ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION RECORDS

Numbers 815 to 858

Gowed Pl – S H n n ε ½ ε

S W x S St. Br. – n n ε ½ ε

5 10 20 30 40 50

Book No 2

1880

53
2

All bearings in this book are Magnetic

J. H. Van Vleck

"Chester Rake" Dredge

TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 815

Date, Aug 18 1880

Locality, Atlantic Ocean –

Bearings, Block Island Lgt – N.W x N – 17 miles

Time of day, 2.15 ; of tide,

State of sky, b c

Temperature of air, 72

" surface of water, 72 (40 007)

" at depth of 5 fathoms, 71 (10 of 56) 20 of 49)

" of bottom, 48 (42060)

Depth, in fathoms, 29

Nature of bottom, Sand

Direction of ~~surface current~~, mins S

Force of ~~surface current~~, " 2

Direction of ~~bottom current~~, Drift S W

~~Force of bottom current~~ Dist, " 1/4 mile.

Name of vessel, Fish Hawk

To what service attached, U F C

Name and rank of commanding officer,

Lt J L Zamm

Name and position of observer,

F. C. Van Vliet M.D.

REMARKS.

Liparis ex Pect. tenuicost.
Merlucius bilinearis jun.

Dredge

TEMPERATURE RECORD.

Instrument used, 73

Current number of observation, 816

Date, Aug - 23rd

Locality, Narragansett Bay -

Bearings, Brentons Reef Lgt. Ship E 3/4 S.
2 3/4 Miles

Time of day, 10.25 ; of tide,

State of sky, Clear

Temperature of air, 71

" surface of water, 69 (40007)

" at depth of fathoms,

" of bottom, 66 (42060)

Depth, in fathoms, 8 1/2

Nature of bottom, Sand

Direction of ~~surface current~~, wind S

Force of ~~surface current~~, " 2

Direction of ~~bottom current~~, Drift ~~W N W~~ S E

Force of ~~bottom current~~, " 1/4 Mile

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

Lt Z L Lamen

Name and position of observer,

F C Van Vliet M.D.

REMARKS.

816-
Amphipods -
Echinarachnius parma -

Dredge

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 817

Date, Aug 23

Locality, Narragansett Bay -

Bearings, Brentons Reef Light Ship E 1/2 N

3 miles -

Time of day, 11 am ; of tide,

State of sky, Clear

Temperature of air, 72

" surface of water, 68 (40007)

" at depth of fathoms,

" of bottom, 63 (42666)

Depth, in fathoms, 10

Nature of bottom, Sand

Direction of ~~surface current~~, Wind S

Force of ~~surface current~~, " 2

Direction of ~~bottom current~~, Drift ~~N W~~ S E

Force of ~~bottom current~~, " 1/4 Mile

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lt Z L Zamm

Name and position of observer,

F C Van Vlick M.D.

REMARKS.

817-
Same character as 816-
Echinarachnius Parma - many.

TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 818

Date, Aug 23rd

Locality, Narragansett Bay

Bearings, Brentons Reef Lgt. Ship E 1/2 N
3 1/4 miles

Time of day, 11.20 ; of tide,

State of sky, clear

Temperature of air, 72

" surface of water, 68 (40007)

" at depth of fathoms,

" of bottom, 65 (42666)

Depth, in fathoms, 9 1/2

Nature of bottom, sand

Direction of ~~surface current~~, Wind S

Force of ~~surface current~~, " 2

Direction of ~~bottom current~~, Drift SE

Force of ~~bottom current~~, " 1/4 Mile

Name of vessel, Fish Hawk

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

Name and rank of commanding officer,

Lt J L Lamm

Name and position of observer,

F C Vauxliet MD

REMARKS.

Transcript

TEMPERATURE RECORD.

Instrument used, N Y

Current number of observation, 819

Date, Aug 23 97

Locality, Narragansett Bay –

Bearings, South End Hope Island S E x E ½ E. ½ Mile

Time of day, 1 P M ; of tide,

State of sky, Clear

Temperature of air, 74

" surface of water, 73 (49m 7)

" at depth of fathoms,

" of bottom, 70 (42m 6)

Depth, in fathoms, 6

Nature of bottom, Mud

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

Force of ~~surface current~~, " 3

Direction of ~~bottom current~~, Drift W S W

Force of ~~bottom current~~, " ¼ Mile

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

Lt Lamson

Name and position of observer,

F C Winslow MD

REMARKS.

The end of the Deep sea Thermometer No 42666 was cracked & and water was found in the tube & also in the other end (bulb) of the instrument - Used it for the rest of the sounding this day for Surface temperature -
Used No 41007 for deep.
819. Stenotomus argyrops
Pseudopleuronectes americanus
Lophopsetta maculata
Prionotus carolinus
Leiostomus rigalis jun.
Engraulis vittatus
Pseudorhombus dentatus.

Transl

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 820

Date, Aug 23rd

Locality, Narragansett Bay

Bearings, South End Dope Is: N N E 1/4 Mile

Time of day, 1.40 P M ; of tide,

State of sky, Clear

Temperature of air, 76

" surface of water, 72 (42666 ~~[illegible]~~)

" at depth of fathoms,

" of bottom, 70 (40007 ~~42666~~)

Depth, in fathoms, 5 1/2

Nature of bottom, Mud

Direction of ~~surface current~~, Wind SSW

Force of ~~surface current~~, " 4

Direction of ~~bottom current~~, Drift W x S

Force of ~~bottom current~~, " 1/4 Mile

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lt Z L Tanner

Name and position of observer,

F C Van Vliet MD

REMARKS.

820. Syngnathus fuscus
Bendo pleuronectes americanus
Onos cymbrius juv.

Travel

TEMPERATURE RECORD.

Instrument used, 23

Current number of observation, 821

Date, Aug 23

Locality, Narragansett Bay

Bearings, South End Hope Island. N x E 1/2 Mile

Time of day, 2.15 PM; of tide,

State of sky, Clear

Temperature of air, 78

" surface of water, 72 (42666 ~~40007~~)

" at depth of fathoms,

" of bottom, 70 (40007 ~~42666~~)

Depth, in fathoms, 5

Nature of bottom, Mud

Direction of ~~surface current~~, wind SSW

Force of ~~surface current~~, " 4

Direction of ~~bottom current~~, Drift SW

Force of ~~bottom current~~, " 1/4 Mile

Name of vessel, Fish Hawk

To what service attached, WSFC

Name and rank of commanding officer,

Lt J L Lannen

Name and position of observer,

F.C. Van Vliet MD

REMARKS.

521 Raia sp. jud. one spec
Bundoshombus Hongus jun.

Travel

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 822

Date, Aug 23

Locality, Narragansett Bay -

Bearings, South End Hope Island NE 1/8 Mile

Time of day, 3 p.m. ; of tide,

State of sky, Clear

Temperature of air, 78

" surface of water, 71 (42666 ~~40007~~)

" at depth of fathoms,

" of bottom, 70 (40007 ~~42666~~)

Depth, in fathoms, 4 1/2

Nature of bottom, Sand

Direction of ~~surface current~~, wind SSW

Force of ~~surface current~~, " 4

Direction of ~~bottom current~~, Drift W

Force of ~~bottom current~~, " 1/4 Mile

Name of vessel, Fish Hawk

To what service attached, WSFC

Name and rank of commanding officer, Lt Z L Tanner

Name and position of observer,

F. C. Vauxpliet MD

REMARKS.

822. Prionotus carolinus
Loplopsetta maculata
Stenotomus argyropes
Cynoscion regalis, jis.
Paralichthys dentatus
Physis tenuis

Dredge

TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 823

Date, Aug 24

Locality, Atlantic Ocean.

Bearings, North Light Block Island. W 1/2 S 1 1/2 miles

Time of day, 12.35 ; of tide,

State of sky, b.c.

Temperature of air, 74

" surface of water, 65 (46400) (~~[illegible]~~)

" at depth of 5 fathoms, 63. (10f-63)

" of bottom, 60 (40007) (~~[illegible]~~)

Depth, in fathoms, 15 1/2

Nature of bottom, Sand

Direction of ~~surface current~~, Wind W

Force of ~~surface current~~, " 3

Direction of ~~bottom current~~, Drift NW.

Force of ~~bottom current~~, " 1/4 mile

Name of vessel, Fish Hawk

To what service attached, WSFC

Name and rank of commanding officer,

Lt Z L Tanner

Name and position of observer,

F C Van Vliet MD

REMARKS.

823
Pecten Genuicostalus
Leptasterias Compta
Veneriacondia boreali
Echinarachnius para
Strong y ~~tocentrotus~~ Drobachiensis
Modiola Modiolus
Cranyon vulgaris

Travel

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 824

Date, Aug 24

Locality, Atlantic Ocean -

Bearings, North Light Block Island - S W 1/4 W 1 Mile -

Time of day, 12.50 ; of tide,

State of sky, Clear -

Temperature of air, 74

" surface of water, 65 (~~40007~~ 46400)

" at depth of 5 fathoms, 63. (10 f 63)

" of bottom, 67 (~~42666~~ 40007)

Depth, in fathoms, 13

Nature of bottom, Sand

Direction of ~~surface current~~, Wind W

Force of ~~surface current~~, " 3

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

Force of ~~bottom current~~, " 1/4 Mile

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lt Z L Lamen

Name and position of observer,

F C Van Vliet MD

824

REMARKS.

Laminaria
Pecten tenuicostatus
Stongy. Drobach
Modiola Modiolus
Cressidnea fornicata
Solego Realii
Leptasterias Compta
Crucibulum striatum
Metridium marginatum

Tautoga onitus
Tautogolabrus adspersus
Raia laevis.
Cottus sp. juv.
Lophopsetta maculata.
Phycis tenuis.
Pseudopleuronectes americanus.
Pseudorhombus dentatus
Raia erinacea
" radiata.
Liparis sp. in Pecten tenuicostatus.
Prionotus carolinus
Pseudorhombus oblongus.

Otter Trawl

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 825

Date, Aug 24

Locality, Atlantic Ocean

Bearings, North Light Block Island. W S W 3/4 W 1 1/4 Miles

Time of day, 1.30 pm ; of tide,

State of sky, Clear

Temperature of air, 73

" surface of water, 67 (46400 ~~40007~~)

" at depth of 5 fathoms, 61

" of bottom, 60 (40007 ~~42666~~)

Depth, in fathoms, 13.

Nature of bottom, Sand

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

Force of ~~surface current~~, " 4

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

Force of ~~bottom current~~, " 1/2 Mile

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lt Z L Zamen

Name and position of observer,

F C Van Vliet MD

825

REMARKS.

Echinarachnius parma
Strongy: Drob:
Pecten Ulmicostatus
Stylifer Stimpsoni
Mactra solidissima
Cancer moratus

825. Raia sp.
Pseudorhombus dentatus.
Lophopsetta maculata.
Pseudopleuronectes americanus.
Prionotus carolinus.

Dredge

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 826

Date, Aug 24

Locality, Atlantic Ocean -

Bearings, North Light Block Island - WNW ½ W 2½ miles.

Time of day, 2.40 ; of tide,

State of sky, clear

Temperature of air, 73

" surface of water, 67 (46400)

" at depth of 5 fathoms, 66

" of bottom, 57 (4 0007)

Depth, in fathoms, 22

Nature of bottom, Sand

Direction of ~~surface current~~, Wind S

Force of ~~surface current~~, Wind 3

Direction of ~~bottom current~~, Drift SSW

~~Force of bottom current~~, Hist. Drift - ¼ mile

Name of vessel, Fish Hawk

To what service attached, U F C

Name and rank of commanding officer,

Lt J L Tanner - U S Navy

Name and position of observer,

F C Vauffliet MD

REMARKS.

Blake ~~Agassiz~~ Travel

TEMPERATURE RECORD.

Instrument used, WZ

Current number of observation, 827

Date, Aug 24

Locality, Atlantic Ocean

Bearings, North Light Block Island W N W 1/2 W 2 1/2 miles

Time of day, 3.05 ; of tide,

State of sky, Clear

Temperature of air, 71

" surface of water, 67 (46400)

" at depth of 5 fathoms, 66

" of bottom, 57 (40007)

Depth, in fathoms, 20 1/2

Nature of bottom, Sand

Direction of ~~surface current~~, Wind S

Force of ~~surface current~~, Wind 3

Direction of ~~bottom current~~, Drift

Dist Drift

~~Force of bottom current~~,

Name of vessel, Fish Hawk

To what service attached, US FC

Name and rank of commanding officer,

Lt Z L Lamen USN

Name and position of observer,

F C Van Vliet MD

REMARKS.

827. Phycis tenuis.
Raia erinacea.

Dredge

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 828

Date, Aug 25

Locality, Atlantic Ocean.

Bearings, North Lgt Blk Island SW x W 3/4 W 2 1/2 Miles –

Time of day, 12.40 ; of tide,

State of sky, stormy –

Temperature of air, 70

" surface of water, 66 (46400)

" at depth of fathoms,

" of bottom, 60 (40007)

Depth, in fathoms, 15

Nature of bottom, sand

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

Force of ~~surface current~~, wind 6

Direction of ~~bottom current~~, Drift E N E.

~~Force of bottom current~~, Drift of Drift. 1/4 mile

Name of vessel, Fish Hawk

To what service attached, Uf F C

Name and rank of commanding officer,

Lt G L Tarman

Name and position of observer,

F C Van Vliet MD

828

REMARKS.

Echinarachnius parma-
streodenna unisemita
Cirolana. Nephthys.
Small sandy aseidian -
few small shells -

Dredge

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 829

Date, Aug 27

Locality, Off Sakonnet River –

Bearings, Cormorant Rock NW x N 1/4 Mile

Time of day, 10.45 ; of tide,

State of sky, Clear

Temperature of air, 63.

" surface of water, 66 (~~46400~~ 42666)

" at depth of fathoms,

" of bottom, 65 (40007)

Depth, in fathoms, 9

Nature of bottom, ~~Rocky~~ - Gravel + stones

Direction of ~~surface current~~, Wind East.

Force of ~~surface current~~, Wind 2

Direction of ~~bottom current~~, Drift. S x E

~~Force of bottom current~~, Dist Drift 1/4 Mile

Name of vessel, Fish Hawk

To what service attached, US F C

Name and rank of commanding officer,

Lt J L Tanner

Name and position of observer,

F C Van Vliet MD

REMARKS.

China sulphurea -
Bryozoa on seaweeds -
Asterias forbesii
Cribrella sanguinolenta -
Ophiopholis aculeata
Cancer -
Chiton marmoreus
Crepidula fornicata
Modiola Modiolus
Balanus -

Dredge

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 830

Date, Aug 27

Locality, Off Sakonnet River.

Bearings, West Island. S E x E ½ E

3/4 mile

Time of day, 11. 15 ; of tide,

State of sky, Clear

Temperature of air, 64

" surface of water, 66 (42666)

" at depth of fathoms,

" of bottom, 65 (40007)

Depth, in fathoms, 10½ (~~40007~~)

Nature of bottom, Sand

Direction of ~~surface current~~, Wind E

Force of ~~surface current~~, Wind 2

Direction of ~~bottom current~~, Drift N E ½ E

Dist of Drift.
~~Force of bottom current~~, 1/4 mile

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lt. L. Lamer USN

Name and position of observer,

F. C. Van Vliet Mr. D.

830

REMARKS.

few annelids
Cancer irroratus
Eupogurus Bernhardus
Asterias forbesii

Dredge

TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 831

Date, Aug 27.

Locality, Sakonnet River.

Bearings, North-End Gould Island

S W 1/4 W 350 yards.

Time of day, 12.30 pm ; of tide,

State of sky, Clear.

Temperature of air, 66

" surface of water, 71 (42666)

" at depth of fathoms,

" of bottom, 71 (40007)

Depth, in fathoms, 6

Nature of bottom, Black Mud

Direction of ~~surface current~~, Wind SE

Force of ~~surface current~~, Wind 1

Direction of ~~bottom current~~, Drift S

~~Force of bottom current~~, Dist. Drift 1/4 Mile

Name of vessel, Fish Hawk

To what service attached, USFC

Name and rank of commanding officer,

Lt J. L. Tanner

Name and position of observer,

F.C. Van Vliet M.D.

REMARKS.

Nucula proxima
Mulinia lateralis
Yoldia limatula

Dredge

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 832

Date, Aug 27

Locality, Sakonnet River

Bearings, N. End Gould Island West.

150 Yards

Time of day, 12.45 ; of tide,

State of sky, clear

Temperature of air, 70

" surface of water, 71 (42666)

" at depth of fathoms,

" of bottom, 71 (40007)

Depth, in fathoms, ~~6~~ 9

Nature of bottom, Blk. Mud -

Direction of ~~surface current~~, Mud S E

Force of ~~surface current~~, Mud 1

Direction of ~~bottom current~~, Drift S

~~Force~~ Drift of ~~bottom current~~, Drift 1/4 Mu -

Name of vessel, Fish Hawk

To what service attached, US F C

Name and rank of commanding officer,

H Z L Zamen

Name and position of observer,

F C. & Van Vliet MDL

REMARKS.

Remarks 831

Chester Rake Dredge

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 833

Date, Aug 27

Locality, Sakonnet River –

Bearings, South End Gould Island – W. 100 yards –

Time of day, 1 pm ; of tide,

State of sky, Clear

Temperature of air, 70

" surface of water, 71 (42666)

" at depth of fathoms,

" of bottom, 71 (40007)

Depth, in fathoms, 6½

Nature of bottom, Sand –

Direction of ~~surface current~~, wind SE

Force of ~~surface current~~, wind 1

Direction of ~~bottom current~~, Drift S

~~Force~~ Dish Drift of ~~bottom current~~, ¼ mile

Name of vessel, Fish Hawk

To what service attached, US FC

Name and rank of commanding officer,

Lt Z L Lamen

Name and position of observer,

Lt C. Vaux lieut MSO

833

REMARKS.

Same in character as last

Chester Rake Dredge -

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 834 -

Date, Aug 27

Locality, Sakonnet River -

Bearings, McCurry's Point W.S.W.
3/4 Mile

Time of day, 1.30 ; of tide,

State of sky, Clear

Temperature of air, 63

" surface of water, 73 (42666)

" at depth of fathoms,

" of bottom, 71 (40007)

Depth, in fathoms, 11

Nature of bottom, Sand, -

Direction of ~~surface current~~, Wind E

Force of ~~surface current~~, Wind 2

Direction of ~~bottom current~~, Drift N x E

~~Force~~ Fish of ~~bottom current~~ Drift, 1/4 Mile

Name of vessel, Fish Hawk

To what service attached, US F C

Name and rank of commanding officer,

Lt J L Lannen

Name and position of observer,

F.C. Van Vliet MD

834

REMARKS.

Nucula proteina
Crepidula formicata
Yoldia limatula
Lycotypus canaliculatus
Liliinia canaliculata
Microcina prolifera
Nephtys.
Cistenides Gouldii
Eupogurus pollicaris
do longicarpus
Cancer
Mulinia lateralis

Chester Rake Dredge

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 835

Date, Aug 27

Locality, Sackonnet River.

Bearings, McCurrys Point N 1/4 E - 1 1/4 Miles

Time of day, 1.50 ; of tide,

State of sky, clear

Temperature of air, 68

" surface of water, 73 (42666)

" at depth of fathoms,

" of bottom, 71 4007

Depth, in fathoms, 3 1/2

Nature of bottom, shells

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

Force of ~~surface current~~, wind 2

Direction of ~~bottom current~~, Drift N

~~Force of bottom current~~, Dist Drift 1/4 Mile

Name of vessel, Fish Hawk

To what service attached, US F C

Name and rank of commanding officer,

Lt Z L Tanner

Name and position of observer,

F.C. Van Vliet M.D.

836

REMARKS.

Crepidula fornicata
Littorina Canaliculata
+ specimens same as 834

Chester Rake Dredge

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 836

Date, Aug 27

Locality, Saponnet River

Bearings, Black Point - W 1/4 N.
1/2 Mile

Time of day, 2.25 ; of tide,

State of sky, Clear

Temperature of air, 66

" surface of water, 71 42666

" at depth of fathoms,

" of bottom, 71 40007

Depth, in fathoms, 5

Nature of bottom, sand -

Direction of ~~surface current~~, wind - SSE

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, drift SSW

~~Force of bottom current~~, dist drift 1/4 mile

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lt Z L Tanner

Name and position of observer,

F. C. Van Vliet M D

836

REMARKS.

Sand Hermit Crabs
Bujula Zunita
Ensatella Americana
Platyonicus ocellatus
Libinia canaliculata.

Trawl

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 837

Date, Aug 27

Locality, Sakonnet River

Bearings, Block Point N W x W 1/2 W. 1/2 Mile

Time of day, 2.45 ; of tide,

State of sky, Clear

Temperature of air, 69

" surface of water, 71 42666

" at depth of fathoms,

" of bottom, 71 41007

Depth, in fathoms, 5

Nature of bottom, sand

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

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, drift S x E

~~Force of bottom current~~, dist drift 1/4 mile

Name of vessel, Fish Hawk

To what service attached, Of F C

Name and rank of commanding officer,

Lt J L Zamer

Name and position of observer,

F C Van Vliet M D

837

REMARKS.

Libinia emarginata
Cancer irroratus
Platyonicus ocellatus
Neocrita duplicata
Fulgur Carica
Pycotypus canaliculus
Poligo Realii
Eupagurus pollicaris
Crepidula plana
Bujula tumida
Asterias forbesii
Tautogolabrus adspersus.
Lophopsetta maculata.
Cynoscion regalis juv. numerous.
Engraulis vittatus.
Poronotus triacanthus abundant.
Pseudopleuronectes americanus. One.
Pseudorhombus dentatus
" oblongus
Prionotus carolinus, juv. abt.
" Evolans " scarce.
Raia erinacea?
Menticirrus nebulosus
Siphonostoma fuscum.

Travel

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 834

Date, Aug 27

Locality, Sakonnet River

Bearings, Woods Castle W x N

1 Mile

Time of day, 3.15 ; of tide,

State of sky, Clear

Temperature of air, 66

" surface of water, 70 (42666)

" at depth of fathoms,

" of bottom, 68 (40007)

Depth, in fathoms, 5 1/2

Nature of bottom, Sand

Direction of ~~surface current~~, Wind SSE

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift S x E

~~Force~~ Dist. Drift of ~~bottom current~~, 1/4 mile

Name of vessel, Fish Hawk

To what service attached, WS FC

Name and rank of commanding officer,

Lt Z L Lanner

Name and position of observer,

Dr F.C Van Vlieh

838

REMARKS.

Large quantities Jelly fish
Cyanea arctica
Dycotypus Canaliculatus
Bujiba tumita
Platyonocus ocellata
Crepidnea plana
Echinarachnius parma
Lilimia canaliculata
Eupagurus pollicaris.

Poronotus triacanthus
Chilic L thys turgidus One.
Poronotus carolinus.
Raia Erinacea.
Pseudorhombus dentatus.
Stenotomus argyrops.
Lophopsetta maculata.

Dredge

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 839

Date, Aug 31st

Locality, Narragansett Bay

Bearings, Dumplings NW ½ N

3 v0 Yards

Time of day, 9.50 ; of tide,

State of sky, h c

Temperature of air, 67

" surface of water, 67 (42666)

" at depth of 5 fathoms, 62. (10f - 65)

" of bottom, 61 (4v07)

Depth, in fathoms, 27½

Nature of bottom, Gravel -

Direction of ~~surface current~~, mod NNE

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, slight SW

Force of ~~bottom current~~, slight 1/4 mile

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lt Z L Tanner

Name and position of observer,

Dr F C Van Vliet

839

REMARKS.

Cancer borealis
" irrorata
Bugula tunita
Bryozoa encrusting stones
Crucibulum striatum
Venericardia borealis
Astesias Forbesii

Dredge

TEMPERATURE RECORD.

Instrument used, N Z.

Current number of observation, 840

Date, Aug 31

Locality, Narragansett Bay

Bearings, Dumplings. N x W ½ W

100 yards

Time of day, 10. 05 ; of tide,

State of sky, b c

Temperature of air, 67

" surface of water, 67 (42666)

" at depth of 5 fathoms, 65 (10 f 65)

" of bottom, 61 4000 7

Depth, in fathoms, 20½

Nature of bottom, Gravel

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

Force of ~~surface current~~, " 2

Direction of ~~bottom current~~, Drift

~~Force of bottom current~~, Fish Drift

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

Lt Z L Lamen

Name and position of observer,

Dr F C Van Vliet

REMARKS.

Romans 839

Dredge

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 841

Date, Aug-31

Locality, Narragansett Bay

Bearings, Rhode Island Lgt. NE x E 3/4 E

7/8 Mile

Time of day, 10. 45 ; of tide,

State of sky, N C

Temperature of air, 68

" surface of water, 67 (42666)

" at depth of 5 fathoms, 67 (10 of 65)

" of bottom, 60 (40007)

Depth, in fathoms, 21

Nature of bottom, Gravel.

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

Force of ~~surface current~~, do 2

~~Direction of bottom current~~, ~~dist~~ Drift- S

~~Force of bottom current~~, dist of drift 1/4 Mile

Name of vessel, Fish Hawk

To what service attached, WSFC

Name and rank of commanding officer,

Lieut Z L. Tanner

Name and position of observer,

Dr F C Van Vliet

841

REMARKS.

Asterias Forbesii
Metridium marginatum

Dredge

TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 842

Date, Aug 31

Locality, Narragansett Bay.

Bearings, Goat Island Light ENE 1/2 E 1/2 Mile

Time of day, 11 am ; of tide,

State of sky, Clear

Temperature of air, 69

" surface of water, 67 (42666)

" at depth of fathoms,

" of bottom, 67 (40007)

Depth, in fathoms, 8

Nature of bottom, Sand

Direction of ~~surface current~~, Wind East

Force of ~~surface current~~, Wind 2

Direction of ~~bottom current~~, Drift

~~Force of bottom current~~, Dist Drift

Name of vessel, Fish Hawk

To what service attached, WSFC

Name and rank of commanding officer,

Lieut B. S. Tanner

Name and position of observer,

Dr F. C. Van Vliet

842

REMARKS.

Trawl

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 843

Date, Aug 31 1880

Locality, Narragansett Bay -

Bearings, N. End Dyer's Island N E ½ E 3/4 mile

Time of day, 12. M ; of tide,

State of sky, Clear

Temperature of air, 69

" surface of water, 69 (42666)

" at depth of 5 fathoms, 67

" of bottom, 63 (40007)

Depth, in fathoms, 14½

Nature of bottom, sand -

Direction of ~~surface current~~, wind East

Force of ~~surface current~~, do 3

Direction of ~~bottom current~~, Drift N

~~Force~~ Dist Drift of ~~bottom current~~, 1/4 Mile

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lieut Z L Tanner

Name and position of observer,

Dr F. C Van Vleck

843

REMARKS.

Asterias Forbesii
Cribrella sanguinolenta
Homarus Americanus
Cancer borealis
Pseudorhomb. dentatus
Pseud. Americanus.
Lophopsetta maculata
Raia sp.
Phycis sp.
Phycis tenuis
Pseudorhombus oblongus
Cynoscion regalis
Stenotomus argyrops.

Transl

TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 844

Date, Aug 31

Locality, Narragansett Bay -

Bearings, N. End Dyers Island SE 1/2 E 1/4 Mile

Time of day, 12.30 ; of tide,

State of sky, Clear

Temperature of air, 70

" surface of water, 69 (42666)

" at depth of 5 fathoms, 67

" of bottom, 63 (40007)

Depth, in fathoms, 11 1/2

Nature of bottom, Sand.

Direction of ~~surface current~~, Wind E

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift W S W

~~Force~~ Dist Drift of ~~bottom current~~, 1/4 Mile

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lieut J. L. Lamen

Name and position of observer,

Dr F. C. Van Vliet

844

REMARKS.

Laminaria. Asterias Forbesii
Cribrella sanguinolenta
Homarus americanus
Libinia. Arbacia punctulata
Many broken shells
Raia r.p. Lophopsetta maculata.
Pseudopleuronectes americanus
Phycis tenuis.
Syngnathus fuscus.
Tautogolabrus Adespersus

Travel

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 845

Date, Aug 31

Locality, Narragansett Bay

Bearings, Prudence Light N 1/2 W

3/4 Mile 7

Time of day, 1 p m ; of tide,

State of sky, Clear

Temperature of air, 70

" surface of water, 69 (42666)

" at depth of 5 fathoms, 67

" of bottom, 64 (40007)

Depth, in fathoms, 14 1/2

Nature of bottom, Gravel

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

Force of ~~surface current~~, do 3

Direction of ~~bottom current~~, Drift

Dist Drift

~~Force~~ of ~~bottom current~~,

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lieut Z L Tanner

Name and position of observer,

Dr F. C. Van Vlick

845

REMARKS.

Trawl caught upon something just after it reached bottom & was hauled up immediately.

Raia sp. (Young)

~~Syngathus fuscus~~

~~Lantogobarbus adespersus~~

Phycis tenuis

Asterias Forbesii

Bugula tenuis

Crepidula fornicata

Chester Rake Dredge

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 846

Date, Aug 31

Locality, Narragansett Bay

Bearings, Prudence Light N x E 3/4 E

1 1/2 Miles -

Time of day, 1.35 ; of tide,

State of sky, clear

Temperature of air, 70

" surface of water, 68 (42666)

" at depth of 5 fathoms, 67

" of bottom, 63 (40007)

Depth, in fathoms, 14 1/2

Nature of bottom, Gravel

Direction of ~~surface current~~, mod NE

Force of ~~surface current~~, mod 3

Direction of ~~bottom current~~, light ENE

~~Force~~ of ~~bottom current~~, light 1/4 mile

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lieut J L Lamson

Name and position of observer,

Asst F C Van Vleck

REMARKS.

Astrias Forbesii
Cribrella sanguinolenta
Cancer (young)
Many shells -

Hawk

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 847

Date, Aug 31

Locality, Narragansett Bay

Bearings, Half Way Rock N 1/4 W

1 mile

Time of day, 2.15 ; of tide,

State of sky, Clear

Temperature of air, 70

" surface of water, 68 (42666)

" at depth of 5 fathoms, 68

" of bottom, 62 (40007)

Depth, in fathoms, 12 1/2

Nature of bottom, Mud

Direction of ~~surface current~~, wind East

Force of ~~surface current~~, do 3

Direction of ~~bottom current~~, Drift N N E

Dist Drift
~~Force~~ of ~~bottom current~~, 1/4 M

Name of vessel, Fish Hawk

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

Name and rank of commanding officer,

Lieut Z L Tanner

Name and position of observer,

Dr Van Vliet

REMARKS.

847

Fastening below gave way just as Trunk was level with ships side and the contents (about 2 tons of mud) was emptied back into the sea.

Transit

TEMPERATURE RECORD.

Instrument used, N 3

Current number of observation, 848

Date, Aug 31

Locality, Narragansett Bay

Bearings, Bishops Rock — East 1/2 Mile

Time of day, 3 ; of tide,

State of sky, clear

Temperature of air, 69

" surface of water, 68 (42666)

" at depth of 5 fathoms, 68. (10 of 67)

" of bottom, 62 (41007)

Depth, in fathoms, 15 1/2

Nature of bottom, Mud.

Direction of ~~surface current~~, Mud SE

Force of ~~surface current~~, do 3

Direction of ~~bottom current~~, Drift N

Force of ~~bottom current~~, Pilot Drift 1/4 M

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

Lieut J L Lamson

Name and position of observer,

Lt. F C Van Vleet

848

REMARKS.

Raia erinacea
Pseudopleuronectes americanus
Lophopsetta maculata
Pseudorhombus oblongus
Stenotomus argyrops
Phycis tenuis
Ognoscion regalis
Tautogolabrus adspersus

Chester Rake Dredge

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 849

Date, Sept 1st

Locality, Narragansett Bay –

Bearings, ~~Hr~~ Fort Dumpling. W N W ½ W

1/4 Mile

Time of day, 9.20 ; of tide, Ebb

State of sky, Clear

Temperature of air, 67

" surface of water, 67 (42666 !

" at depth of 5 fathoms, – 67. (10 f 66)

" of bottom, 63 4007

Depth, in fathoms, 20

Nature of bottom, sand

Direction of ~~surface current~~, Wind Variable

Force of ~~surface current~~, do 1

Direction of ~~bottom current~~, Drift S W

~~Force~~ Dist Drift of ~~bottom current~~, ¼ Mile

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lieut B L Lannen

Name and position of observer,

Dr F C Van Vliet

849

REMARKS.

Hydroids. Asterias vulgaris
Asterias Forbesii.
Empoguerus longicaudus
Cribrella sanguinolenta
Cynethia Cannea.
Empoguerus pallicaris
Caucer borealis
Lantrogolaphus odespersus
Syngnathus fuscus

Chester Lake Dredge

TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 850

Date, Sept 1st

Locality, Narragansett Bay

Bearings, Ft Dumpling. E ½ E 1/2 mile

Time of day, 9.40 ; of tide, Ebb

State of sky, Clear

Temperature of air, 67

" surface of water, 67 (4 2666)

" at depth of 5 fathoms, 67 (10 f 66)

" of bottom, 63 (4 2667)

Depth, in fathoms, 14 1/2

Nature of bottom, Shells.

Direction of ~~surface current~~, Mud East

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Light SSW

Force of ~~bottom current~~, Light Light 1/4 Mile

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lieut J L Lamson

Name and position of observer,

Mr F C Van Vliet

850

REMARKS.

Sand dollars.
Empoquurus longicaupus

Lester Lake Dredge

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 851

Date, Sept 1st

Locality, Narragansett Bay

Bearings, Beaver Tail Light S W ¼ W
1 ¾ miles

Time of day, 10 ; of tide, Ebb

State of sky, Clear

Temperature of air, 66

" surface of water, 67 (42666)

" at depth of 5 fathoms, 66

" of bottom, 66 (40007)

Depth, in fathoms, 12½

Nature of bottom, Sand

Direction of ~~surface current~~, Wind S E

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift S

~~Force~~ Dist of ~~bottom current~~ Drift, ¼ mile

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lt Z L Tanner

Name and position of observer,

Dr F C Van Vliet

857

REMARKS.

Much Laminaria +
gravel
Syngathus fuscus

Transl

TEMPERATURE RECORD.

Instrument used, N Y

Current number of observation, 852

Date, Sept 1st

Locality, Narragansett Bay -

Bearings, Beaver Tail Light S S W 3/4 W
2 1/8 miles

Time of day, 10.35 ; of tide, Ebb

State of sky, clear

Temperature of air, 67

" surface of water, 76 (67?) (42666)

" at depth of fathoms,

" of bottom, 66 (40007)

Depth, in fathoms, 2 1/2

Nature of bottom, sand

Direction of ~~surface current~~, Mud East

Force of ~~surface current~~, do 1

Direction of ~~bottom current~~, Drift S

~~Force~~ Dist of ~~bottom current~~, Drift 1/4 mile

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lieut Z L Tanner

Name and position of observer,

Dr F C Van Vliet

Note -
Mid channel in Mackerel
Cove.

852

REMARKS.

Laminaria
Soligo Realii
Echinarachnius pomma.
Homarus americanus.
Eumpogurus pallicaris
Stenotomus Argyrops
Pseudopleuronectes americanus
Lophopsetta maculata
Raia erinacea
Prionotus Carolinus
Tautogolabrus adspersus
Syngnathus fuscus
Pseudorhombus dentatus

Travel

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 853

Date, Sept 1st

Locality, Narragansett Bay

Bearings, Beaver tail Light - S W x S

2 miles

Time of day, 10.50 ; of tide, Ebb

State of sky, Clear

Temperature of air, 68

" surface of water, 76 (67?) 42666

" at depth of fathoms,

" of bottom, 67 40007

Depth, in fathoms, 4 1/2

Nature of bottom, Sand

Direction of ~~surface current~~, mid E

Force of ~~surface current~~, do 1

Direction of ~~bottom current~~, Drift S

~~Force~~ Dist of ~~bottom current~~ Drift, 1/4 Mile

Name of vessel, Fish Hawk

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

Name and rank of commanding officer,

Lieut Z L Tanner

Name and position of observer,

Dr F C Van Vliet

note - mid channel in Mackerel Cove.

853

REMARKS.

Laminaria
Homarus Americanus
Libinia emarginata
Saligo Realii
Lophopsetta maculata
Pseudorhombus dentatus
Pseudopleuronectes Americanus
Venotomus Argyrops
Cynoscion regalis
Raia
Pirionotus Carolinus
Tautogalabrus adespersus

Trawl

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 854

Date, Sept. 1st

Locality, Narragansett Bay

Bearings, Beaver tail Light S W 1/4 S

1 3/4 Miles

Time of day, 11.10 ; of tide, Ebb

State of sky, Clear

Temperature of air, 69

" surface of water, 67 42666

" at depth of fathoms,

" of bottom, 67 40007

Depth, in fathoms, 6

Nature of bottom, Sand -

Direction of ~~surface current~~, Mid SE

Force of ~~surface current~~, do 1

Direction of ~~bottom current~~, Dist S

Dist ~~Force of bottom current~~, do 1/4 mile

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lieut J L Lannen

Name and position of observer,

Dr F C Van Vliet

note - mid channel in mackerel cove.

854

REMARKS.

Same characteres last
Limulus Polyphemus
Homarus Americanus
Stenotomus Argyrops
Prionotus Carolinus
Pseudorhombus dentatus
Lantigolabrus Odespersus
Pseudopleuronectes Americanus
Lophopsetta maculata
Cynoscion regalis

Travel

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 855

Date, Sept 1st

Locality, Narragansett Bay

Bearings, Beaver tail light SW x S 2 Miles

Time of day, 11. 40 ; of tide, Ebb

State of sky, Clear

Temperature of air, 70

" surface of water, 68 42666

" at depth of fathoms,

" of bottom, 68 40007

Depth, in fathoms, 3 1/2

Nature of bottom, ~~68~~ Sand

Direction of ~~surface current~~, mid E

Force of ~~surface current~~, do 1

Direction of ~~bottom current~~, Drift S

~~Force~~ Dist of ~~bottom current~~, do 1/4 mile

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lieut J L Lamen

Name and position of observer,

Dr F C Van Vliet

855

REMARKS.

Raia erinacea,
Chilichthys turgidus
Stenotomus Argyrops
Pseudopleurosec. American.
Lophopsetta maculata
Syngnathus fuscus
Prionotus Carolinus

Chester Rupe Dredge

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 856

Date, Sept. 1st

Locality, Narragansett Bay

Bearings, Beavertail Light SW ½ W 1 3/8 Miles

Time of day, 12,05 ; of tide,

State of sky, clear

Temperature of air, 69

" surface of water, 68 42666

" at depth of 5 fathoms,

" of bottom, 67 40007

Depth, in fathoms, 11

Nature of bottom, Gravel.

Direction of ~~surface current~~, Wind E

Force of ~~surface current~~, do. 2

Direction of ~~bottom current~~, Drift SSE

Dist. ~~Force~~ of ~~bottom current~~, do 1/4 Mile

Name of vessel, Fish Hawk

To what service attached, WSFC

Name and rank of commanding officer,

Lt Z L Tanner

Name and position of observer,

Dr F C Van Vliet

856

REMARKS.

Cyprina Islandica
Mytilus edulis

Chesler Lake Dredge -

TEMPERATURE RECORD.

Instrument used, N 7

Current number of observation, 857

Date, Sept 1st.

Locality, Narragansett Bay -

Bearings, Beaver tail light - W S W 3/4 W 6/10 Mile

Time of day, 12.35 ; of tide,

State of sky, h. C -

Temperature of air, 69

" surface of water, 63 42666

" at depth of 10 fathoms, 66.5

" of bottom, 66 40007

Depth, in fathoms, 19 -

Nature of bottom, Sand -

Direction of ~~surface current~~, Mud AC

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift AC

West

Force of ~~bottom current~~, do 1/4 Mile

Name of vessel, Fish Hawk

To what service attached, U S F C

Name and rank of commanding officer,

Lieut Z L Tanner

Name and position of observer,

Dr F C Van Vleck

857

REMARKS.

Large quantities Laminaria
+ other sea weeds

Chester Rake Dredge

TEMPERATURE RECORD.

Instrument used, N Z

Current number of observation, 858

Date, Sept 1st

Locality, Narragansett Bay

Bearings, Beaver tail Light N NW 1/4 W 1/3 Mile

Time of day, 1.05 ; of tide, flood

State of sky, Clear

Temperature of air, 69

" surface of water, 63 42666

" at depth of 10 fathoms, 66.5

" of bottom, 66 40007

Depth, in fathoms, 14

Nature of bottom, shelly

Direction of ~~surface current~~, Mud SE

Force of ~~surface current~~, do 2

Direction of ~~bottom current~~, Drift E

~~Force~~ Dist of ~~bottom current~~, do 1/4 Mile

Name of vessel, Fish Hawk

To what service attached, W S F C

Name and rank of commanding officer,

Lt Z L Lanner

Name and position of observer,

Dr F C Van Vliet

REMARKS.