *2*

Direction of 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, *Jamett Smith*
Comdr U.S.N.

Name and position of observer, *J. M. Lighton*
Comdr U.S.N.

1226

REMARKS.

Specimens obtained
Deep jelly fish + sea anemone

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.*

North by East Impassible 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 SW*

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*
Mate U.S.F.

Name and position of observer,

J. M. Nightingale
Mate U.S.F.

1227

REMARKS.

Specimens obtained
from boat sponge *Spongia*

TEMPERATURE RECORD.

Instrument used. *Beam Trawl (11 feet)*

Current number of observation, *1227*

Date. *Aug 27 1887*

Locality. *Vineyard Sound*

Bearings. *La Pauline Cove N $\frac{1}{8}$ S*

Atoka N $\frac{3}{4}$ W West Cape E $\frac{1}{2}$ S $\frac{1}{2}$ 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 *Wind*, *N $\frac{1}{2}$ W*

Force of *Wind*, *3*

Direction of *Wave*, *West $\frac{1}{4}$*

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, *Jamert Smith*

Mate U.S.A.

Name and position of observer,

Milneighton

Mate U.S.A.

1228

REMARKS.

Specimens obtained
Skate, Grounds, Crabs
Starfish, Squid eggs
Pencil-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° E*

Latitude 42° 00' 00" N Longitude 71° 00' 00" 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 *NE*

Force of Wind *3*

Direction of Drift *West 7/4*

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
Master*

Name and position of observer, *Amberlighton
Mate U.S.F.C.*

1229

REMARKS.

Specimens Obtained
Common Rock Flounders Starfish
Hermit Crabs

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*

Current number of observation, *1229*

Date, *Aug 29 1887*

Locality, *Weymouth Sound*

Bearings, *Weymouth S of Ship N 1/2 S*

cuttyhunk S + W 1/2 N

Time of day, *11.12 AM*; 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 ~~surface current~~ *Wind* *N N E*

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

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.S.*

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

Mate U.S.S.

Name and position of observer,

*William H. ...
Mate U.S.S.*

1230

REMARKS.

Specimens Obtained
Same as 1229

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*

Current number of observation, *1230*

Date, *Aug 29th 1887*

Locality, *Vineyard Sound*

Bearings, *Vineyard Id. S 20° W 1/4 x*

Cuttyhunk Id. N 20° W 3/4 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, *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.F.C.*

Name and rank of commanding officer,

Name and position of observer,

1231
REMARKS.

Specimens Obtained
Caud & small dead shells

TEMPERATURE RECORD.

Instrument used, *Dredge*

Current number of observation, *1231*

Date, *Aug 29th 1887*

Locality, *Vineyard Sound*

Bearings, *Vineyard S⁸⁵W x N¹/₂ N*

Gayhead S⁶⁰W x E *Autybank N x W³/₄ W*

Time of day, *12.15 P.M.*: of tide, *Flood*

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, *Sand*

Direction of ~~surface~~ *wind* *N x E*

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

Direction of ~~bottom~~ *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, *Jesse Smith*
Master U.S.N.

Name and position of observer,

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

1232

REMARKS.

[Faint handwritten notes, possibly including the word "Remarks" and other illegible text.]

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*

Current number of observation, *1232*

Date, *Aug 29th 1887*

Locality, *Vineyard Sound*

Bearings, *Vineyard Sound St. Ship N x E 1/8 N*
Gayhead SE 1/4 E Lighthouse 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 1/2*

“ of bottom, *62 1/2*

Depth, in fathoms, *13*

Nature of bottom, *Mad & 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.S. Fish Hawk*

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

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

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

1233

REMARKS.

Specimens Obtained
Sand dollar crabs
dead shell hermit crab
starfish

TEMPERATURE RECORD.

Instrument used, *Beam Trawl (11 feet)*

Current number of observation, *1233*

Date, *Aug 29th 1887*

Locality, *Vineyard Sound*

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

Cuttyhunk Pt. S 18 N Gayhead S E 1/8 S

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 shell*

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

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

Direction of ~~bottom current~~ *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 D. Smith
Master U.S.N.*

Name and position of observer, *Wilmington H.
Master U.S.N.*

1234

REMARKS.

Specimens Obtained

TEMPERATURE RECORD.

Instrument used, *Sledge*

Current number of observation, *1234*

Date, *Aug 29 1887*

Locality, *Vineyard Sound*

Bearings, *Gayhead S E 3/4 E*

Vineyard Sound S 21 5/8 E Leutly Point S 77 1/2 W

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, *Sand shell*

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

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

Direction of ~~drift~~ *drift* *West* *74*

Force of bottom current,

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

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

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

Name and position of observer, *John ...*

1235

REMARKS.

Specimens obtained
from bottom of
sponge beds, Florida

TEMPERATURE RECORD.

Instrument used, *Beaman Thermometer (11 feet)*

Current number of observation, *1235*

Date, *Aug 29th 1887*

Locality, *Vineyard Sound*

Bearings, *Gay Head S E x S 1/2 E*

Vineyard L. E. W. 1/2 N. x S. 1/2 E. 1/2 N. x S. 1/2 E.

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, *sand shell*

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

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

Direction of ~~bottom~~ *swife* current, *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, *Jamieson Smith
Master U.S.N.*

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

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. Fish Hawk*

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

Name and rank of commanding officer, *Jas. H. Smith*
Capt. U.S.N.

Name and position of observer,

1287

REMARKS.

Specimens Obtained

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 1237

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. 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.

See account book

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 ~~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 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. Fish Hawk*

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

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

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.

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

Drift S E

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

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