1978 - 6027

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Jul 1898

Numbers 1978 to 6027

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 51 1978

Date, Nov 4 - 98

Time of day, 11.22 a.m. of tide, Commencing ebb.

Locality, In Sekonnet river

Exact position, Buoy no 6. D.D.E.

.50 of mile mag

Depth, 5 1/4 fathoms

Nature of bottom, Rocky, gravelly

Dredging instrument used, 7 feet ham trawl

Direction of drift, N.N.E. ; distance, 1/2 mile

Temperature of air, 61° Fah therm. No., 7399

" of surface water, "

" at depth of fathoms, "

" at bottom, ~~1.022 " 12.2~~

Density at surface, 1.022 temp., 11.8

~~" at depth of fathoms, "~~

" at bottom, 1.022 " 12.2

Number of salinometer, 7104

Barometer reading, 30.47

State of sky, Blue

Direction of wind, D. ; force, 2

Rain, no

Direction of surface current, 0 ; force, 0

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comd. R. G. Davenport U.S.N.

Name and position of observer, J. W. Milligan Pharmacist U.S.N.

NOTES RELATING TO STATION NO. 51

1 Skate Ermacea
2 Winter flounders
1 Window pane "
Microcionia few pieces
1 young sea robin.
Hyroid in fruit plentiful
Cr.
1 Blue crab
small cancer irrorata few
Libinia few
E. pollicaris several
" Longicarpus
Anomea - several
Few pelia mutica
Crapidula fornicata numerous
" plana - common
Bryozoa plentiful
Dead shells of cyclotyrus
Fulgar, Venus, Mytilus.
Argina, neverita, capridula
Anomea, l. heros, littorina, ectoria
Few dead skate eggs
Few tenophore
Lepidonotus. Panopeus
Balanus. Hydrachtinea
Scapharca

Trawl was hauled in from 3 1/2 to 9 1/2 fathoms

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 52 — 1979

Date, Nov 4 - 98

Time of day, 11.50 am; of tide, 1/2 hour of ebb.

Locality, In Sekonnet sound

Exact position, Buoy no 8 300 yards W x N of

Depth, 4 fath

Nature of bottom, Same as before

Dredging instrument used, 7 feet beam trawl

Direction of drift, N.N.E; distance, 5/8 mile

Temperature of air, 61° therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.022 temp., 11.5°

" at depth of fathoms, "

" at bottom, 1.022 " 12°C

Number of salinometer, 7104

Barometer reading, 30.45

State of sky, Blue

Direction of wind, S.; force, 2

Rain, No

Direction of surface current, no perceptible; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport. USNavy

Name and position of observer, J. D. Milligan Pharmacist USNavy

NOTES RELATING TO STATION NO. 52

Practically the same as 51
with addition of 2 large angina
1 egg string of Syotypus
Less hydroid.
2 large 7 in Stars - Forbes -
Crangon
Mulinea
Eusocalpinx.
Sarropeus

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 53 1980

Date, Nov. 4th 1898

Time of day, 2.30 pm; of tide, 3 hours of ebb

Locality, Narragansett Bay

Exact position, Dutch Island Light N.E., X N., .75 of mile

Depth, 7 fathoms

Nature of bottom, Mussel bed

Dredging instrument used, 7 feet beam trawl

Direction of drift, D. 3/4 E.; distance, 5/8 mil

Temperature of air, 56° Fah therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.021+ temp., 13.7°C

~~" at depth of fathoms, "~~

" at bottom, 1.022+ " 13.8°C

Number of salinometer, 7104

Barometer reading, 30.40

State of sky, Blue

Direction of wind, D. W.; force, 3

Rain, No

Direction of surface current, D. X W.; force, 1 Knot

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt Comdr R. G. Davenport, U.S. Navy

Name and position of observer, J. H. Milligan Pharmacist, U.S. Navy

NOTES RELATING TO STATION NO. 53

About 10 bushel of my titus.
large Cancer irrorata. bucketful
Winter flounder few
4 Hake Squirrell
Skates Erinacea. few,
1 Window Jane
1 P. Carolina
1 Arbacia (urchin)
a bushel very large Stars 8 in. Fortune
The usual fauna of the mussel bed
Lepidonotus, Paraperis.
Pinnothera, a few dead shells
Callista convexa, 1 blue crab,
Bucketful cancer irroratus, mostly males
Plais very broad, full & fat
Sycotypus

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 54 — 1981

Date, Nov. 4 — 98

Time of day, 2.50 ; of tide, 3 1/2 hours of ebb

Locality, Narragansett Bay

Exact position, Dutch Field Ck

N x E 3/4 E. 1.487 miles may

Depth, 7 1/4 fathoms.

Nature of bottom, Rocky.

Dredging instrument used, 7 feet beam trawl

Direction of drift, S. 3/4 W. ; distance, 1/2 mile

Temperature of air, 56° Fahr therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.021 + temp., 12,8°

~~" at depth of fathoms, "~~

" at bottom, 1.022 " 13,7°

Number of salinometer, 7104

Barometer reading, 30.40

State of sky, Blue - hazy

Direction of wind, S. W. ; force, 3

Rain, No

Direction of surface current, S x W. ; force, 1 knot

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr.,

R. G. Davenport, U.S. Navy,

Name and position of observer,

J. D. Milligan

Pharmacist. USN.

NOTES RELATING TO STATION NO. 54

1 Sculpin
1 Skate Erroracea
Sexual Squirrel Lake
Few winter flounders.
1 bushel mussels & shells.
Quantity of Kelp.
Lepidonotus.
Capridula plana & fornicata
~~Callista~~
1 Young sea robin
Callista convexa. dead shell
1 blue crab.
1 Dog cancer irroratus.
1 Young " borealis.
1 Idotaea irroratum
10 Large stars 2 to 9 in
1 purple " (?)
1 green sea urchin
Sev. Sygnathiris. Cumae
Young Buccinum
E. Longicarpus
Gammarus donata
Young Lake squirrel
Panopeus
Bryozoa. Obelia
Lamellaria, hydroid on same
nudibranch Sp. (?) Gammarus.
Spirobis, few small pieces ammoniacum.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 55 — 1982

Date, Nov 4 -98

Time of day, 3.15 pm ; of tide, 4 hour of ebb

Locality, Narragansett Bay

Exact position, Beaver Tail light.
D. E x E 1/4 E 7.67 of mile mag

Depth, 9 1/2 fathoms

Nature of bottom, Sandy

Dredging instrument used, 7 feet beam Trawl

Direction of drift, D x W x W ; distance, 3/8 mile

Temperature of air, 55° Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.022 temp., 13.6°

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 14°

Number of salinometer, 7104

Barometer reading, 30.40

State of sky, Blue hazy

Direction of wind, D. W. ; force, 3

Rain, No —

Direction of surface current, D x W. ; force, 1 Knot

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Shark

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr
R. G. Davenport Usnav

Name and position of observer,
J. W. Milligan
Pharmacist. Usnav

NOTES RELATING TO STATION NO. 55

Several hake squirrel
3 skates Limacea – 1 doubtful
a few young cancer borealis
" " clusters of mussels –
a quantity med. size empty sea clams
bored by drills
1 summer flounder
1 winter "
1 young scup.
1 " sea robin
Pelia mutica
E. Bernhardus.
Sycotypus –
Limacea heros.
Lot of Kelp.
1 live sea clam.
Few crangon
Idotea numerous
Gammarus ornatus
1 pipe fish
E. Longicaspus
1 Pandalus
E. Analipes
L. triciriatum
Tritia live & dead
1 nudibranch

No stair fish

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 56 - 1983

Date, Nov. 4th 1898

Time of day, 5.40 pm ; of tide, nearly low water

Locality, Nassaquesett Bay

Exact position, Beaver Tail light N. N. E. 75 miles mag

Depth, 14 3/4 fath

Nature of bottom, Rocky & sandy

Dredging instrument used, 7 feet bar trawl

Direction of drift, S. W. ; distance, 3/4 mile

Temperature of air, 53° therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1022 temp., 13°

" at depth of fathoms, "

" at bottom, 1022 " 13.3°

Number of salinometer, 7104

Barometer reading, 30-40

State of sky, Blue hazy

Direction of wind, S. W. ; force, 3

Rain, no

Direction of surface current, S. W. ; force, 3/4 knot

" of bottom " ; force,

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr

R. H. Davenport, U.S.N.

Name and position of observer, H. Milligan

Pharmacist. U.S.N.

NOTES RELATING TO STATION NO. 56

1 silver hake (?)
Skate — Erinacea.
16 squirrel hake
16 Winter flounders
2-4 spot "
few young sea robin
" " silver hake
" pandalus
Few dead shells, l. incerata calbista
cyprina islandica, tritia, small sea clam.
cycolocardia, anomia.
Cancer borealis 1 large
3 star fish Forbes — 1½ in. 3 in. 6 in.
about 50 maroon stars ½ in. to 3 in.
2 doz purple stars, varying in color from very pale to light red, dark red + purple

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 57 — 1984

Date, Nov 4th 1898

Time of day, 430 pm; of tide,

Locality, Narragansett Bay

Exact position, Castle Hill light.

E 1/2 N. 87 mile mag

Depth, 17 1/2 fathoms

Nature of bottom, Rocky & sand

Dredging instrument used, 7 feet hand trawl

Direction of drift, S.W. x S.; distance, 3/4 mile

Temperature of air, 51° — therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.021 + temp., 12.5° —

" ~~at depth of fathoms,~~ "

" at bottom, 1.023 " 13° —

Number of salinometer, 7104

Barometer reading, 30.38

State of sky, Blue hazy

Direction of wind, S.W.; force, 3

Rain, No

Direction of surface current, 0; force, 0

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt Comdr R. G. Davenport, USNAV

Name and position of observer, J. D. Milligan Pharmacist, USNAV

NOTES RELATING TO STATION NO. 57

3 or skate - (1 winter)
several winter flounder
" squirrel hake
few young silver hake (?)
" pandalus
" labinia
pieces of kelp with obelia hydroid
E pollicaris few in
l heros shells
1 ~~[illegible]~~ cyprina islandica &
a few dead shells
Part of shell of Buccinum undatum
E. longicarpus littoria littorinia
1 - 3 in star - Forbes -
1 - 5 in " purple, light in color
3 maroon stars. 1 - 1½ & 2 in
1 - E. Bernhardus
Longicarpus numerous
shell, pupura lapilis
Astarte undata

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 58 — 1985

Date, Nov. 9th 1898

Time of day, 11.10 am; of tide, 1¼ h of flood

Locality, Mt Hope Bay

Exact position, Bristol Ferry Lt. H.
N. ½ S. 2.25 mag.

Depth, 4¼ fathoms

Nature of bottom, Muddy —

Dredging instrument used, 7 feet beam trawl

Direction of drift, N. x W.; distance, 5/8 mile

Temperature of air, 58° Fahr therm. No., 7397

" ~~of surface water,~~ "

" ~~at depth of~~ fathoms, "

" ~~at bottom,~~ "

Density at surface, 1.019 temp., 11.3°

~~" at depth of fathoms, "~~

" at bottom, 1.022+ " 12.7°

Number of salinometer, Surface 7049 Bottom 7104

Barometer reading, 30 — 28

State of sky, Blue — Cloudy & hazy

Direction of wind, Calm; force, 0

Rain, No —

Direction of surface current, ; force,

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr
R. G. Davenport, USNavy

Name and position of observer,
J. D. Milligan
Pharmacist USNavy

NOTES RELATING TO STATION NO. 58

Syotycus eggs.
Eupadurus longicarpus.
Clidiopera, live & dead.
Euplema, live & dead
Yoldia - live and dead
1 skate - (erinacea,)
Panopeus
Libinia.
2 of Star-fish - Forebesii 2 for to 6 inches
Crangon, few.
Petricola - dead shell.
Mulinea -
Nucula.
Callista Convexa live & dead
Thracia.
L. triceriata
Sycotypus - 1 live.
numerous dead shells.
Tritia.
Claw of squilla.
Hyrastinia
Shell modiola phycatula

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 59 1986

Date, Nov. 9th 1898

Time of day, 11.35 ; of tide, 1½ h of flood

Locality, Mt Hope Bay

Exact position, Bristol Ferry Lt. House S.W.x W. ½ W. 1.75 miles mag

Depth, 4 3/4

Nature of bottom, Muddy with Gravel

Dredging instrument used, 7 feet beam trawl

Direction of drift, W.x S. ½ S. ; distance, ½ mile

Temperature of air, 60° Fah therm. No. 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.019 temp. 11.5

~~" at depth of fathoms, "~~

" at bottom, 1.021 " 12.5

Number of salinometer, Surface 7049 Bottom 7104

Barometer reading, 30.24

State of sky, Blue, Cloudy

Direction of wind, S. W ; force, 1

Rain, no —

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport, USNAV

Name and position of observer, J. D. Milligan Pharmacist, USNAV

NOTES RELATING TO STATION NO. 59

Capridula fornicata, live & dead
Serpula
Membranipera,
oyster shells
Sycotypus - few -
Crangon.
Hydractinea.
Hydroids
Panopeus.
Cleidopera
Argina.
E. Pollicaris.
Mytilus dead shells.
Capridula plana live & dead
Scapharca.
Tritia.
E. Longicarpus
Nerivipa
Litterina littoria
Few Rock eels (?)
Callista Convexa - dead shells
about 100 Star fish Forbesii, size of 5-8
13 Flounders winter
3 Window pane
2 Cancer irrorata.
Nereids

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 60 ——— 1987

Date, Nov. 9th 1890

Time of day, 11.55 ; of tide, 2 h. of flood

Locality, Mt. Hope Bay

Exact position, Bristol Ferry Lt. House W x S. .75 mile way.

Depth, 6 1/4 fathoms

Nature of bottom, Mussel bed.

Dredging instrument used, 7 foot beam Trawl

Direction of drift, S. W. x W. ; distance, 5/8 mile

Temperature of air, 62.0 therm. No. 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.019 temp., 17.°

~~" at depth of fathoms,~~ "

" at bottom, 1.0204 " 13.°

Number of salinometer, surface 7049 bottom 7104

Barometer reading, 30.43

State of sky, Blue, light clouds

Direction of wind, S. W. ; force, 1

Rain, no

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U. S. F. C. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport USNavy

Name and position of observer, J. D. Mulligan Pharmacist, USN

NOTES RELATING TO STATION NO. 60

8 Bushel mytilus.
2 dry Winter flounder
Few window pane
+ 100 Asterias forbesii, nearly all large size 6 to 8 in. a few 3 to 4 in
Few libinia
Eggs spring sycotypus
Several clusters chalina, rather short & broad
2 R erinacea
Cepidonotus, Crepidula fornicata
Pandeus, several large cancer irroratus. Few Ovangon, Tritia
Mostly mussels & mussel shells
Rock elbs. (?) 1 fragment sulphur sponge

Trawl capsized, was not counted
~~[illegible]~~ To be taken over again

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 61 1988

Date, Nov. 9th 1898

Time of day, 1.25 pm ; of tide, 3 1/2 h. of flood

Locality,

Exact position,

Depth, 14 3/4

Nature of bottom,

Dredging instrument used, 7 feet beam trawl

Direction of drift, ; distance,

Temperature of air, 60 therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.020+ temp., 12.5

" at depth of fathoms, "

" at bottom, 1.020 14°

Number of salinometer, 7049 7104

Barometer reading, 30.20

State of sky, Clear thin

Direction of wind, W.W. ; force, 1/2

Rain, no

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport, USNavy

Name and position of observer, J. D. McGilligan Pharmacist USN

NOTES RELATING TO STATION NO. X

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 61 — 1989

Date, Nov. 9th 1898

Time of day, 2 pm. ; of tide, 4 hr. of flood

Locality, Mt. Hope Bay

Exact position, Bristol Ferry Lt. House N.E. x N. .50 mile nearly

Depth, ~~[illegible]~~ 15 fath

Nature of bottom, ~~[illegible]~~ Sandy

Dredging instrument used, Flat Ram Trawl

Direction of drift, S.W. x W ; distance, 1/2 mile

Temperature of air, 62 therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.021 temp., 11.9

" at depth of fathoms, "

" at bottom, 1.021 " 13.6

Number of salinometer, ~~[illegible]~~ 7104

Barometer reading, 30.20

State of sky, Clear blue

Direction of wind, N.W ; force, 1/2

Rain, no

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport, U.S.N.

Name and position of observer, J. D. Mulligan Pharmacist, U.S.N.

NOTES RELATING TO STATION NO. 61

Cancer irrorata. few.
a few Mytilus. 1 alive
1 Callinectes.
Few Pandaeus
~~Few~~ Crangon Numerous
Lepidonotus
Tritia
Anachis
Scraps of Chalina
Hyppolites (?)
Oyster crabs
Star fish
1 Brittle Star
5 Forbesii 1 - 1 in 3 - 3½ in
1 4 in
1 Crebrella
Few Young common hake
1 Silver hake (?)
1 Laminaria.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 63 — 1998

Date, Nov. 9th 1898

Time of day, 2.40 ; of tide, 4 3/4 h of flood

Locality, Narragansett Bay

Exact position, Hog Island Lt ship.
N. W. 3/4 W. 25 mile mag.

Depth, 15 fathom

Nature of bottom, Shelly

Dredging instrument used, 7 feet beam trawl

Direction of drift, S. W. 1/2 W. ; distance, 1/2 mile

Temperature of air, 60 — therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.020 temp., 12

" at depth of fathoms, "

" at bottom, 1.021+ " 14.1

Number of salinometer, 7104

Barometer reading, 30.19

State of sky, Clear blue - light-clouds

Direction of wind, N. W ; force, 1/2

Rain, no

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr
R. G. Davenport, Usnam

Name and position of observer,
J. D. Milligan
Pharmacist

NOTES RELATING TO STATION NO. 62

1728 Asterias Forbesii 4 in to 6 in
Squirrel Lake
Eels.
Ardacia
Mytilus
Pacto pens
Chalina.
Skali ornacea
Bothus maculatus.
Callinectes
Litinia
Cancer irroratus.
Cribrella.
Neverretto
Caprid. plana.
E. Pollicaris.
Netridaum

Rocky bottom. Dredge torn to pieces.

643

RECORD OF DREDGING,

11.37
10.20
1.17

TEMPERATURE AND DENSITY.

Station No. 63 — 1991

Date, Nov 12th 1898

Time of day, 10.20 ; of tide, 4 3/4 hours of ebb.

Locality, Between Elisha Ledge & East Sold

Exact position, Seakonnett pt. light house W. x N. 1/4 N. 1.37 miles mag.

Depth, 8 1/2 fathom

Nature of bottom, Rocky

Dredging instrument used, Dredge

Direction of drift, W x S ; distance, 1/2 mile.

Temperature of air, 38° Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 + temp., 11.4 o.c

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 10.8 c

Number of salinometer, 7104

Barometer reading, 30.25

State of sky, Blue. ~~[illegible]~~

Direction of wind, N.N.W ; force, 2

Rain, No

Direction of surface current, No perceptible ; force,

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport USNavy

Name and position of observer, J. H. Milligan Pharmacist USNavy

NOTES RELATING TO STATION NO. 63

Small Forbesii brought up on anchor in inner harbor of Newport off Commercial wharf

Dredge was torn by rocks and lost during this haul.

Very Rocky bottom. Dredge caught & torn

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 64 — 1992

Date, Nov. 12, 1898

Time of day, 10.35 ; of tide, 5 hours of ebb

Locality, ~~Bet~~ Mar Schuyler Ledge

Exact position, Seakonnett pt. Light

N.E. x E. 3/4 E. 1.25 miles mag.

Depth, 11 fathoms

Nature of bottom, Rocky & Sandy

Dredging instrument used, Dredge

Direction of drift, S.W. 1/2 W ; distance, 3/8 mile

Temperature of air, 38° Fahr. therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.8° C

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 12.° C

Number of salinometer, 7104

Barometer reading, 30.25

State of sky, Blue

Direction of wind, N.N.W ; force, 3

Rain, No

Direction of surface current, No perceptible ; force,

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport. USNavy

Name and position of observer, J. D. Milligan Pharmacist. USNavy

NOTES RELATING TO STATION NO. 64

Mostly sand.
Number anthropods & bits
Few Angulum.
Astarte castanea small.
Diastylus sp.
Some small sand dollars
E. Longicaudus.
Tritia
Mactra shells small.
1 small cardium pinnulatum
1 l. lyalina.
1 Crangon.
1 Parasitic isopod
1 Anelio
a few broken shells Mytilus etc

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 65 - 1993

Date, Nov. 12 1898

Time of day, 11 am ; of tide, 5½ h of ebb.

Locality, West of Schuyler Ledge

Exact position, Seakonnett ~~[illegible]~~ N. x E. 3/4 E. .75 of mile mag.

Depth, 9½ fathoms

Nature of bottom, Rocky & Sandy

Dredging instrument used, Dredge

Direction of drift, W x N. 1/4 N; distance, 1/4 mile

Temperature of air, 38° Fah therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.3° C

~~" at depth of fathoms,~~ "

" at bottom, 1.023 + " 12° C

Number of salinometer, 7104

Barometer reading, 30.23

State of sky, Blue

Direction of wind, N. W ; force, 3

Rain, No

Direction of surface current, S x W ; force, 1

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport. USNavy

Name and position of observer, J. D. Milligan Chemist. USNavy

Broke dredge frame

NOTES RELATING TO STATION NO. 65

Astarte Castanea
Cribrella
& Purple Stars.
Lepidonotus
Laminaria with Obelia ~~of~~
Apirobis
Angulus
Tritia
Few sand dollars small
Pelia.
Scraps of sulph. sponge
Tops of tubes diopatria
Shells of astarte. capridula.
Serpula.
Anachis.
Eurasalpinx
E. Longicaspus
Broken shells & gravel

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 66 — 1994

Date, Nov 14 1898

Time of day, 11.20 ; of tide, 5½h of ebb.

Locality, Mouth of Seakonnett River

Exact position, Seakonnett point light E.½N. .75 mile mag.

Depth, 11½ fathoms

Nature of bottom, Rocky.

Dredging instrument used, Dredge

Direction of drift, W x N ; distance, 3/8 mile

Temperature of air, 38° Fahr, therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.9°C

" at depth of fathoms, "

" at bottom, 1.023 " 11.2°C

Number of salinometer, 7104

Barometer reading, 30.23

State of sky, Blue

Direction of wind, N. W ; force, 3

Rain, no

Direction of surface current, O x W ; force, 1/8 knot

" of bottom " ; force,

Name of vessel, U.S.F.C.V. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport USNavy

Name and position of observer, J. D. Gilligan Pharmacist USNavy

NOTES RELATING TO STATION NO. 66

Few scraps of chalina
" Sand dollars
C Pellicans
Tops of diopatria
Astarte.
Cyclocardia
Pyrozoa
Hydroids
Hyractinia
Capridula plana
Scrap of Ammarosum pellucidum
Neverita shell.
Young Grubby
L. triceriata
Mactra
Anachis
Tritia
E. longicaudus
Young cancer boreales
Crangon
Anelipes
Few Anelids
Several red tunicates
" light Col " att. to stone

Beam of trawl badly
~~Beam~~ — rocky bottom

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 67 — 1995

Date, Nov 12 — 1898

Time of day, 11.45 ; of tide, Low water

Locality, Mouth of Seakonnett River

Exact position, Seakonnett Pt. Light

S. 1/2 E. — .75 mile mag.

Depth, 7 fathoms

Nature of bottom, Rocky

Dredging instrument used, 7 feet beam trawl

Direction of drift, W.N.W. ; distance, 3/8 mile

Temperature of air, 39° Fahr therm. No., 7597

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 10.8°

~~" at depth of fathoms,~~ "

" at bottom, 1.023+ " 11°

Number of salinometer, 7104

Barometer reading, 30.22

State of sky, Blue

Direction of wind, N.W ; force, 3

Rain, no

Direction of surface current, no current ; force,

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Commr

R. G. Davenport, USNavy

Name and position of observer,

J. D. Milligan

Pharmacist, USNavy

NOTES RELATING TO STATION NO. 67

3 Ermacea
1/2 pk. Sand dollar
1 Winter flounder
1 Young squirrel hake
Tritia
2 Metridium
Crangon few
Cumma several
E. Longicaudus
Spirobis
Red Algae
1 Tenaphora
Bryozoa
Few Gammarus
L. triceriata
Few Isopods – Tridetus sp.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

1.00
11.37
1.43

Station No. ~~68~~ 68 — 1996

Date, Nov. 12 1898

Time of day, 12.05 ; of tide, 1/2 h of flood

Locality, East Side of Seakonnet River

Exact position, Seakonnett Pt Light
S. 3/4 W 2 miles mag.

Depth, 6 fath.

Nature of bottom, Rocky

Dredging instrument used, 7 feet beam trawl

Direction of drift, S.E 1/2 E ; distance, 1/4 mile

Temperature of air, 40° Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0223 temp., 11.0 C

~~" at depth of fathoms, "~~

" at bottom, 1.0237 " 11.3° C

Number of salinometer, 7104

Barometer reading, 30.22

State of sky, Blue

Direction of wind, N.W ; force, 3

Rain, no

Direction of surface current, No perceptible ; force,

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr
R. G. Davenport, U.S.N.A.

Name and position of observer,
J. D. Halligan
Pharmacist, U.S.N.A.

NOTES RELATING TO STATION NO. 68

Red algae + Chondrus + Laminaria
Thick with Sporobia + Bryozoa.
Some Coralline
V Raia Erinacea –
Few small cucumers.
Few Echinarachnius. Metridium 1
" small Cribrella.
1 small chiton rubra.
Few Crangon.
Leptochinus albidinus
Few tritia
Balanus.
C. fornicata
Amphitrite ornata.
Panopeus
E. Longicarpus in l. tettoria
Anachis sp. few
Isopeds
L. Cinebroza
Diastulus sp.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. ~~69~~ 69 — 1997

Date, Nov 1st 1898

Time of day, 1.20 ; of tide, 1 3/4 h of flood

Locality, On West side Seakonnett River

Exact position, Seakonnett Pt. Light

S. x E. 1/2 E. 2.75 miles mag

Depth, 5 fathoms

Nature of bottom, Hardpan

Dredging instrument used, Dredge

Direction of drift, S. x E. 1/2 E. ; distance, 1/4 mile

Temperature of air, 44° Fahr therm. No., 7597

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 10.8° C

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 11.0° C

Number of salinometer, 7104

Barometer reading, 30.20

State of sky, Blue

Direction of wind, N. W ; force, 2

Rain, No

Direction of surface current, N. ; force, 1/3

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport, USNavy

Name and position of observer, J. D. Milligan Pharmacist, USNavy

NOTES RELATING TO STATION NO. 69

Lin neverita
Few sand dollars.
Egg string of sycotypus.
Gammarus
Tritia -
E. Longicarpus.
Clidophera
Pandalus
Eurosalpinx shell of
L. triceriata.
Mulinea few
Dromia sp.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 70 — 1998

Date, Nov. 12 1898

Time of day, 1.30 ; of tide, 1h, 53m of flood

Locality, West side Seakonnett River

Exact position, Seakonnett Pt. Light S. x E. 1/2 E 2.37 miles mag

Depth, 6 1/2 fath.

Nature of bottom, Hard

Dredging instrument used, Dredge

Direction of drift, S ; distance, 1/4 mile

Temperature of air, 44° Fahr therm. No., 7397

" of surface water, "

" ~~at depth of~~ fathoms, "

" ~~at bottom,~~ "

Density at surface, 1.023 temp., 10.8°C

~~" at depth of fathoms,~~ "

" at bottom, 1.023 " 11.0°C

Number of salinometer, 7104

Barometer reading, 30.20

State of sky, Blue

Direction of wind, N. W ; force, 2

Rain, no

Direction of surface current, W ; force, 1/3 Knot

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Dr. Comdr R. G. Davenport. USNavy

Name and position of observer, J. W. McMeegan Pharmacist USNavy

NOTES RELATING TO STATION NO. 70

L. Heros
number of sand dollars
Mactrus
Kelp. Rock weed.
Spirobus
Chondrus.
Young cancer irrorata
Capsidula plana & fornicata
shell of neuritis
E. Longicaspa
L. tenebrosa ?
Bryozoa
Tritia
Astarte castanea
Anthropods few
Crangon few
Gammarus
Clidophera
Few Urchin spines.
~~Capsidula plana & fornicata~~
Few isopods

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 71 — 1999

Date, Nov 12-98

Time of day, 1.45 ; of tide, 2h of flood

Locality, West side Seakonnett River

Exact position, Seakonnett pt. Light

R. E. 1/2 S. 2 miles mag.

Depth, 8 1/4 fath.

Nature of bottom, Sand & shell

Dredging instrument used, Dredge

Direction of drift, S. W. ; distance, 1/4 mile

Temperature of air, 44° Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.7°C

~~" at depth of fathoms, "~~

" at bottom, 1.023+ " 12°C

Number of salinometer, 7104

Barometer reading, 30.19

State of sky, Blue

Direction of wind, N. W ; force, 3

Rain, no

Direction of surface current, N. E ; force, 1/2 Knot

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Commdr

R. G. Davenport Usnavy

Name and position of observer,

J. D. Mulligan

Phar[illegible]

NOTES RELATING TO STATION NO. 71

Broken shells of capsicula x
Callista x
Tritia x
Ongulus x
Mactra.

1 Anetid worm
L. Longicarpus
fed Isopods
Pieces of sand dollar
Amonia
Kelp, red algae.
Chondrus.
Scapharca shells.
Spirobis
1 young carrier inorata

Old series numbers resumed, & new series changed to 6000

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

2
11.37
2.23

Station No. 72 — ~~2000~~

Date, Nov 12-98

Time of day, 2 pm. ; of tide, 7h 23m of flood

Locality, South of Satchnest point.

Exact position, Seakinnett Pt. Light S.E. x E. 2.50 miles mag.

Depth, 7 1/2 fathoms

Nature of bottom, Fine gravel & Shell

Dredging instrument used, Dredge

Direction of drift, W.N.W. ; distance, 3/8 mile

Temperature of air, 44° Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.8° C

~~" at depth of fathoms,~~ "

" at bottom, 1023 " 11.4° C

Number of salinometer, 7104

Barometer reading, 30.20

State of sky, Blue

Direction of wind, N.W. ; force, 3

Rain, No

Direction of surface current, N.E. ; force, 1/2 Knot

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport, Usnavy

Name and position of observer, J. D. Milligan Pharmacist Usnavy

NOTES RELATING TO STATION NO. 72

Spirobis
2 Pauph star
Few Cribrella small
" Anthropods
1 Cyclocardia small live
1 Anchor versus
Crenella glandula (?)
Tritia
Anachis
E Longicaspus
Cyclocardia borealis small
Fine pond shells & gravel
Red Algae
Few small cumines
Mactra

600 A

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 73 - ~~2001~~ 2.25 / 11.37 / 2.48

Date, Nov. 12 - 98

Time of day, 2.25 ; of tide, 2 3/4 h of flood

Locality, Off Satchuest Beach

Exact position, Seakonnett Pt. Light S.E. - 3.25 miles mag

Depth, 5 1/2 fathoms

Nature of bottom, Sandy rocky

Dredging instrument used, 7 feet beam trawl

Direction of drift, N.W. 1/2 W ; distance, 1/2 mile

Temperature of air, 44 Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.5° C

~~" at depth of fathoms, "~~

" at bottom, 1.023 + " 11.1° C

Number of salinometer, 7104

Barometer reading, 30.20

State of sky, Blue

Direction of wind, N.W. ; force, 3

Rain, No

Direction of surface current, No current ; force,

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Commr R.G. Davenport, USNavy

Name and position of observer, J.W. Milligan Pharmacist USNavy

NOTES RELATING TO STATION NO. 73

3 squirrel hake
1 winter flounder
1 Raia erinacea
1 female labinia with eggs.
1 small balanus
Algae
Bryozoa
Isopods.
1 young silver hake (?)
Idotea irroratus
Cancer "
Caprideae fornicata
Small anthropods numerous
Coraline
A few shells of Modiola Mod. (large)
Tenebrosa (?)
Crangon — member.
Spirobis
Cynthia carneum
Quite a lot of Algae
Chondrus
E longicaspus in tritia shell.
1 young squirrel hake
1 pipe fish
Gammarus
L. tenebrosa (?)

6002

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 74 - ~~2002~~ 2.40 / 11.37 / 3.03

Date, Nov. 12-98

Time of day, 2.40 ; of tide, 3 h. of flood

Locality, Off Eastern Point

Exact position, Beakonnett Point Light N. W x W. 1/2 W. 3.50 miles neg

Depth, 8 1/2 fath.

Nature of bottom, Hard

Dredging instrument used, 7 feet beam trawl

Direction of drift, W. x N. ; distance, 1/4 mile

Temperature of air, 45° Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.8°C

~~" at depth of fathoms,~~ "

" at bottom, 1.023 " 11.7°C

Number of salinometer, 7104

Barometer reading, 30.20

State of sky, Blue

Direction of wind, N.W. ; force, 3

Rain, no

Direction of surface current, no perceptible ; force,

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr. R. G. Davenport, Usnavy

Name and position of observer, J. D. Milligan Pharmacist. Usnavy

NOTES RELATING TO STATION NO. 74

5 Ermacia.
1 P. Carolina.
1 Balanus
Crangon few.
Small quantity sea-weed,
Sand Dollars numerous
1 E. Longicarpus
1 E. Pollicaris
1 Cancer irrorata small.
1 Pandalus
1 Bernhardus.
4 squirrel hake
1 winter flounder
L tricercata
1 Pelia mutica
1 silver hake young ?!
1 Gammarus
1 Hydractinum

6003

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 75 – 2003 3.11.37 / 3.23

Date, Nov 12 98

Time of day, 3 pm ; of tide, 3h. 23m of flood

Locality, Between Eastern & Ochre Points

Exact position, Seakonnet Point Light S. E. x E. 1/2 E. 4.75 miles mag

Depth, 3 1/2 fathoms

Nature of bottom, Hard.

Dredging instrument used, 7 feet beam trawl

Direction of drift, W x S. 3/4 D distance, 1/2 mile

Temperature of air, 45° Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.8°

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 11.4°

Number of salinometer, 7104

Barometer reading, 30.21

State of sky, Blue

Direction of wind, N.W ; force, 3

Rain, no

Direction of surface current, no current ; force,

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport, USNRM

Name and position of observer, J. D. Milligan Pharmacist USNRM

NOTES RELATING TO STATION NO. 75

Few sand dollars
E Pollicaris
Capridula fornicata
Balanus
E. longicarpus
1 Window pane flounder
3 Raia rimacia
1 young sea robin
1 " silver hake (?)
Neverita
1 live 1 dead l. bivalve
Spirobis
Algae
Gammarus
Cap. plana
Idotea
Crangon fin
few Cancer irrotatus small
1 pipe fish
1 Tunicate (?)
Angulus few shells

6004

7.14
10.30
2.44

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY ~~10.30~~

Station No. 76 ~~2004~~ ~~7.14~~ 76

Date, Nov. 14th 1898

Time of day, 10.30 am; of tide, 2h 44m of ebb.

Locality, Near Dutch Isle Harbor.

Exact position, Dutch Isle Harbor Light N 1/2 E 1 mile mag.

Depth, 7 to 10 fathoms

Nature of bottom, Rocky, Mussel bed

Dredging instrument used, 7 feet beam trawl

Direction of drift, S x E ; distance, 1/2 mile

Temperature of air, 5.2° Fahr. therm. No., 7397

" of surface water, ~~1.022~~ " ~~11.0~~

" ~~at depth of~~ fathoms, "

" at bottom, ~~1.022+~~ " ~~11.2~~

Density at surface, 1.022 temp., 11.0°C

~~" at depth of fathoms,~~ "

" at bottom, 1.022+ " 11.2°C

Number of salinometer,

Barometer reading, 29-72

State of sky, Overcast, haze —

Direction of wind, S.W. ; force, very light

Rain, No

Direction of surface current, S.S.W. ; force, 1 knot

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt Comdr R. G. Davenport, USNAVY

Name and position of observer, J D Milligan Pharmacist USNAVY

NOTES RELATING TO STATION NO. 76

About a bushel of Mytilus
2 Ermacia.
3 Hake - squirrel
Lepidonotus
Panopeus number.
Capridula plana
6 Winter flounders
1 Window pane
2 Half sized barn door
Pelia mutica few
2 small arbacia
1 " green urchin
Membranipora
Few dead shells of pecten ten
" " " scallop
Petrotola
Anachis. several
1 small sea robin
53 Forbesii large 3 to 7 in
1 Pandalus
Tritia
Crangon Few
Oyster crab
Asterides in tube (Gouldii)
Few Anelids.

6005

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 77 — 2005

Date, Nov. 14-98

Time of day, 10.55 am ; of tide, 3h 40m ebb

Locality, near Dutch Island Harbor

Exact position, Dutch Island Harbor Light E x R. .25 mile mag.

Depth, 9 1/2 fathoms

Nature of bottom, Mussel bed, muddy

Dredging instrument used, 7 feet beam trawl

Direction of drift, S. ; distance, 3/8 mile

Temperature of air, 52.0 Fahr. therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0222 temp., 10.8°C

~~" at depth of fathoms,~~ "

" at bottom, 1.0222+ " 11.0°C

Number of salinometer, 7104

Barometer reading, 29.70

State of sky, Overcast

Direction of wind, O. N. ; force, light

Rain, No.

Direction of surface current, S.O.W. ; force, 1 knot

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport, USNavy

Name and position of observer, L. D. Milligan Pharmacist, USNavy

NOTES RELATING TO STATION NO. 77

13 bush mytilus
Forbesii very numerous
Raia Erinacea
1 Blue crab
1 Troponia
Pipe fish.
Cancer irrorator, stunted several female with eggs
Cribrella,
Cycotyphus
Pelia
Pancopeus

6006

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

11,23
714
4.09

Station No. 78 — ~ ~~2006~~

Date, Nov. 14-98 —

Time of day, 11,23 ; of tide, 4 h, of ebb.

Locality, Near Dutch Island Harbor

Exact position, Dutch Island Harbor Light S. 1/2 E. .87 of mile mag.

Depth, 7 1/2 fathoms

Nature of bottom, Rocky

Dredging instrument used, 7 feet beam trawl

Direction of drift, S. ; distance, 1/4 mile

Temperature of air, 52° Fahr. therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0216 temp., 10.6°

~~" at depth of fathoms,~~ "

" at bottom, 1.0222 " 10.8°

Number of salinometer, 7104

Barometer reading, 29.72

State of sky, Overcast

Direction of wind, S. W. ; force, light

Rain, no

Direction of surface current, S. S. W. ; force, 1 knot

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. B. Davenport USN

Name and position of observer, J. D. Halligan Pharmacist USN

NOTES RELATING TO STATION NO. 78

1 small neverita Lepidonotus
2 Blue crab, Cupidula placea
2 King crab. with Cupidula form.
Few Raia Ermacia
Window pane
Numerous squirrel hake. Anachis
Balanus few. E. longicaspus few
Cycotypus, E. anilipes in trita
1 Tautog, Rock eels, (?)
Few Cancer irroratus
Microciona. several pieces
Serpula ~~Lepidonotus~~
numerous Crangon Hydroid
Young sea robin, 1 cunner
3 Winter flounder
2 Window pane Obelia
Young hake Pelia
Sculpin 1 spine
Quantity of kelp & chondrus
Chalina sponge (bunch with small anthropoda.
3 small lobsters.
Few shells of Venus! Pandalus
Common scallop.
Cap. fornicata. sev. Young squirrel hake
Anomea - Mytilus few
Few Young silver hake
Anomea glabra - 1 Pipe fish
Few live mytilus.
Forbesii (asterias) 2 doz 1½ to 4

6007

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 79 - ~~2007~~

Date, Nov 14 - 1898

Time of day, 11.45 ; of tide, 4 3/4 h of ebb.

Locality, Narragansett Bay.

Exact position, Dutch Isld Light

S.S.W. 1.75 mile mag

Depth, 4 to 6 fathoms

Nature of bottom, Rocky & shelly, mussel bed

Dredging instrument used, 7 feet beam trawl

Direction of drift, S.S.W. ; distance, 3/8 mile

Temperature of air, 51° Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.022 temp., 10.4°C

~~" at depth of fathoms, "~~

" at bottom, 1.022 " 10.5°C

Number of salinometer, 7104

Barometer reading, 29.67

State of sky, overcast

Direction of wind, S.W. ; force, 1

Rain, No

Direction of surface current, S.S.W ; force, 1/2 knot

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport, USNavy

Name and position of observer, L. D. Milligan Pharmacist USNavy

NOTES RELATING TO STATION NO. 79

1-18 spine sculpin.
4 squirrel hake
5 Wrelei flounder
1 Window pane
1 Labinia
~~Cycotypus shell~~
Shells of mytilus
Patricola
1 Sycotypus liri
Fulgus
Capridula fornicata
Crangon
Bryozoa
Microciona.
Asterias Forbesii 1 small regenerating
Few empty skate eggs
Cap. plana
E. Longicaipus fen
Eurosalpinx,
E. Anelipes in tritia
Anachis
Neverita small
Pandpeus

dead shells.

6008 2008 1928 80

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 80 — 2008

Date, Nov. 14. 1898.

Time of day, 1 pm ; of tide, Low water

Locality, Narragansett Bay

Exact position, Conanicut N. pt. Light

~~[illegible]~~ N.E. x E ½ E. 2.25 miles mag.

Depth, 5 fathoms

Nature of bottom, Rocky

Dredging instrument used, 7 feet beam trawl.

Direction of drift, S. x W. ; distance, 3/8 of mile

Temperature of air, 52° Fahr therm. No., 7397

" ~~of surface water,~~ "

" ~~at depth of~~ fathoms, "

" ~~at bottom,~~ "

Density at surface, 1.021 temp., 10.5° C

~~" at depth of fathoms,~~ "

" at bottom, 1.021+ " 10.7° C

Number of salinometer, 7104

Barometer reading, 29.64

State of sky, Overcast —

Direction of wind, W x South ; force, 11

Rain, no.

Direction of surface current, 0 ; force, 0

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt Comdr R. G. Davenport. USNRS

Name and position of observer, J. W. Milligan Pharmacist USNRS

NOTES RELATING TO STATION NO. 80

2 Winter flounder
3 Window pane "
2 Squirrel hake - small
4 Raia Ermacea
1 Sycotypus lini
1 Cancer irroratus, small
Few pieces of Clionia Sulph
Serpula
Paracopens.
Escharella
Few shells of Mytilus
Ovifina.
Sycotypus few dead
C. Fornicata, Tritia
Lin tritia
Gangon plentiful
Membranipora
Small anthropods, few
Few lepidonotus
E. Longicarpa
14 Stars. Forbesii 1 to 3 in
Hydrastinia
Small shells of sycotypus, Tritia.
Trittoria with E. Longicarpa
Dead shell of Cidaphera
1 Young fish (?), 1½ in long

6009

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 81 — ~~2009~~

Date, Nov. 14. 1898

Time of day, 1. 35 pm; of tide, 1/2 to of flood

Locality, Narragansett Bay

Exact position, Conanicut N. Pt Light

N. E x N 1/2 N ~~[illegible]~~ 1/2 miles no

Depth, 4 fathom

Nature of bottom, muddy

Dredging instrument used, Fishham trawl

Direction of drift, N. S. W x S.; distance, 3/8 mile

Temperature of air, 5 0° Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.021 temp., 10.2°C

~~" at depth of fathoms, "~~

" at bottom, 1.021+ " 10.7°C

Number of salinometer, 7104

Barometer reading, 29.64

State of sky, ~~[illegible]~~ Blue Cloudy

Direction of wind, N. x W.; force, 2

Rain, no

Direction of surface current, 0; force, 0

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport, U.S.N.

Name and position of observer, J. D. McMillan Pharmacist

NOTES RELATING TO STATION NO. 81

Shells of nearly all mollusks numerous
1 Blue Crab.
4 Squilla small
Eggs of sycotypus Spiperfish
Serpula - numerous.
4 Raia Eminiana
4 Winter flounder Mulinea
9 Window panes. Crangon
Sycotypus
~~Cap~~ Crepidula plana
E pollicaris several in
Fulgar & sycotypus shells
1 arcibil.
Small silver hake (?)
Tritia - Yoldia shells.
Nuculea
Shells of Anomea. callista. tritia
cap formicata
Pecten irrad.
Euplerura, some alive
Cistenedes
E. Longicaspus, few hydroids
Panopius several
Scapharca shells
Yoldia plentiful. Urozalpinx
Anadin. Rock els. (?)
Lepidonotus
Common Star nearly 100 1 in to 5 in

6010

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 82 ~~2010~~

Date, Nov. 14 - 98

Time of day, 2.05 pm ; of tide, 1h. of flood

Locality, Narragansett Bay

Exact position, Gnaniceut N. pt. Light S.E 1/2 S 1.25 miles mag.

Depth, 3 3/4 fathoms

Nature of bottom, muddy

Dredging instrument used, Fleetham trawl

Direction of drift, N x S ; distance, 1/4 mile

Temperature of air, 52° Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.020 temp., 10.0 °C

" at depth of fathoms, "

" at bottom, 1.021 " 10.1 °C

Number of salinometer, 7104

Barometer reading, 29.64

State of sky, Overcast

Direction of wind, N.W ; force, 2

Rain, no

Direction of surface current, N.E ; force, 1/8 knot

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comm. R. G. Davenport, USN

Name and position of observer, J. D. Milligan Plain USN

NOTES RELATING TO STATION NO. 82

1 Blue crab,
1 cancer irroratus
+ Window pane
1 Brown flounder, Paroxpens
2 hake, squirrel
3 Young squilla, Clidiophora
Dead Cystic shells.
Sycotypus - dead - Cistenedes
Callista convexa.
Pholas costata.
Shells of mya, cap. formiata
Mytilus, Yoldia.
Few Anelids - Tritia - Euplura
~~Euplura~~ + tritia alive
C. formicalis + C. plana, alive -
few Hydroids - Crangon 1 few,
Small shells of l. heros
Cardium pinnulatum
nuclea. L. triceriata
Angulus, mulinea shells
Parypleura
~~1 Anelid~~
120 Forbesii Stars - small 1 in to 3 in

6011

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 83 — ~~2011~~

Date, Nov 14 - 98

Time of day, 2.25 pm; of tide, 1h. 30m of flood

Locality, Narragansett Bay

Exact position, Cornerment N. Pt. Light S. 3/4 E. 1.50 miles mag

Depth, 4 3/4 fathoms

Nature of bottom, muddy, shelly

Dredging instrument used, 7 feet beam travel

Direction of drift, N. W x W. 3/4 W. Distance, 1/2 mile

Temperature of air, 52° Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.020+ temp., 10.1°C

~~" at depth of fathoms, "~~

" at bottom, 1.022+ " 10.°C

Number of salinometer, 7104

Barometer reading, 29.64

State of sky, Overcast

Direction of wind, N. W. ; force, 2

Rain, No

Direction of surface current, N. E ; force, 1/4

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport, Usnavy

Name and position of observer, J. W. Milligan Pharmacist, Usnavy

NOTES RELATING TO STATION NO. 83

✓ Mnetia florida
about 175 Stars, Forbesii – 1 Hake
1½ to 1¾ inches
Squilla several young
1 carr of king crab cov. with barnacles
Shells of callista convexa, Yoldia
Sycotypus Clidiophora, C. fornicata
Mucula, Mulinea, Common scallop
Liv tritia.
Anchos, mya shells
Euplenra. Obelia on kelp
L. heroe – shells. Razor clause
Cardeum pinnulatum

6012

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 84 — ~~2012~~

Date, Nov. 14. 98

Time of day, 2.45 pm ; of tide, 1 3/4 h of flood

Locality, Narragansett Bay

Exact position, Canonicus Pt N. high S 1/2 East. 2.50 miles mag.

Depth, 4 1/2 fathoms

Nature of bottom, Muddy & Shelly

Dredging instrument used, 7 feet beam trawl

Direction of drift, N.W. & W. 1/2 W. ; distance, 1/2 mile

Temperature of air, 52° Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.020 temp., 10.°

~~" at depth of fathoms, "~~

" at bottom, 1.021 " 10.°

Number of salinometer, 7104

Barometer reading, 29.63

State of sky, ~~Overcast~~ Cloudy & blue

Direction of wind, N. W. ; force, 3

Rain, no

Direction of surface current, N. E ; force, 1/2

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport. USNavy

Name and position of observer, J. D. Mulligan Phar. USNavy

NOTES RELATING TO STATION NO. 84

1 Ermacea
1 Squirrel hake
2 Smelt flounder
2 window pane
1 Hog choker
Few Young squilla
Rock eels ?
1 Young silver hake ?
about 150 Forbes stars
Crangon, scycotepus, tritia
Botrylus, Panopeus
Cistenides, Euplania
2 pipe fish
Rock eels, Nucula
Palaemonetes, number 1 Young silver fish ?
Same shells as in preceding haul
with exception of Tadulus
l. Litoria, Scapharcha
1 Barebrat.

6013

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 85 — ~~20x3~~

Date, Nov. 4 98

Time of day, 3 pm ; of tide, 2h of flood

Locality, Narragansett Bay

Exact position, Warwick Light.

N. N. E. 2.50 miles mag

Depth, 4½ fathoms.

Nature of bottom, Shelly & Muddy

Dredging instrument used, 7 feet beam trawl.

Direction of drift, N. W ½ N ; distance, 3/8 mile

Temperature of air, 52° Fah. therm. No., 7394

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.020 temp., 10.°

~~" at depth of fathoms, "~~

" at bottom, 1.020+ " 9.8° C

Number of salinometer, ~~[illegible]~~ Bottom 710 C

Barometer reading, 29.63

State of sky, Overcast.

Direction of wind, N. W ; force, 3

Rain, No.

Direction of surface current, N. E ; force, 1/2

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport. USNavy

Name and position of observer, J. D. Milligan Planner, USNavy

NOTES RELATING TO STATION NO. 85

6 Winter flounder
3 Erinacea.
1 Hake, squirrell.
several Jung squilla.
Crangon & Palaemonetes
Eupleura. Botryllus.
Cleidophora Tritia
[illegible]
shells of C. fornicata, callista
Yoldia Petricola. common scallop
Cleidophora. anomia.
scaphoncha. Fragment of P. costata
+ 80 Stars Forbes. 1 to 4 inches
Pipe fish few
Few small silver fish ?
Rock rels ?,
Panopeus. Mulinea
Few Amphipods
Asteroides, few
E Longicarpus few
Small Sycotypus
Few Mytilus shells.

6014

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 86 — ~~2014~~

Date, Nov. 14. 98

Time of day, 4 pm ; of tide, 3 h of flood

Locality, Narragansett Bay

Exact position, Rose Isld. Light

S x E. 1.75 miles may

Depth, 12 1/4 fath

Nature of bottom, Hard

Dredging instrument used, 7 feet beam trawl

Direction of drift, S.W. x S. 1/2 S ; distance, 1/2 mile

Temperature of air, 48° Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.022 temp., 11° C

~~" at depth of fathoms,~~ "

" at bottom, 1.022 " 10.8°

Number of salinometer,

Barometer reading, 29.65

State of sky, Overcast

Direction of wind, N.W. ; force, 4

Rain, no

Direction of surface current, N.E ; force, 1/2

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport, USNavy

Name and position of observer, J.D. Milligan

NOTES RELATING TO STATION NO. 86

1 Conger eel - 1 fortling
4 Raia Eunacea. + 1 young
Few Young squirrel hake
" " silver " (?)
2 cluster of chalina
2 pieces of Cliona sulph
1 Windows frame
Pelia mutica.
E Longicarpus.
3 small Jaculus. - Few Idotea
1 Cancer irrorata small.
1 pipe fish. Euphema
Crangon, Young sea robin.
Cycotypus shell
Spirobis.
Diaphasia hydroid.
Kelp, eel-grass
+ 2 dry Stars Forbesii 1 to 4
Pelia mutica.
Astarte + Tritia shells
L. littoria Chlorophora
L. Inscenata Glyanasa
Intermediate E. Longicarpus
Pandora 1 hor. calliota con
1 hor. Chlorophora. crack

6015

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 87 — ~~2015~~

Date, Nov. 14 — 98

Time of day, 4.20 pm ; of tide, 3¼ hr of flow

Locality, Narragansett Bay

Exact position, Rose Isld Light
O.xE ¼E — -75 of mile bay

Depth, 24 fathoms

Nature of bottom, Hard

Dredging instrument used, Heat bean tr

Direction of drift, P.W.x ; distance, 1/2 mile

Temperature of air, 48° Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.021+ temp., 11°

~~" at depth of fathoms,~~ "

" at bottom, 1.0224 " 10.7°

Number of salinometer, 7104

Barometer reading, 29.65

State of sky, Overcast

Direction of wind, N.W ; force, 4

Rain, No

Direction of surface current, N.E ; force, 1/2

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr
R. G. Davenport, USNavy

Name and position of observer,
J. D. Milligan
Pharmacist USNavy

NOTES RELATING TO STATION NO. 87

+20 Raia Ermacia, c
numerous squirrel hake
1 Winter flounder. lage
Kelp. Al. grass.
E. Longicarpus sensual
small Crangon
8 small skates ermacia
+ 2 dry stars Fyber
Callista & pectin ten
shells. L. littoria
1 Palaemonetes. Pelia
few Jung Carcer Moralia
Euplana, Pacifica.
L. tricerata, Probably mem-
branifera, Cap. plana.

6016

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 88 — ~~2016~~

Date, Nov. 14. 98

Time of day, 4.45 pm; of tide, 3 3/4 h. of flood

Locality, Narragansett Bay

Exact position, Rose Fold Light

N.E. x N. 50 scale mag.

Depth, 19 fathoms

Nature of bottom, Hard

Dredging instrument used, 7 feet beam trawl

Direction of drift, S x W. 1/4 W; distance, 1/2 mile

Temperature of air, 49° fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.021 temp., 10.3 °C

~~" at depth of fathoms,~~ "

" at bottom, 1.021+ " 10.6

Number of salinometer, 7104

Barometer reading, 29.65

State of sky, Overcast

Direction of wind, N.W; force, 4

Rain, no

Direction of surface current, N.E; force, 1/2

~~" of bottom "~~ ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Commr R. G. Davenport. U.S.N.

Name and position of observer, J. D. Williams Pharmacist U.S.N.

NOTES RELATING TO STATION NO. 88

Few pieces of kelp.
1 Eorracia
Few pandalus.
" Pelia
Diaphrasia hydroid
1 Astarte undatum
L. bicornata with E. longicaspis
Some young cancer (?) irroratus
Few Crangon. Tritia shells
Small conicibulum shells.
Sponge (?)
Young hake - squirrel
L. litorea shells.
1 young & spot flounder
1 Cribrella
OS with plumae hydroid

Dredge & all connected with it carried away during the day haul. Bottom very rocky at this station and for some distance to westward.

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 89 — ~~2017~~

Date, Nov. 15th 1898

Time of day, 8.40 Am ; of tide, 40m of ebb.

Locality, Off Ochre Point.

Exact position, Seatconnet Pt light bears E x S. 3/4 S 4 miles may

Depth, 8 fathoms

Nature of bottom, Very Rocky

Dredging instrument used, Dredge

Direction of drift, S.W. 1/2 S. ; distance, 3/8 mile

Temperature of air, 40° — therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 + temp., 12.7° C

~~" at depth of fathoms, "~~

" at bottom, 1.024 + " 11.3° C

Number of salinometer, 7104

Barometer reading, 30.08

State of sky, Blue

Direction of wind, N.W ; force, 3

Rain, No -

Direction of surface current, 0 ; force, 0

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport. USNavy

Name and position of observer, J. V. Milligan Pharmacist USNavy

NOTES RELATING TO STATION NO. 89.

Dredge carried away.
Bottom very rocky.

Some Kelp. no algae
Sponges, Bryozoa, and a
few clusters of small nudibranch
eggs, clung to frame

Bottom very rocky, and dredge was hauled sooner than usual in consequence.

643 6018

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 90 — ~~2018~~

Date, Nov. 15-98

Time of day, 9.10 am ; of tide, 1h 10m of ebb.

Locality, East of Brenton's Reef.

Exact position, Brenton's Reef Lt. ship

~~[illegible]~~ W 1/2 S. .75 mile mag.

Depth, 14 fathom

Nature of bottom, ~~Fine gr. rocky~~ & Sandy

Dredging instrument used, Dredge

Direction of drift, W. S. W. ; distance, 1/2 mile

Temperature of air, 40° Fahr. therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 + temp., 12.0° C

~~" at depth of fathoms, "~~

" at bottom, 1.024 " 11.3° C

Number of salinometer, 7104

Barometer reading, 30.08

State of sky, Blue

Direction of wind, N. W. ; force, 3.

Rain, no

Direction of surface current, E ; force, 1/3 knot

~~" of bottom " ; force,~~

Name of vessel, USFCS Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr. R. G. Davenport. USNavy

Name and position of observer,

J. H. McMillagan

Pharmacist USNavy

NOTES RELATING TO STATION NO. 90

L. trocenata tritia
with E. Sargeanpus
1 anelid Rhynchobolus young
Few amphipods. - worlet
Lucina. filosa, astarte
Cyclocardia. Yoldia
Cucibulum
Kelp. on Modiola mod.
Few sand dollars small
Gravel + broken shells + sand
Membranipora.

Ghead shells

Bottom very rocky, and dredge was taken up prematurely in order to save it. 6019

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 91 — ~~2019~~

Date, Nov. 15 - 98

Time of day, 9.20 am ; of tide, 1h 20m of ebb.

Locality, near Brenton's Reef ~~[illegible]~~.

Exact position, Brenton's Reef Lt Ship W x N. 1/2 N. 1.50 miles mag

Depth, 12 fathoms

Nature of bottom, Hard gravelly bottom

Dredging instrument used, Dredge

Direction of drift, W. S. W. ; distance, 1/8 mile

Temperature of air, 40° Fahr therm. No., 7377

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023+ temp., 12.0°C

~~" at depth of fathoms, "~~

" at bottom, 1.023+ " 11.4°C

Number of salinometer, 7104

Barometer reading, 30.08

State of sky, Blue

Direction of wind, N. W. ; force, 3

Rain, No

Direction of surface current, E ; force, 1/2

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt Comdr R. G. Davenport, USNR

Name and position of observer,

J. H. Milligan
Pharmacist USNR

NOTES RELATING TO STATION NO. 91

Red Algae, Spirobis. numerous
Lepidonotus.
Coralline
Cribrella, small, plentiful
Astarte live, few
Bryozoa. Anachis.
1 small cumner
Kelp with Obelia
Few Crangon
Urosalpinx shell
E. Anaelepes (?)
Gravel: — Tusus. Sp.

6020

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 92 ~~2020~~

Date, Nov. 15-98

Time of day, 9.50 ; of tide, 1h 50m ebb.

Locality, Near Brenton's Reef.

Exact position, Brenton's Reef Drship S. W. x S. .50 mile mag

Depth, 15 1/2 fathoms

Nature of bottom,

Dredging instrument used, Dredge

Direction of drift, N. W 1/2 N ; distance, 3/8 mile

Temperature of air, 41° Fahr. therm. No., 7397

" ~~of surface water,~~ "

" ~~at depth of~~ fathoms, "

" ~~at bottom,~~ "

Density at surface, 1.023+ temp., ~~11.2°C~~

~~" at depth of fathoms, "~~

" at bottom, 1.023+ " 11.2°C

Number of salinometer, 7104

Barometer reading, 30.09

State of sky, Blue

Direction of wind, N. W ; force, 3

Rain, No

Direction of surface current, S.E. ; force, 1/2

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt Commdr R. G. Davenport, USNRC

Name and position of observer, J. W. Milligan Pharmacy Mag

NOTES RELATING TO STATION NO. 92

Few lur cyclocardia
" very small sand dollars
Tritia numerous
Few very small mactra - young
Cardium pinnulatum?
Few crangon.
Sporites Anachis
Young astarte
L. triceratia with E. longicarpa
Young l. heros.
Empty shells of alone
+ unsalpinx
Anomia, few.
Broken mytilus
Few small worms + tubes
Crinella grandula (?)
1 pink synapta (?)
C. formeata shells - few
Mactra few young
Corbula
1 Gouldi mactracea (?)

6021

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 93 — ~~2021~~

Date, Nov. 15 - 1898

Time of day, 10.30 am ; of tide, 2½ h. of ebb

Locality, West Entrance to Massagan. Bay

Exact position, Beaver Tail Light. S.E. 1.37 mile mag

Depth, 6¼ fathoms

Nature of bottom, Sandy Hard

Dredging instrument used, ~~Dredge~~ Fish Rake Trawl

Direction of drift, S x W. ; distance, ¼ mile

Temperature of air, 42° Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.2° C

~~" at depth of fathoms,~~ "

" at bottom, 1.023 " 11.5° C

Number of salinometer, 7104

Barometer reading, 30.12

State of sky, Blue

Direction of wind, N.W ; force, 5

Rain, no

Direction of surface current, S.S.W ; force, one knot

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt Comdr R. G. Davenport, USN

Name and position of observer, J. D. Milligan Pharmacist USN

NOTES RELATING TO STATION NO. 93

Few Cracejon Spirobis
Neorita.
Few Young lady crab.
" Sand dollar.
Tritia with E. Longicarpus
Few hir tritia.
" Young mactra
Anelida.
L. heros anachis shells
L. littoria,
Tellina.
1 1/4 in. purple star
Young astarte shells
Anfalus
Anomea aculeata
L. triceriata occupied by E. Longi.
Strange crustacea

6022

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 94 — ~~7022~~

Date, Nov. 15 98

Time of day, 10.40 ; of tide, 2h 40m of ebb

Locality, Western Passage of Narragansett Bay

Exact position, Whale Rock Light

S x W — .50 mile mag

Depth, 9 3/4 fathoms

Nature of bottom, Hard shell

Dredging instrument used, Dredge

Direction of drift, S.S.W. ; distance, 1/4 mile

Temperature of air, 42° Fah therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.3° C

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 11.5° C

Number of salinometer, 7104

Barometer reading, 30.12

State of sky, Blue

Direction of wind, N.W ; force, 5

Rain, no

Direction of surface current, S.S.W ; force, 1 knot

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr R. G. Davenport USNA

Name and position of observer, J. D. Milligan Pharmacist

NOTES RELATING TO STATION NO. 94

Shelly - very light brown
Few small sand & Olive
Tritia, Crangon, few small
Young Mactra.
" Cancer irroratus
L. Tricercati Brit E. Longic
Eurosalpinx, l. leeros
Tritia, Anachis,
Broken Mytilus
Crustacea (?), Bryozoa
Scaphaea shells.
Fusus shells (?)

6023

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 95 — ~~2023~~

Date, Nov. 15 — 98

Time of day, 10.55 ; of tide, 2h. 55m. ebb

Locality, Near Whale Rock Light.

Exact position, Whale Rock Light.

N. E 3/4 E. .50 mile mag

Depth, 10 fathoms

Nature of bottom, Hard shelly

Dredging instrument used, Dredge

Direction of drift, S.W. x S. 1/2 S. ; distance, 3/8 mile

Temperature of air, 44° Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.2° C

~~" at depth of fathoms, "~~

" at bottom, 1.023+ " 11.8° C

Number of salinometer, 7104

Barometer reading, 30.13

State of sky, Blue

Direction of wind, N.W. ; force, 5

Rain, no —

Direction of surface current, S.S.W. ; force, 1 Knot

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt Comdr R. G. Davenport USCS

Name and position of observer, J. A. [illegible]

Ph. [illegible]

NOTES RELATING TO STATION NO. 95

1 maroon star. 2/2
fms L. triceriata alva
Tritia "
" Mactra.

L triceriata
Tritia } occupied by E. longirostrum
Nassa vivex (?)
Shells of Mactra, Spidia
Tritia, L. triceriata, Anomia
C. fornicata.
1 or 2 small arrows (?)

6024

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 96 — ~~2024~~

Date, Nov. 15-98

Time of day, 11.10 am ; of tide, 3h 10m of ebb

Locality, Near Narragansett Pier.

Exact position, Whale Rock Light

N. E x E 1/2 E — 1 mile mag.

Depth, 7. 3/4 fathoms

Nature of bottom, Hard

Dredging instrument used, 7 feet beam trawl

Direction of drift, S. W. ; distance, 3/8 mile

Temperature of air, 43 therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.022+ temp., 11.2° C

~~" at depth of fathoms, "~~

" at bottom, 1.023+ " 11.8° C

Number of salinometer, 7104

Barometer reading, 30.13

State of sky, Blue

Direction of wind, N. W ; force, 5

Rain, no

Direction of surface current, S. S. W ; force, 1/2 knot

" of bottom " ; force,

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt Comdr R. M. Davenport USNavy

Name and position of observer, J. H. Milligan Ph. USNavy

NOTES RELATING TO STATION NO. 96

Few Crangons
2 Raia Erinacea
1 squirrel hake
Eel grass, a little
Few E. longicarpus in tritia
Hydroids
Diaphasia, a little
Red algae,
1 Yoldia "shell"
1 Cancer irroratus.

6025

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 97 — ~~2025~~

Date, Nov. 15. 98.

Time of day, 11.20 ; of tide, 3h 20m Ebb

Locality, Near Narragansett Pier.

Exact position, Whale Rock Light.

N.E 1/2 E — 1.75 mile mag.

Depth, 10 fathoms

Nature of bottom, Hard.

Dredging instrument used, 7 feet beam trawl

Direction of drift, S. 3/4 E ; distance, 1/2 mile

Temperature of air, 44 therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.022 + temp., 11.3° C

~~" at depth of fathoms,~~ "

" at bottom, 1.023 + " 12.1° C

Number of salinometer, 7104

Barometer reading, 30.12

State of sky, Blue

Direction of wind, N.W. ; force, 5

Rain, no

Direction of surface current, S.S.W. ; force, 1/2 Knot

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Commr R. G. Davenport. USN

Name and position of observer, J. Mulligan P. [illegible]

NOTES RELATING TO STATION NO. 97

2 Raia Erinacea
1 Squirrel hake
1 large Summer flounder
2 Pandulus,
Piece of kelp with obelia
2 small silver fish (?)
Piece of diaphana hydroid
Few orangers
1 clusters of midibranchs
Tritia
1 Ex longicaspum
1 pipe fish.

6026

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 98 — ~~2026~~

Date, Nov. 15 — 98

Time of day, 11.35 am ; of tide, 3.h 35m ebb

Locality, Off Pt. Judith Neck.

Exact position, Pt. Judith Light

S. W. x W. — 3.37 mile mag

Depth, 10 fathoms

Nature of bottom, Hard

Dredging instrument used, 7 feet ham trawl

Direction of drift, S. S. W. ; distance, 1/4 mile

Temperature of air, 44° Fahr. therm. No., 7299

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.6°C

~~" at depth of fathoms,~~ "

" at bottom, 1.023 " 12.8°C

Number of salinometer, 7104

Barometer reading, 30.12

State of sky, Blue

Direction of wind, N.W. ; force, 5

Rain, No

Direction of surface current, S. S. W. ; force, 1/2 knot

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt Comdr R. M. Davenport, USN

Name and position of observer, J. H. Wilbur Pl. [illegible]

NOTES RELATING TO STATION NO. 98

1 Goose fish
4 Ermacia
1 18 Opium sculpture
1 winter flounder
1 silver hake (?)
Deaphasia
Few Sand dollars
" Crangon
E. longicaspa in L. ~~tricinata~~ +
tritia shells
1 Purpura
1 Fusus shell
Little kelp.
1 ~~Cylas dentata (shell of~~
~~Nassa vivex (?)~~

6027

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 99. — ~~2027~~

Date, Nov. 15—98.

Time of day, 11.45 ; of tide, 3¾ h of ebb.

Locality, Off Pt. Judith Neck

Exact position, Pt. Judith Light.
S. W. ½ W. 2.75 miles mag

Depth, 10½ fathoms

Nature of bottom, Hard

Dredging instrument used, 7 feet beam trawl

Direction of drift, S. W. ; distance, ¼ mile

Temperature of air, 44° Far therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.6° C

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 12.5° C

Number of salinometer, 7104

Barometer reading, 30.12

State of sky, Blue

Direction of wind, N. W ; force, 5

Rain, No

Direction of surface current, S. S. W. ; force, ½ Knot

" of bottom " ; force,

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, Lt. Comdr
R. L. Davenport USN

Name and position of observer,
R. D. M.
R USN

NOTES RELATING TO STATION NO. 99

Few sand dollars
2 squirrel hake
1 Forbesii star 5 in
Few Crangon
" Mytilus shells,
2 Astarte castanea
Few tritia ecc. by E. longicaspum
~~Diaphasia~~ = Hydrallmania
1 small white holothurine
1 Young mactra
1 Cylas dentata shell of
1 nassa vivex. (?)

In these notes the hydroid usually put down as Diphasia is probably Hydrallmania falcata

L. tenebrosa should be Lacuna Vincta

nassa vibex? is Tritia trivitata

100

Time 6028

100

Depth 6 ½
Bottom
Tyrrhenian
Temp. 45

Den. surface 1.023 Temp 11.5°
" Bottom 1.023 " 12.0°C

Bar 30.08

3 Ermaine
8 squirrel hake
1 silver hake ?
4 18 spine sculpin
1 windowed fan
Red stained dollar
E. longicaudata in tubes &
l. littoria