1888

From 1286 to 1335

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1286 to 1335

1286

Specimens Obtained

Skates Flat fish. Sea Robbins
Lemons Star fish. Hermit crabs

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1286

Date, Sept 6" 89

Locality, Menemsha Bright Vineyard Sound

Bearings, Gayhead W 1/8 S Quick Hole N N W
Tarpaulin Cove N N E 1/4 E

Time of day, 11.22 am ; of tide, West

State of sky, bc

Temperature of air, 63

" surface of water, 63

" at depth of fathoms,

" of bottom, 63

Depth, in fathoms, 9

Nature of bottom, , Sand

Direction of ~~surface current~~ wind, North

Force of ~~surface current,~~ wind 4

Direction of ~~bottom current~~ drift, S x E 1/2 E mag 1/8

Force of bottom current,

Name of vessel, U S Str 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 Loughlin
Mate U S N

1287

REMARKS.

Specimens Obtained
Lobsters Flat fish, Skates.
Sea Robbins Star fish, Hermit Crabs

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1287

Date, Sept 6th 88

Locality, Menemsha Bight Vineyard Sound

Bearings, Gay head W 1/4 S Quid Hole N X W 7/8 W
Tarpaulin Cove N X E 3/4 E

Time of day, 11.37 Am; of tide, West

State of sky, Vc

Temperature of air, 62

" surface of water, 65

" at depth of fathoms,

" of bottom, 63

Depth, in fathoms, 8. 1/4

Nature of bottom, Sand

Direction of ~~surface current~~ wind, N

Force of ~~surface current~~ wind, 4

Direction of ~~bottom current~~ drift, S E X E 1/2 E Mag 1/8

Force of bottom current,

Name of vessel, U S Str 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 Leighton
Mate U S N

1288

REMARKS.

Specimens Obtained
Skate flat fish sea Robbins
Conchs star fish, Ivory scup
Sand crabs

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1288

Date, Sept 6 88

Locality, Menemsha Bight Vineyard Sound

Bearings, Gay head W & S Quicks Hole N N W
Tarpaulin Cove N E 3/4 E

Time of day, 11.53 am; of tide, West

State of sky, bc

Temperature of air, 62

" surface of water, 65

" at depth of fathoms,

" of bottom, 63

Depth, in fathoms, 8

Nature of bottom, Sand

Direction of ~~surface current~~ wind, North

Force of ~~surface current~~ wind, 4

Direction of ~~bottom current~~ drift, N N W

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Ufn.

Name and position of observer, J M Leighton
Mate Ufn

1289

REMARKS.

Specimens Obtained
Winkles / Star fish. Razor fish shells
Scallop shell. Winkle spawn
~~Clam shell~~ Stones. Conch, Quahog
shells, King Crabs

TEMPERATURE RECORD.

Instrument used, Oyster Dredge

Current number of observation, 1289 21

Date, Sept 13

Locality, Narragansett Bay

Bearings, Conimicut Lt Ho N N E 1/8 E

Warwick Lt Sw 1/2 S Allen Rock Beacon E 1/2 N

Time of day, 9.55 Am, of tide, Flood 1 2 1/2

State of sky, Vc

Temperature of air, 65

" surface of water, 65

" at depth of fathoms,

" of bottom, 66

Depth, in fathoms, 2.5

Nature of bottom, Gray Sand

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

Force of ~~surface current~~ wind, 2

Direction of ~~bottom current~~ drift,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James J Smith
Mate Upr

Name and position of observer,
J M Lenighton
Mate U S N

1290

REMARKS.

Specimens Obtained
are Dredging Stones

TEMPERATURE RECORD.

Instrument used, Oyster Dredge

Current number of observation, 1290 22

Date, ~~Narragansett Bay~~ Sept 13

Locality, Narragansett Bay

Bearings, Conimicut Lt Ho N X E 1/4 E

Warwick Lt S W 1/2 W Allens Rock beacon E X N 1/4 N

Time of day, 10.10 am ; of tide, Flood 1/2

State of sky, vc

Temperature of air, 70

" surface of water, 66

" at depth of fathoms,

" of bottom, 67

Depth, in fathoms, 3

Nature of bottom, Mud

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

Force of ~~surface current,~~ wind 2

Direction of bottom current,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Ufn

Name and position of observer,
J M Lenighton
Mate Ufn

1291

REMARKS.

Specimens Obtained
Nothing

TEMPERATURE RECORD.

Instrument used, Oyster Dredge

Current number of observation, 1291

Date, Sept 13" 88 23

Locality, Narragansett Bay

Bearings, Conimicut St HO N X E 1/4 E

Warwick St S W X W 1/2 W Allens Rock Beacon E N E

Time of day, 10.35 ; of tide, Half Flood

State of sky, Vc

Temperature of air, 70

" surface of water, 66.5

" at depth of fathoms,

" of bottom, 66

Depth, in fathoms, 4

Nature of bottom, Mud

Direction of ~~surface current~~ wind, Calm

Force of ~~surface current~~ wind, ——

Direction of bottom current,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate U Gon

Name and position of observer,
J M Leighton
Mate U Gon

1292

REMARKS.

Specimens Obtained
Nothing

TEMPERATURE RECORD.

Instrument used, Oyster Dredge

Current number of observation, 1292 24

Date, Sept 13" 88

Locality, Narragansett Bay

Bearings, Conimicut Lt Ho N X E 1/4 E

Warwick Lt N X S 1/4 S. Allens Rock Beacon N E X E 1/2 E

Time of day, 10.55 ; of tide, Half Flood

State of sky, Vc

Temperature of air, 72

" surface of water, 67.5

" at depth of fathoms,

" of bottom, 66

Depth, in fathoms, 6.5

Nature of bottom, Mud

Direction of ~~surface current~~ wind, Calm

Force of ~~surface current~~ wind, ——

Direction of bottom current,

Force of bottom current,

Name of vessel, U S Str 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 Lenighton
Mate U S N

HEWVARD

1293

REMARKS.

Specimens Obtained
Nothing

TEMPERATURE RECORD.

Instrument used, Oyster Dredge

Current number of observation, 1293 25

Date, Sept 15 88

Locality, Narragansett Bay

Bearings, Conimicut St Ho North
Warwick St W 7/8 N, Allens Rock Beacon N E

Time of day, 11.10 am; of tide, 3 d Flood

State of sky, Va

Temperature of air, 72

" surface of water, 67

" at depth of fathoms,

" of bottom, 67

Depth, in fathoms, 4

Nature of bottom, Mud

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

Force of ~~surface current~~ wind 2

Direction of bottom current,

Force of bottom current,

Name of vessel, U S Str 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 Leighton
Mate U S N

REMARKS

REMARKS.

Specimens Obtained
Flat Fish Spider Crabs
Oyster & scallop shells. Young
& cup dead Winkles. Hermit
Crab, & Clam shells

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1294

Date, Sept 13" 88

Locality, Narragansett Bay

Bearings, Conimicut St Ho N 1/4 W

Warwick Lt N 1/4 S. Allens Rock Beacon N E 1/2 E

Time of day, 11.33 Am, of tide, 3 2d Flood

State of sky, VC

Temperature of air, 72

" surface of water, 67

" at depth of fathoms,

" of bottom, 66

Depth, in fathoms, 4

Nature of bottom, Mud

Direction of ~~surface current,~~ wind W N W

Force of ~~surface current,~~ wind 2

Direction of bottom current,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith Mate Usn

Name and position of observer, J M Leighton Mate Usn

1295

REMARKS.

Specimens Obtained
Conchs, Squilla Flat fish
1 Starfish Skider Crabs, Hermit
Crabs. Dead Clam shells
Skate Eggs.

TEMPERATURE RECORD.

Instrument used, Beam Trawl 27

Current number of observation, 1295

Date, Sept 13" 88

Locality, Narragansett Bay

Bearings, Conimicut St Ho N 1/4 W
Warwick St W x S 1/4 S. Allens Rock Beacon N E x E

Time of day, 11.52 am ; of tide, 3' 2" Flood

State of sky, Vc

Temperature of air, 71

" surface of water, 67

" at depth of fathoms,

" of bottom, 66

Depth, in fathoms, 3.5

Nature of bottom, Mud

Direction of ~~surface current~~ wind, W N W

Force of ~~surface current~~ wind, 2

Direction of bottom current,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate U Sn

Name and position of observer, J M Leighton
Mate U Sn

1296

REMARKS.

Specimens Obtained
King Crab / Sten fish. Spider
Crabs. Scallops Flat fish
Hermit crabs. Kelp. Young cusk

TEMPERATURE RECORD.

Instrument used, Beam Nard 28

Current number of observation, 1296

Date, Sept 13th 88

Locality, Narragansett Bay

Bearings, Conimicut St Ho N 1/4 W

Warwick SW x W 3/4 W. Allens Rock beacon NE x E 3/4 E

Time of day, 12.03 Pm; of tide, 3h 2m Flood

State of sky, Ba

Temperature of air, 72

" surface of water, 67.5

" at depth of fathoms,

" of bottom, 66

Depth, in fathoms, 3.2

Nature of bottom, Mud

Direction of ~~surface current~~ wind, W N W

Force of ~~surface current~~ wind, 3

Direction of bottom current,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Usn

Name and position of observer,
J M Leighton
Mate Usn

1297

REMARKS.

Specimens obtained
same as 1296
with the exception of no star fish

TEMPERATURE RECORD.

Instrument used, Beam Trawl 29

Current number of observation, 1297

Date, Sept 13" 88

Locality, Narragansett Bay

Bearings, Conimicut St Ho N X W

Warwick St S W X W 1/4 W. Allens Rock Beacon E X N 1/4 N

Time of day, 12.15 Pm ; of tide, High water

State of sky, b c

Temperature of air, 72

" surface of water, 69

" at depth of fathoms,

" of bottom, 66.5

Depth, in fathoms, 4

Nature of bottom, Mud

Direction of ~~surface current~~ wind, W N W

Force of ~~surface current~~ wind, 2

Direction of bottom current,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Usn

Name and position of observer,
J M Leighton
Mate Usn

1298

REMARKS.

Specimens Obtained
Black Mussels & Rhelks
Starfish. Winkles Flatfish

TEMPERATURE RECORD.

Instrument used, Beam Trawl 30

Current number of observation, 1298

Date, Sept 13" 88

Locality, Narragansett Bay

Bearings, Conimicut St Ho N W X N 3/4 N

Warwick Lt S W 1/2 W. Allens Rock beacon E 3/4 N

Time of day, 12.38 Pm ; of tide, High Water

State of sky, Dc

Temperature of air, 72

" surface of water, 68.5

" at depth of fathoms,

" of bottom, 66.5

Depth, in fathoms, 5

Nature of bottom, Mud

Direction of ~~surface current~~ wind, W N W

Force of ~~surface current~~ wind, 3

Direction of bottom current,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Jr

Name and position of observer,
J M Leighton
Mate Jr

REMARKS.

Specimens Obtained
Rock sponge & scallop shells
stones. 3 Star fish. Hand Razor
fish shells. Few drills Crabs

TEMPERATURE RECORD.

Instrument used, Oyster Dredge 31

Current number of observation, 1299

Date, Sept 18" 88

Locality, Narragansett Bay

Bearings, Conimicut Lt Ho N W H W

Warwick S W. Allens Rock Viacon E X S

Time of day, 1. 30 P.M.; of tide, High Water

State of sky, V C

Temperature of air, 69

" surface of water, 67

" at depth of fathoms,

" of bottom, 67

Depth, in fathoms, 5. 2

Nature of bottom, Mud

Direction of ~~surface current~~ wind, W N W

Force of ~~surface current~~ wind, 3

Direction of bottom current,

Force of bottom current,

Name of vessel, U S Str 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 Leighton
Mate U S N

REMARKS.

1800

REMARKS.

Specimens Obtained
Two hogs 4 - 4 some dead skulls

TEMPERATURE RECORD.

Instrument used, Oyster Dredge 32

Current number of observation, 1300

Date, Sept 13" 88

Locality, Narragansett Bay

Bearings, Conimicut Lt Hq W N W

Warwick Lt S W 3/4 W. Allens Rock beacon E 3/4 S

Time of day, 2. 04 ; of tide, 1st 2d Ebb

State of sky,

Temperature of air, 72

" surface of water, 66.5

" at depth of fathoms,

" of bottom, 66

Depth, in fathoms, 3.5

Nature of bottom, Mud

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

Force of ~~surface current~~ Wind, 3

Direction of bottom current,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate U G N

Name and position of observer,
J M Leighton
Mate U G N

REMARKS

1301

REMARKS.

Specimens Obtained
Pipe fish, King Crabs, Flat fish
Spider Crabs, Hermit crabs
Mantis shrimp, Black mussel
Conchs, Scallop shells

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1301

Date, Sept 13th 88

Locality, Narragansett Bay

Bearings, Conimicut Lt Ho N W 1/4 W

Warwick Lt. SW x W 1/2 W. Allens Rock Beacon E x N 1/4 N

Time of day, 2.12 Pm ; of tide, 1st 2d Ebb

State of sky,

Temperature of air, 72

" surface of water, 66

" at depth of fathoms,

" of bottom, 66

Depth, in fathoms, 4

Nature of bottom, Mud

Direction ~~of surface current~~ wind, W N W

Force of ~~surface current~~ wind, 3

Direction of bottom current,

Force of bottom current,

Name of vessel, U S Ltr Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Ufn

Name and position of observer, J M Leighton
Mate Ufn

NEWARKS

1302

REMARKS.

Specimens Obtained
Flat fish Winkles, Dead
Oyster & Scallop shells. Hermit
Crab & lady Crabs

TEMPERATURE RECORD.

34

Instrument used, Beam Trawl

Current number of observation, 1302

Date, Sept 13th 88

Locality, Narragansett Bay

Bearings, Conimicut Pt Ho NNW x N 1/2 N

Warwick Lt W x S 3/4 S. Allens Rock beacon N E x E

Time of day, 2.24 Pm ; of tide, 1st 2d Ebb

State of sky, Vc

Temperature of air, 72

" surface of water, 67

" at depth of fathoms,

" of bottom, 65

Depth, in fathoms, 5.5

Nature of bottom, Mud

Direction of surface current,

Force of surface current,

Direction of ~~bottom current~~ wind, WNW

Force of ~~bottom current~~ wind, 3

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Winiette
Mate Ufn

Name and position of observer, J M Leighton
Mate Ufn

1303

REMARKS.

Specimens Obtained
Oyster & clam shells 1 Starfish
1 Squid

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1303

Date, Sept 13th 88

Locality, Narragansett Bay

Bearings, Conimicut Lt H O N W X N 7/4 N
Warwick Lt W V S 1/2 S Allens Rock beacon N E 1/4 E

Time of day, 2.34 pm ; of tide, 1st 2d Ebb

State of sky, Vc

Temperature of air, 72

" surface of water, 67

" at depth of fathoms,

" of bottom, 65

Depth, in fathoms, 5 1/2

Nature of bottom, Mud

Direction of ~~surface current~~ wind, W N W

Force of ~~surface current~~ wind, 3

Direction of bottom current,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Upn

Name and position of observer, J M Leighton
Mate Upn

1304

REMARKS.

Specimens Obtained
Flat fish Hermit crabs
Spider Crabs. Hermit Oyster
Shells & stones. Star fish 1

TEMPERATURE RECORD.

Instrument used, Beam Trawl 36

Current number of observation, 1304

Date, Sept 13" 88

Locality, Narragansett Bay

Bearings, Conimicut Lt Ho N X W 3/4 W
Warwick Lt W 1/4 S. Allens Rock beacon N E 1/2 N

Time of day, 2.46 PM; of tide, 1st 2d Ebb

State of sky, Bc

Temperature of air, 72

" surface of water, 67

" at depth of fathoms,

" of bottom, 65.5

Depth, in fathoms, 4.5

Nature of bottom, Mud

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

Force of ~~surface current~~, Wind 4

Direction of bottom current,

Force of bottom current,

Name of vessel, E 6 Str Fish Hawk

To what service attached, E 6 S F C

Name and rank of commanding officer, James A Smith
Mate Ufn

Name and position of observer, J M Coughton
Mate Ufn

1305

REMARKS.

Specimens Obtained
Flat fish, Spider Crabs, Conchs
Hake, Pipe fish, Sea Oyster &
Scallops Shells

TEMPERATURE RECORD.

37

Instrument used, Beam Trawl

Current number of observation, 1305

Date, Sept 13 88

Locality, Narragansett Bay

Bearings, Conimicut Lt Hs N x W 1/4 W
Warwick Lt W x N, Allens Rock Vacuum N E x N 1/4 N

Time of day, 2.55 Pm ; of tide, 1" 2" Ebb

State of sky, Vc

Temperature of air, 73.5

" surface of water, 67

" at depth of fathoms,

" of bottom, 66

Depth, in fathoms, 5

Nature of bottom, Mud

Direction ~~of surface current~~ wind, W N W

Force of ~~surface current~~ wind, 3

Direction of bottom current,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Lieut Mfr

Name and position of observer, J M Leighton
Lieut Mfr

1306

REMARKS.

Specimens Obtained
Quahogs & Mussel shells
Crung [illegible]
Hermit Crabs, Hog choker
Dead oyster & scallop shells
Bottom fish

TEMPERATURE RECORD.

Instrument used, Oyster Dredge

Current number of observation, 1306 38

Date, Sept 14 88

Locality, Providence River

Bearings, Conimicut Lt S ~~X~~ E

Bullocks Lt SE x S 3/4 S Nayat Pt E N E

Time of day, 10 05 ; of tide, 1st 2nd Flood

State of sky, NL

Temperature of air, 50

" surface of water, 69

" at depth of fathoms,

" of bottom, 64

Depth, in fathoms, 8

Nature of bottom, Mud

Direction of ~~surface current~~ wind, ~~S~~ N W

Force of ~~surface current~~ wind, 4

Direction of bottom current,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Ufn

Name and position of observer,
J M Creighton
Mate Ufn

1307

REMARKS.

Specimens Obtained
Starfish flat fish Hake oyster
shell Mussel shells Conchs
Zoohogs scallop shell Spider
Crabs, King crabs. Swell fish

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1307 39

Date, Sept 17 88

Locality, Providence River

Bearings, Conimicut Lt SE x S 1/4 S

Bullocks Lt S x E 3/4 E Nayot Pt East

Time of day, 11.59 am; of tide, 1° 2' Flood

State of sky, Oc

Temperature of air, 66

" surface of water, 64

" at depth of fathoms,

" of bottom, 64

Depth, in fathoms, 7 1/2

Nature of bottom, Sandy

Direction of ~~surface current~~ wind, South

Force of ~~surface current~~ wind, 2

Direction of bottom current,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith Mate Ngn

Name and position of observer, J M Lenighton Mate N Gn

1308

REMARKS.

Specimens Obtained
Starfish Young scup Haik Skate
Spider crabs, King crabs Hermit
crabs conchs. Oyster & Claw and
scallop shells

TEMPERATURE RECORD.

Instrument used, Beam Trawl 40

Current number of observation, 1308

Date, Sept 17 88

Locality, Providence River

Bearings, Conimicut Lt S E 3/4 S

Bullocks Lt N X W Nayat Pt E X S

Time of day, 12.06 ; of tide, 1st 2d flood

State of sky, clear

Temperature of air, 52

" surface of water, 64

" at depth of fathoms,

" of bottom, 64.5

Depth, in fathoms, 72

Nature of bottom, Mud broken shells

Direction ~~of surface current~~ wind, South

Force of ~~surface current~~ wind, 2

Direction of ~~bottom current~~ drift,

Force of bottom current,

Name of vessel, U O Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Usn

Name and position of observer,
J M Lenighton
Mate Usn

1309

REMARKS.

Specimens Obtained
same as 1308 except no starfish

TEMPERATURE RECORD.

Instrument used, Beam Trawl

41

Current number of observation, 1309

Date, Sept 17 88

Locality, Providence River

Bearings, Conimicut Lt S E 3/4 S

Bullocks Lt N 1/2 W Nayat Pt E x S 1/2 S

Time of day, 7.49 ; of tide, 1st 2d Ebb

State of sky, Cloudy

Temperature of air, 68

" surface of water, 66

" at depth of fathoms,

" of bottom, 66

Depth, in fathoms, 5

Nature of bottom, Mud

Direction of ~~surface current~~ wind, S

Force of ~~surface current~~ wind, 2

Direction of ~~bottom current~~ drift,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Nfn

Name and position of observer,
J M Leighton
Mate Nfn

1310

REMARKS.

Specimens Obtained
Shells, Crabs, Winkles, flat fish.

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1310 42

Date, Sept 17 88"

Locality, Providence River

Bearings, Conimicut Lt S E & S

Bullocks Lt North. Nayat Pt E S E

Time of day, 7.54 ; of tide, 1st 2nd Ebb

State of sky, Cloudy

Temperature of air, 68

" surface of water, 66

" at depth of fathoms,

" of bottom, 66.5

Depth, in fathoms, 4 1/2

Nature of bottom, Mud

Direction of ~~surface current~~ Wind, S

Force of ~~surface current~~ Wind, 2

Direction of ~~bottom current~~ Drift,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Ufn

Name and position of observer,
J M Lenighton
Mate Ufn

1381

REMARKS.

Specimens Obtained
Spider crabs Flat fish
Jenny cook

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1311 43

Date, Sept 17

Locality, Providence River

Bearings, Conimicut Lt S E 7/8 S

Bullocks Lt N x E 1/4 E Sabins Lt N 1/2 W

Time of day, 7.59 ; of tide, 1st 2d Ebb

State of sky, Cloudy

Temperature of air, 68

" surface of water, 66

" at depth of fathoms,

" of bottom, 66

Depth, in fathoms, 4 1/4

Nature of bottom, mud

Direction of ~~surface current~~ wind, S

Force of ~~surface current~~ wind, 2

Direction of ~~bottom current~~ drift,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Mfr

Name and position of observer, J M Leighton
Mate Mfr

1112

REMARKS.

Specimens Obtained
Spider Crabs Flat fish
Oyster & Scallop shells

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1812 44

Date, Sept 17th 88

Locality, Providence River

Bearings, Conimicut Lt S E X S
Bullocks Lt N E X E 1/4 E Sabins Lt North

Time of day, 8.04 ; of tide, 1st 2nd Ebb

State of sky, cloudy

Temperature of air, 68

" surface of water, 66

" at depth of fathoms,

" of bottom, 66

Depth, in fathoms, 5

Nature of bottom, Mud

Direction of ~~surface current~~ wind, South

Force of ~~surface current~~ wind, 2

Direction of ~~bottom current~~ Drift,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Usn

Name and position of observer,
J M Leighton
Mate Usn

1313

REMARKS.

Specimens Obtained
Winkels Flat Fish Skates
Crabs Oysters & Scallop Shells

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1313 45

Date, Sept 17" 88

Locality, Providence River

Bearings, Conimicut Lt SE x S 1/2 S
Bullocks Lt SE x E 1/4 E Sabins Lt North

Time of day, 8-09 ; of tide, 7 42 Ebb

State of sky, cloudy

Temperature of air, 68.5

" surface of water, 66.5

" at depth of fathoms,

" of bottom, 66

Depth, in fathoms, 6 1/2

Nature of bottom, Mud

Direction of ~~surface current~~ wind, South

Force of ~~surface current,~~ wind 2

Direction of ~~bottom current~~ drift,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Nfn

Name and position of observer,
J Mulenighton
Mate Nfn

1314

REMARKS.

Specimens Obtained
King Crab. Flat fish, Lady crab
Hermit & Spider crabs, Young skate
~~Wen~~ Winkle oyster Quohog & Scallop
shells.

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1314 66

Date, Sept 19 88

Locality, Narragansett Bay

Bearings, Conimicut Lt Hs N X W 3/4 W

Warwick Lt W 1/2 N Allens Rock Beacon N E X N 1/8 N

Time of day, 9.56 ; of tide, 1/2 Ebb

State of sky, Cloudy

Temperature of air, 59

" surface of water, 64

" at depth of fathoms,

" of bottom, 64

Depth, in fathoms, 7 3/4

Nature of bottom, Mud

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

Force of ~~surface current~~ Wind, 3

Direction of ~~bottom current~~ Drift,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Nfn

Name and position of observer,
J Mcknighton
Mate Nfn

1315

REMARKS.

Specimens Obtained
King + Hermit-Crabs. Dead
shells. Clams. Flat fish & callop
1 small star fish.

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1315 67

Date, Sept 19 88

Locality, Narragansett Bay

Bearings, Conimicut Lt Hg N W x N 3/4 N

Warwick Lt W 1/2 S. Allens Rock beacon N E 3/4 N

Time of day, 10.22 ; of tide, Ebb

State of sky, Cloudy

Temperature of air, 58

" surface of water, 64.5

" at depth of fathoms,

" of bottom, 63

Depth, in fathoms, 6

Nature of bottom, Mud

Direction of ~~surface current,~~ wind N N W

Force of ~~surface current,~~ wind 3

Direction of ~~bottom current,~~ drift

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Master

Name and position of observer,
J M Leighton
Master

1316

REMARKS.

Specimens Obtained
Skate Flatfish Hair
Squilla Bourgscup, Squid
King Crabs, Butterfish, Dead
shells. Hermit-crab, Winkel
stones.

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1316 68

Date, Sept 19"

Locality, Narragansett Bay

Bearings, Conimicut Lt Ho N W x N 1/4 N

Warwick Lt W x S 1/4 S. Allens Rock beacon N E 1/4 E

Time of day, 10 50 ; of tide, Ebb 1/2

State of sky, Cloudy

Temperature of air, 61

" surface of water, 65

" at depth of fathoms,

" of bottom, 63

Depth, in fathoms, 5

Nature of bottom, Mud

Direction of ~~surface current~~ wind, N N W

Force of ~~surface current~~ wind, 2

Direction of ~~bottom current~~ drift,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Ufn

Name and position of observer, J M Lenighton
Mate Ufn

1317

REMARKS.

Specimens Obtained
King crabs Spider + Hermit crabs
Flatfish, Kelp, Dead scallop
+ oyster shells.

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1317 69

Date, Sept 19" 88

Locality, Narragansett Bay

Bearings, ~~Cuttinmicut~~ Lt HO N W x N

Warwick Lt W & W. Allens Rock beacon N E x E 1/2 E

Time of day, 11.20 am; of tide, Ebb

State of sky, Cloudy

Temperature of air, 60

" surface of water, 64.5

" at depth of fathoms,

" of bottom, 60

Depth, in fathoms, 6 1/2

Nature of bottom, Sand

Direction of ~~surface current,~~ wind N N W

Force of ~~surface current,~~ wind 2

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 A Smith
Chatt Mfr

Name and position of observer, J M Leighton
Chatt Mfr

1318

REMARKS.

Specimens Obtained

10 Star fish Flat fish. King crabs
Winkel, Hermit Crabs. Spider
Crabs, Hog chokers

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1318 70

Date, Sept 19th 88

Locality, Narragansett Bay

Bearings, Conimicut Lt Ho N W X N

Warwick Lt S W X W 1/4 W Allens Rock beacon E X N

Time of day, 11.35 am ; of tide, Ebb 3½ Qr

State of sky, Cloudy

Temperature of air, 60

" surface of water, 65

" at depth of fathoms,

" of bottom, 63

Depth, in fathoms, 7

Nature of bottom, Mud

Direction of ~~surface current~~ wind, N N W

Force of ~~surface current~~ wind, 2

Direction of ~~bottom current~~ drift,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Mfn

Name and position of observer, J Mulenighton
Mate Mfn

1319

REMARKS.

Specimens Obtained
King crabs flatfish, Jelly fish
Hermit + Spider Crabs, Head
oyster + scallop shells

TEMPERATURE RECORD.

Instrument used, Beam Trawl,

Current number of observation, 1319 71

Date, Sept 19" 88

Locality, Narragansett Bay

Bearings, Conimicut St Ho N W 3/4 N

Warwick St S W 1/4 W. Allens Rock beacon E 1/2 S

Time of day, 11.50 am ; of tide, Ebb 3h 2m

State of sky, cloudy

Temperature of air, 60

" surface of water, 65

" at depth of fathoms,

" of bottom, 63

Depth, in fathoms, 5

Nature of bottom, Mud & shell

Direction of ~~surface current~~ wind, N N W

Force of ~~surface current~~ wind, 2

Direction of ~~bottom current~~ drift,

Force of bottom current,

Name of vessel, U S Stor Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith Chief Mgr

Name and position of observer, J Mclenighton

1320

REMARKS.

Specimens Obtained
Young scup flat fish Skate
4 Star fish, Spider & hermit Crabs
Dead oyster & scallop shells

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1320 72

Date, Sept 19" 88

Locality, Providence River

Bearings, Conimicut Lt W x S 1/4 S

Bullocks Lt N W x N 1/4 N Nyat Pt N N E

Time of day, 1.45 Pm ; of tide, Flood 1" 2 ft

State of sky, Cloudy

Temperature of air, 67

" surface of water, 67.5

" at depth of fathoms,

" of bottom, 65.5

Depth, in fathoms, ~~63~~ 5

Nature of bottom, Mud & Shells

Direction of ~~surface current,~~ wind N N W

Force of ~~surface current,~~ wind 2

Direction of ~~bottom current,~~ Dight East

Force of bottom current, Sand

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Ufn

Name and position of observer, J M Leighton
Mate Ufn

1321

REMARKS.

Specimens Obtained
Flat fish spider crabs
King Crabs shark, Pipe fish
Sculpins, and oyster + scallops
shell.

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1321 73

Date, Sept 19" 88"

Locality, Providence River

Bearings, Conimicut Lt S 5/8 E

Bullock Lt N W X N Nayatt Pt E X S

Time of day, 1.58 Pm ; of tide, Flood 1st 2nd

State of sky, Cloudy

Temperature of air, 67

" surface of water, 65.5

" at depth of fathoms,

" of bottom, 65

Depth, in fathoms, 6 1/4

Nature of bottom, Gravel & shell

Direction of ~~surface current~~ wind, N N W

Force of ~~surface current~~ wind, 2

Direction of ~~bottom current~~ drift,

Force of bottom current,

Name of vessel, U S Str Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Ufn

Name and position of observer,
J M Leighton
Mate Ufn

1822

REMARKS.

Specimens Obtained
Skate Flat fish. Hermit Crabs
Dead oyster Scallops & Mussel Shell

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1322 74

Date, Sept 19th 88

Locality, Providence River

Bearings, Conimicut Lt S 1/4 E

Bullocks Lt SE 3/4 S Nozzat Pt E x S 1/8 S

Time of day, 2.22 PM; of tide, 1st Gr flood

State of sky, Cloudy

Temperature of air, 66

" surface of water, 65.5

" at depth of fathoms,

" of bottom, 64

Depth, in fathoms, 4 3/4

Nature of bottom, Sand & Gravel

Direction of ~~surface current~~ wind, N N W

Force of ~~surface current~~ wind, 2

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James D Smith
Mate Ufn

Name and position of observer,
J M Leighton
Mate Ufn

1323

REMARKS.

Specimens Obtained
Were oyster & scallop shells

TEMPERATURE RECORD.

Instrument used, Oyster Dredge

Current number of observation, 1323 75

Date, Sept 24

Locality, Pow River

Bearings, Conimicut Lt S X W 1/8 W

Bullocks Lt N W. Nayat Pt S E 1/4 E

Time of day, 11.15 am ; of tide, High Water

State of sky, Vc

Temperature of air, 58

" surface of water, 64

" at depth of fathoms,

" of bottom, 62.5

Depth, in fathoms, 2 3/4

Nature of bottom, Hard Sand

Direction of ~~surface current~~ wind, N N E

Force of ~~surface current~~ wind, 3

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Chate Ufm

Name and position of observer, J M Leighton
Chate Ufm

1324

REMARKS.

Specimens Obtained
Dead oyster & scallop shells and
& sponges I.

TEMPERATURE RECORD.

Instrument used, Oyster Dredge

Current number of observation, 1324 76

Date, Sept 24

Locality, Prov River

Bearings, Conimicut Lt S ½ E

Bullocks Lt N W ¼ N Nayat Pt S E ¾ E

Time of day, 1.15 Pm ; of tide, 1° Qr Ebb

State of sky, Pasty Cloudy

Temperature of air, 58

" surface of water, 64.5

" at depth of fathoms,

" of bottom, 63

Depth, in fathoms, 3 3/4

Nature of bottom, Hard

Direction of ~~surface current~~ wind, N N E

Force of ~~surface current~~ wind, —

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Ufm

Name and position of observer, J M Leighton
Mate Ufm

1325

REMARKS.

Specimens Obtained
Dead Oyster & scallop shells
Hermit Crabs & small stones
3 Starfish

TEMPERATURE RECORD.

Instrument used, Oyster Bridge

Current number of observation, 1325 77

Date, Sept 24 88

Locality, Prov River

Bearings, Conimicut Lt S 7/8 E

Bullocks Lt N W 1/8 W Nayat Pt S E 1/4 E

Time of day, 1.35 ; of tide, 1st Qr Ebb

State of sky, b c

Temperature of air, 58

" surface of water, 64.5

" at depth of fathoms,

" of bottom, 63

Depth, in fathoms, 3 1/2

Nature of bottom, Hard

Direction of ~~surface current~~ wind, N N E

Force of ~~surface current~~ wind, 3

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Ufn

Name and position of observer, J Mlenighton
Mate Ufn

1326

REMARKS.

Specimens Obtained

Rock sponge. Dead oyster & scallop shells.

TEMPERATURE RECORD.

Instrument used, Oyster Dredge

Current number of observation, 1326 # 78

Date, Sept 24 88

Locality, Pow River

Bearings, Conimicut Lt S 7/8 E

Bullocks Lt N W 1/2 W Nayat Pt S E

Time of day, 1.54 Pm, of tide, 1 2r Ebbing

State of sky, b c

Temperature of air, 58

" surface of water, 64

" at depth of fathoms,

" of bottom, 63

Depth, in fathoms, 2

Nature of bottom, Hard

Direction ~~of surface current~~ wind, N N E

Force of ~~surface current~~ wind, 3

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Gen

Name and position of observer, J Mulleighton
Mate Gen

1827

REMARKS.

Specimens Obtained
Blades Mussells and dead Shells.
+ 2 star fish.

TEMPERATURE RECORD.

Instrument used, Oyster Dredge

Current number of observation, 1327 79

Date, Sept 24 88

Locality, Prov. River

Bearings, Conimicut Lt S 1/4 E

Bullock Lt N W 3/4 W Nayat Pt S E 1/4 S

Time of day, 2,10 pm ; of tide, 1st Qr Ebb

State of sky, bc

Temperature of air, 58

" surface of water, 64.5

" at depth of fathoms,

" of bottom, 64

Depth, in fathoms, 10 1/2 feet

Nature of bottom, Hard

Direction of ~~surface current~~ wind, N N E

Force of ~~surface current~~ wind, 3

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate U Fr

Name and position of observer, J M Leighton
Mate U Fr

1328

REMARKS.

Specimens Obtained
Dead clam and oyster shells.
3 star fish 2 winkels.

TEMPERATURE RECORD.

Instrument used, Oyster Dredge

Current number of observation, 1328 #80

Date, Sept 24 88

Locality, Prior River

Bearings, Cominicut Lt S 1/8 E

Bullocks Lt N W x W 1/4 W Nayat Pt S E x S

Time of day, 2.20 PM; of tide, 2 hr Ebb

State of sky, Clear

Temperature of air, 58

" surface of water, 64.5

" at depth of fathoms,

" of bottom, 64

Depth, in fathoms, 11 feet

Nature of bottom, Sand

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

Force of ~~surface current~~ wind, 3

Direction of bottom current,

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 Upr

Name and position of observer,
J M Leighton
Mate Upr

1829

REMARKS.

Specimens Obtained
Dead Clam Dead Oyster and
Scallop shells.
2 Starfish

TEMPERATURE RECORD.

Instrument used, Oyster Dredge

Current number of observation, 1329 # 81

Date, Sept 24 88.

Locality, Prov River

Bearings, Conimicut Lt. South

Bullocks Lt. N W Nayat Pt. S E 1/4 E

Time of day, 2.34 ; of tide, 2" Dr Ebb

State of sky, bc

Temperature of air, 58

" surface of water, 64.5

" at depth of fathoms,

" of bottom, 64

Depth, in fathoms, 2 3/4

Nature of bottom, Sand

Direction of ~~surface~~ wind current, N N E

Force of ~~surface current~~ wind, 2

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Nfn

Name and position of observer,
J M Leighton
Mate Nfn

1330

REMARKS.

Specimens Obtained
Dead Clams & dead asst. shells
Seaweed & grass

TEMPERATURE RECORD.

Instrument used, Oyster Dredge

Current number of observation, 1330 #85

Date, ~~Sept 24~~ 88

Locality, Prov River

Bearings, Conimicut Lt S 1/4 W

Bullocks Lt NW & W 1/2 W Nayat Pt SE & S 1/4 S

Time of day, 3.12 R ; of tide, 1/2 Ebb

State of sky, Clear

Temperature of air, 60

" surface of water, 64

" at depth of fathoms,

" of bottom, 64

Depth, in fathoms, 8 1/2 feet

Nature of bottom, Sand

Direction of ~~surface current~~ wind, N N E

Force of ~~surface current~~ wind, 3

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Nfm

Name and position of observer, J Mulenighton
Mate Nfm

1332

REMARKS.

Specimens Obtained

Dead clam + dead oyster shells

Sea mud + grass

TEMPERATURE RECORD.

Instrument used, Oyster Bridge

Current number of observation, 13.3k #86

Date, Sept 24 88

Locality, Prov River

Bearings, Conimicut Lt S 1/2 W

Bullocks Lt N W X W 3/4 W Nayat Pt S E X S 3/4 S

Time of day, 3.24 ; of tide, 1/2 Ebb

State of sky, Clear

Temperature of air, 60

" surface of water, 65

" at depth of fathoms,

" of bottom, 65

Depth, in fathoms, 6 feet

Nature of bottom, Sand

Direction of ~~surface current~~ wind, N N E

Force of surface current, 3

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Ufr

Name and position of observer,
J M Lenighton
Mate Ufr

1333

REMARKS.

Specimens Obtained

Seaweed & grass

TEMPERATURE RECORD.

Instrument used, Oyster Dredge

Current number of observation, 4332 x 87

Date, Sept 24 88

Locality, Prov River

Bearings, Conimicut Lt S x W

Bullocks Lt N W x W 1/2 W Nayat Pt S E x S 1/2 S

Time of day, 3.30 ; of tide, 3 Qr Ebb

State of sky, Sc

Temperature of air, 60

" surface of water, 65

" at depth of fathoms,

" of bottom, 65.5

Depth, in fathoms, 4 feet

Nature of bottom, Sand

Direction of ~~surface current,~~ wind N N E

Force of ~~surface current,~~ wind 4

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate U Gov

Name and position of observer, J Wilmington
Mate U Gov

1834

REMARKS.

Dead Oyster & clam shells. Sea weed & grass.

TEMPERATURE RECORD.

Instrument used, Oyster Dredge #88

Current number of observation, 1333

Date, Sept 24 88

Locality, Pico River

Bearings, Conimicut Lt S X W 1/4 W

Bullocks Lt N W 5/8 W Nayat Pt S E X S

Time of day, 3.35 ; of tide, 3 2 Ebb

State of sky, Clear

Temperature of air, 60

" surface of water, 64.5

" at depth of fathoms,

" of bottom, 64

Depth, in fathoms, 5 feet

Nature of bottom, Sand

Direction of ~~surface current~~ wind, N N E

Force of ~~surface current~~ wind, 3

Direction of ~~bottom current~~ drift,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Ufn

Name and position of observer,
J M Leighton
Mate Ufn

1335

REMARKS.

Dead oyster shells
3 Starfish

TEMPERATURE RECORD.

Instrument used, Oysters Dredge 89

Current number of observation, 1334

Date, Sept 25th 88

Locality, Provo River

Bearings, Cominicut Lt S 7/8 E

Bullocks Lt N W X W Nargat Pt S E 1/4 S

Time of day, 11,30 am ; of tide, 4" Gr flood

State of sky, Cloudy

Temperature of air, 61

" surface of water, 64

" at depth of fathoms,

" of bottom, 65

Depth, in fathoms, 2 3/4

Nature of bottom, Hard

Direction of ~~surface current~~ wind, N E

Force of ~~surface current~~ wind, 2

Direction of ~~bottom current~~ drift,

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer James A Smith
Mate Ufn

Name and position of observer,
J M Leighton
Mate Ufn

1336

REMARKS.

Specimen Obtained
1 star fish & dead oyster shells

TEMPERATURE RECORD.

Instrument used, Oyster Dredge

Current number of observation, 1335 '90

Date, Sept 25 88

Locality, Provo River

Bearings, Conimicut Lt S X E

Bullocks Lt N W X W 1/2 W Nayat Pt SE 1/4 S

Time of day, 11.45 ; of tide, 4 2r flood

State of sky, Cloudy

Temperature of air, 65

" surface of water, 64

" at depth of fathoms,

" of bottom, 64

Depth, in fathoms, 2 3/4

Nature of bottom, Sand

Direction of ~~surface current,~~ wind N E

Force of ~~surface current,~~ wind 2

Direction of ~~bottom current,~~ drift

Force of bottom current,

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer, James A Smith
Mate Sgn

Name and position of observer,
J M Leighton
Mate Sgn

1337

REMARKS.

14 – 2 19" 6, 1/2

15 – 1/4 "

5 1/2

20, 6

44 15

53, 58

91 –

2 Stonfish dead oyster shells

93 dead oyster shells

101

103

104

118

119

Abilene Reef to Brewster Reef 44