6028 - 6075

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Jan. 18.98

Numbers 6028 to 6075

121
57
4) 64

6028

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 100 — ~~2028~~

Date, Nov. 15 - 1898

Time of day, 12 m ; of tide, 4 h of ebb.

Locality, Off Pt. Judith Neck

Exact position, Pt. Judith Light S. W. 1/2 W. 2 miles mag.

Depth, 6 1/2 fathoms

Nature of bottom, Hard

Dredging instrument used, 7 feet beam trawl

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

Temperature of air, 45 therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.5°

" ~~at depth of fathoms,~~ "

" at bottom, 1.023 " 12.°C

Number of salinometer, 7104

Barometer reading, 30.08

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. G. Davenport USN

Name and position of observer, J. W. Milligan Chas. USN

NOTES RELATING TO STATION NO. 160

3 Rasa Gomacia
8 Spiegel Lake
1 other " ?
4 – 18 Spine sculpsis.
1 Window Lane of Sunder
Few Sand Pollar
E Longicamp in tritia &
Li Littoria.
Diaphasia. Spirilis red algae

no stars

Bottom very rocky. short dredge in consequence

6029

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

~~2029~~

Station No. 101

Date, Nov 15th 1898

Time of day, 1.05 pm ; of tide, 5h 5m yeth

Locality, Off Pt. Judith Neck

Exact position, Pt. Judith Light.

S.W. 1/2 S. 1.63 miles mag.

Depth, 6 1/2 fathoms

Nature of bottom, Hard rocky

Dredging instrument used, 7 feet beam trawl

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

Temperature of air, 46° Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.5°

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 12°

Number of salinometer, 7104

Barometer reading, 30.10

State of sky, Blue

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

Rain, No

Direction of surface current, Slack, force, water

~~" 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, JWM Ph. USNavy

NOTES RELATING TO STATION NO. 101

Red algae
Bryozoa numerous.
Scraps of sulphur Sponge
Few crangon. Spirobis
Small cribrella. number
Cap. fornicata
Diaphasia - Hydrallmania
Kelp with obella
Delleseria
Coraline.
1 sand dollar
Urosalpinx
E. Longicarpus in l. littoria
1 small silver fish (?)
Small Mylitus shells, few
1 small cumnea
young sea robin.
Anachis.

Bottom very rocky. Trawl taken in immediately 6030

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 102 ~~2030~~

Date, Nov. 15, 1898

Time of day, 1.18 ; of tide, 5h 18m ebb

Locality, Off Pt Judith beach

Exact position, Pt Judith Light S. W x W 1.12 miles mag.

Depth, 11 fathoms

Nature of bottom, Very rocky

Dredging instrument used, 7 feet beam trawl

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

Temperature of air, 46 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, 1.023 " 12.1° C

Number of salinometer, 7104

Barometer reading, 30.10

State of sky, Blue

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

Rain, no

Direction of surface current, Slack water ; force,

~~" of bottom " ; force,~~

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

Service to which attached, Fish Hawk

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

Name and position of observer, J. W. Kellogan Pharmacist USN

NOTES RELATING TO STATION NO. 102

1 Goose fish.
~~Few~~ small cunners, numerous
5 ~~Several~~ pieces of astrangia
Few pieces of sulphur sponge
Red algae
Brittle star, several
Scyonia tenella.
Diaphasia ?=Hydrallmania
Several Cribrella,
Mactra.
Alcyonium, few small pieces
Anachis -
Young cyclocardia.
Few sand dollars.
Broken shell of anomea,
Bryozoa
Spirobis,
few small annelids

Bottom very rocky.
Trawl taken in prematurely
6031

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 103 ~~2031~~

Date, Nov. 15-1898

Time of day, 1.35 ; of tide, 5h 35m of ebb

Locality, East of Pt. Judith Light House

Exact position, Pt Judith Light

E x S 0.50 mile mag

Depth, 9 fathoms

Nature of bottom, Very rocky

Dredging instrument used, 7 feet beam trawl

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

Temperature of air, 46° 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 " 12.0° C

Number of salinometer, 7104

Barometer reading, 30.10

State of sky, Blue

Direction of wind, N. W ; force, 3

Rain, No

Direction of surface current, Slack water ; 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. Comm

R. B. Davenport, USNRS

Name and position of observer,

J. S. Milligan

Ph. USNRS

NOTES RELATING TO STATION NO. 103

numerous cumers
Cap. fornicata - live
1 young scup.
Red algae
Bryozoa
Spirobis.
Few cribrella small
E. longicarpus in urosalpinx
Dead shells of C. fornicata &
Cyclocardia
Fragment of sulph. sponge
Anachis
Tritia with E. longicarpus

Trawl torn,
Very rocky bottom,
6032

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 104 — ~~2032~~

Date, Nov. 15 – 98

Time of day, 1.50 pm ; of tide, 5h 50m of ebb

Locality, South of Pt. Judith

Exact position, Pt. Judith Light. N x E, .75 mile mag

Depth, 6 3/4 fathoms

Nature of bottom, Very rocky

Dredging instrument used, 7 feet tram trawl

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

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

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.2

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 11.8° C

Number of salinometer, 7104

Barometer reading, 30.10

State of sky, Blue

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

Rain, No –

Direction of surface current, Slack water ; 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, USNRS

Name and position of observer, J. D. Millican USNRS

Dredge Tow

NOTES RELATING TO STATION NO. 104

Red Algae with spirobis &
Bryozoa & pennaria hydrom
Small amphipods, few
Pelia sp.
Few small cumaceans
" " cribrella
Lepidonotus
Anachis Astyrus
1 small piece sea-pork

6033

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 105 — ~~2033~~

Date, Nov. 15 – 98

Time of day, 2.03 ; of tide, Low water

Locality, S. W. of Pt. Judith.

Exact position, Pt. Judith Light E. N. E. 1/4 .75 mile mag.

Depth, 3 fathom

Nature of bottom, Stony.

Dredging instrument used, Dredge

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

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

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.0°C

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 11.1°C

Number of salinometer, 7104

Barometer reading, 30.10

State of sky, Blue. cloudy

Direction of wind, N. W ; force, 3

Rain, no

Direction of surface current, E. ; 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, Lt Commr R. G. Davenport. USN

Name and position of observer, [illegible] Pt. USN

NOTES RELATING TO STATION NO. 105

Astyris
Chiton rubra.
Urosalpinx,
Cribrella few
Algae & Bryozoa, numerous
scrap of cuttle. Sponge
Spirobis
Jeroids. Few
Few Cumaceans small
Purple star
Small pieces of sea pork
Some kelp.
Membranipora
2 Forbesii stars 1 inch
Few idotea
Coralline plentiful
Few Cammarus
Small panopeus
Urosalpinx with hermit crab
Tritia with E. Analepes.
Anachis numerous alive &
occupied by hermits
tenebrosa (?)
3 Purple stars 2 1/2 in
1 or 2 Fucus (?)

6034

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 106 ~~2034~~

Date, Nov. 15, 98

Time of day, 2:20 ; of tide, 1/2 hr of flood

Locality, Off South Point of Breakwater

Exact position, Pt. Judith Light

E x N. 1.50 miles mag.

Depth, 6 1/4

Nature of bottom, Gravelly & Sand

Dredging instrument used, Dredge

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

Temperature of air, 47° therm. No. 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.00

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 10.3°

Number of salinometer, 7104

Barometer reading, 30.10

State of sky, Blue light clouds

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

Rain, no

Direction of surface current, 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. Comm. R. G. Davenport, USNRC

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

NOTES RELATING TO STATION NO. 106

Gravel, sand
Red & brown algae } abundant
Coralline
Leptoclinum albidum.
Scrap. of sulph. sponge
Bryozoa Bluntiful.
Isopods - number.
Pelia, several
Nereids sp. several
L. tenebrosa (?)
Several pieces of sea pork.
Few cribrella.
small purple stain 1 to 2 1/2 in
~~[illegible]~~ Young cancer borealis
small crossers
Lepidodactus. Idotea
Crangon - Anachis
Haromathoe sp. (?)
E. anelepes
Rock ell. Z.
L. tricerata

6035

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 107 ~~2055~~

Date, Nov 15

Time of day, 2.40 ; of tide, 40m of flood

Locality, West of Pt. Judith.

Exact position, Pt. Judith Light E 1/2 D. 2.25 miles mag

Depth, 7 fathoms

Nature of bottom, Sandy & gravelly

Dredging instrument used, Dredge

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

Temperature of air, 48° therm. No., 7297

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.0°

" at depth of fathoms, "

" at bottom, 1.023 " 10.4°

Number of salinometer, 7104

Barometer reading, 30.19

State of sky, Blue light Cloud

Direction of wind, N.W ; force, 4

Rain, no

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

" 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. H. Mulligan Pharmacist USN

NOTES RELATING TO STATION NO. 107

Sandy about same as preceding
Sporobs, Algae, Nerids
L. triceriata, Mactra,
Isopods Young cancer irroratus
Hemathoe, Crangon Bryozoa
Tritia, Young cancer borealis
Cap. formicata & glacia
Sand dollar
Astyrus, L. tenebrosa (?)

6036

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 108 ~~2036~~

Date, Nov. 15-98

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

Locality, West of Pt. Judith.

Exact position, Pt. Judith Light

N x N 3/4 N 3 miles mag.

Depth, 5 3/4

Nature of bottom, Gravel + Sand

Dredging instrument used, Dredge

Direction of drift, N 1/2 N ; distance, 1/4 mile

Temperature of air, 47° therm. No., 7397

" 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 " 10.1°

Number of salinometer, 7104

Barometer reading, 30.11

State of sky, Blue light - clouds

Direction of wind, N.W ; force, 4

Rain, no

Direction of surface current, E ; 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, Lt Comm

R. G. Davenport. Nsn

Name and position of observer,

J. D. Milligan

Pharmacist Nsn

NOTES RELATING TO STATION NO. 108

Chona - pieces numerous
Pelia. Crangon.
C. Fornicata & plasia
Hypnastinea
E. Bernhardus in l heros
Isopods. Idotea.
L. Incerata with E. longicarpus
Empty skate egg.
Coralline & Bryozoa
Red algae
small cancer irrorata
" " boreales
Neverita shell.
Cribrella astarte castanea
8 Forbesii from 1/4 to 2 1/2 inches
L. Incerata. Nereids. sp.
Few small cumacea
numerous small amphipods
1 small Gambbyin

6037

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 109 — ~~2037~~

Date, Nov. 15. 1898

Time of day, 3.15 pm ; of tide, 1/4 h of flood

Locality, West of Pt. Judith

Exact position, Pt Judith Light - E x S. 3.75 miles mag

Depth, 5 3/4 fathoms

Nature of bottom, Gravel & sand

Dredging instrument used, 10 feet Trawl

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

Temperature of air, 47° Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, ~~1.023~~ "

Density at surface, 1.023 temp., 10.7° C

" at depth of fathoms, "

" at bottom, 1.023 " 10.8° C

Number of salinometer, 7104

Barometer reading, 30.11

State of sky, Blue light Cloud

Direction of wind, N W ; force, 4

Rain, no

Direction of surface current, 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. Commr R. G. Dannefeld USN

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

NOTES RELATING TO STATION NO. 109

2 squirrel hake
2 smooth flounders
1 18 spine sculpin
3 l. heros. lin
E. Bernhardus
Anemone. Lepidonotus sarsi
Algae, Bryozoa, + coralline
Small cunners, Spirobis
Few crangon
Small pieces of sea pork
Leptoclinum
L. tenebrosa = L. vinata abundant on kelp
1 Cancer borealis young.
1 Green urchin
Cribrella. Anachis shells
5 Forbes stars 1 to 2 m.
2 purple stars
Idotea. Eurosalpinx with 5 lungs
Pelia. Mactra ying
Tritia, astarte castanea.
E. Anelepes
Astyrus.

Very rocky bottom. Trawl fouled & had to be hauled. 6038

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 110 — ~~2038~~

Date, Nov. 15 — 98

Time of day, 3.30 ; of tide, 1/2 hr of flood

Locality, West of Pt. Judith.

Exact position, Pt Judith Light E. 3/4 S. 4.50 miles mag

Depth, 5 fathoms.

Nature of bottom, Rocky

Dredging instrument used, 10 feet beam trawl

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

Temperature of air, 47 therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 11.0°C

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 10.9°C

Number of salinometer, 7104

Barometer reading, 30.11

State of sky, Blue, light-clouds

Direction of wind, N.W ; force, 4

Rain, No

Direction of surface current, -E ; force, 1/4 knot

~~" of bottom " ; force,~~

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

Service to which attached, Fish Commission

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

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

NOTES RELATING TO STATION NO. 110

Kelp with L. tenebrosa (?)
Bryozoa. Corallina
Few small ~~clusters of~~ nudibranchs eggs
Red & brown Algae
Few small cunners
5 Purple stars. ~~About~~ 1 in to 2 1/4
Rock eel. Z (?)
Spirobis,
1 Forbesii star. About mid

6039

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 111 — ~~2039~~

Date, Nov. 16-98

Time of day, 8.55 am ; of tide, High water

Locality, ~~Castl~~ Narra Gansett Bay

Exact position, Castle Hill Light,

N.N.E. - 7/10 mile mag

Depth, 10 to 20 fathoms

Nature of bottom, Hard

Dredging instrument used, 7 feet beam trawl

Direction of drift, S. 3/4 W. ; distance, 3/8 of mile

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

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.022+ temp., 12.2° C

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 12.0° C

Number of salinometer, 7104

Barometer reading, 30.26

State of sky, Blue - hazy

Direction of wind, N.W ; force, Light

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. D. Milligan

Pharmacist. USNavy

NOTES RELATING TO STATION NO. 111

1 Winter skate
Several winter flounders
few window pane
Ser. Raia erinacea
1 - 18 spine sculpin
1 good sized cunner
1 young sea robin
1 squirrel haze
Cardiacum pinnulatum
Pipe fish
Pelia mutica, Tritia
E. Longicaspus in tritia & L. tricenata
Few Crangon.
10 Maroon stars 2 to 4 inches
1 Pandalus annulicornis

6040

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 112 — ~~2040~~

Date, Nov. 16th 1898

Time of day, 9.35 a.m.; of tide, 3/4 h of ebb.

Locality, Narragansett Bay

Exact position, Castle Hill Light bt

S. E. 3/8 E. .12 of mile mag.

Depth, 26 Fathoms

Nature of bottom, Hard smooth bottom

Dredging instrument used, 7 feet beam trawl

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

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

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.022+ temp., 11.2°

~~" at depth of fathoms,~~ "

" at bottom, 1.023+ " 11.0°

Number of salinometer, 7104

Barometer reading, 30.27

State of sky, Blue hazy

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

Rain, no

Direction of surface current, 0 ; force, 0

~~" of bottom " ; force,~~

Name of vessel, US 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. 112

Crangon numerous
Squirrel hake several
Raia Ermacea. 1 Conger eel
~~Water flounder~~
1 Windowpanes. Serpula.
Pandalus numerous.
Hyppolite. Panopeus
1 Cunner Red Algae.
Diaphasia? Spirobis
Lammeria Bryozoa.
Penaria hydroid. Coraline.
Old skate egg with hydroid
1 Brittle star. Lepidonotus
Cancer borealis. Cynthia carneal?
Hydroids, small nudibranch several
Modiola Mod. shell. Cribrella
Sponge. Heteromysis formosa.
1 Balanus. Sea pork
Purple stars small, 1½ to 4 in
Idotea Amphipods
Caprella Young grubby
Pipe fish, 1 small pecten tenuis
1 mottled rock eel (?)
Anemone Sp. nitridum
E. Longicarpus in tritia

6041

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 113 — ~~7041~~

Date, Nov 16-98

Time of day, 10, 10 am ; of tide, 1½ h. of ebb.

Locality, Narragansett Bay.

Exact position, Rose Isld Light

N x E. ¼ E. .7 of mile mag.

Depth, 23 fathoms

Nature of bottom, Smooth, hard

Dredging instrument used, 7 feet beam trawl

Direction of drift, S.S.E. ¼ E. ; distance, 3/8 of mile

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

" ~~of surface water,~~ "

" ~~at depth of~~ fathoms, "

" ~~at bottom,~~ "

Density at surface, 1,022 temp., 16.

" at depth of fathoms, "

" at bottom, 1,023 " 12.2°

Number of salinometer, 7104

Barometer reading, 30.28

State of sky, Blue hazy

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

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. USNavy

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

NOTES RELATING TO STATION NO. 113

3 Raia Ermacea
8 squirrel hake
1 young silver hake ? 1 Red Algae
1 cancer borealis large
1/2 " " irroratus young shed.
Panopeus, plentiful Pandalus with eggs
Crangon & hyppolite plentiful
Young cancer borealis
small Arbacia. Diaphasia plentiful
Spirobis. Chondrus in fruit.
1 large sciona tenella in bottle
1 small buccinum. Bryozoa
Cynthea carnea. Anomia acculeata
small membranipera, Nitridium
Cribrella. Crepidula plana.
Obelia. Remnants of Bugula
Shells of cyclocardia
Modiola corrugata ? 1 1 pipe fish
1 young sea robin! Brittle star
1 small green urchin
Dead shell of pecten ten.
Botryllus. Mod. Modiola.
Purple stars 1/2 to 2 in.
Lepidonotus small undibranchs small
Anachis. Few amphipods
E. Longicarpus in tritia
Idotea. Tortia alvi.
1 conger eel small

604

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 114 — ~~2042~~

Date, Nov. 16-98

Time of day, 11. am. ; of tide, 2 h. of ebb.

Locality, Narragansett Bay

Exact position, Gould Isld Light

N. S. W. 1.28 mile mag.

Depth, 9 3/4.

Nature of bottom, Muddy & shelly

Dredging instrument used, 7 feet brain trawl

Direction of drift, S. W. 3/8 S. ; distance, .26 of mile

Temperature of air, 54° Fahr. therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.021 + temp., 10.8° C

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 11.° C

Number of salinometer, 7104

Barometer reading, 30.28

State of sky, Blue. Lt. clouds.

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

Rain, No —

Direction of surface current, 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. USNRS

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

NOTES RELATING TO STATION NO. 114

3 Raia Erinacea - 1 small.
2 Cancer irroratus.
1 - 4 spot flounder
3 window pane
Shells of mya
Lucina filosa.
1 large cycotypus liv
1 " hake.
Astarte yellow (?) ~~astarte~~
Pandalus. Astarte undatum.
1 young squid hake
1 " silver (?)
Oyster shells - tritia
L. littoria. Clidiophora.
Yoldia. cyclocardia Callista convex
E. in longicarpus in tritia and
l. triceriata, l. littoria.
+ 100 Forbesii stars.
1 large pipe fish - 1 trophonia
Cerdeum pinnulatum
Liv Yoldia, tritia, cyclocardia.
l. triceriata. nassa vivex (?)
Few Anelids. 1 young cancer irroratus
Crangon few. Cistenides
Few Idolea. ~~as, F~~

6043

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 115 — ~~2043~~

Date, Nov. 16 - '98 -

Time of day, 11.25 am ; of tide, 2 1/2 h. of ebb.

Locality, ~~Narragansett Bay.~~

Exact position, Light N. pt. Canonicut - Isld

W. N. W. 1/8 W. 2.50 miles mag.

Depth, 15 fathoms

Nature of bottom, muddy, shelly

Dredging instrument used, 7 feet beam trawl

Direction of drift, S. W. 5/8 D. ; distance, .3 of mile

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

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.021 temp., 10.1° C

~~" at depth of fathoms, "~~

" at bottom, 1.022+ " 10.5° C

Number of salinometer, 7104

Barometer reading, 30.26

State of sky, Blue light clouds

Direction of wind, Calm ; force, ~~no light~~

Rain, no —

Direction of surface current, 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 USNRC

Name and position of observer, J. W. Milligan Ph. USN

NOTES RELATING TO STATION NO. 115

2 Raia erinacea
2 squirrel hake
1 conger eel -
1 Holothurian
1 squilla.
3 Cancer borealis
3 " irroratus
1/2 bush. Forbes stars.
Yoldia oyster shells. 1 pecten tin.
Mya. Clidiophora. Yellow astarte
Venus. Tritia, Callista
E. Longicarpus in tritia + l. littoria
l. triceriata, lucina filosa
Modiola corrugata (?) Cap. fornicata
Few aurelids 1 young sea robin
Nucula. Crangon plumbeus
Peryploma, Rock eel. (?)
Cardium pinnulatum shells
Yoldia alive, neverita with E.
longicarpus, Few cerebrach. sp.
nassa vivex (?)

Trawl fouled the bottom. Had to take it up 6044

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 116 — ~~2044~~

Date, Nov. 16 – 1898

Time of day, 11.55 Am; of tide, 3 h. of ebb.

Locality, Narragansett Bay.

Exact position, Sand point light N.N.E. 3/8 E. 1.37 miles mag.

Depth, 18 fathoms

Nature of bottom, Clayey

Dredging instrument used, 7 feet beam trawl

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

Temperature of air, 58° 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 " 11.0°C

Number of salinometer, 7104

Barometer reading, 30.25

State of sky, Blue light clouds

Direction of wind, Calm; ~~force.~~

Rain, no

Direction of surface current, 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, USN

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

NOTES RELATING TO STATION NO. 116

1 ~~7~~ Cancer irroratus
2 " borealis.
number of pandalus.
1 Labinia, Pelia
1 sycotypus large.
Mus shell. Callista. Astarte radiata
Few Anelids. Tritia
Oyster shells. Capridula shells
Brittle star. Small perlin lin.
Dev. netridium
2 young squirrel hake.
Several large clusters of chalina
Lepidonotus. Crangon
Fock ul? Bryozoa.
Anomea aculeata.
2 tubes of p. oculifera (?)
Cynthea carneum (?)
a little hydroid
Few Anomea shells. Spirotis

6045

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 117 — ~~2045~~

Date, Nov. 16—1898.

Time of day, 1.14 P.M.; of tide, 4½ h of ebb

Locality, Narragansett Bay

Exact position, Sand Point Light.

N x W. 3/8 W. .68 mile mag

Depth, 13½ fathoms.

Nature of bottom, Soft, Parts hard.

Dredging instrument used, 7 feet beam trawl

Direction of drift, S 7/8 W.; distance, .37 of mile

Temperature of air, 50° fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.020 temp., 10.2° C

~~" at depth of fathoms, "~~

" at bottom, 1.022+ " 11.0 "

Number of salinometer, 7104

Barometer reading, 30-21

State of sky, Blue, light clouds

Direction of wind, S.S.E; force, 2

Rain, No.

Direction of surface current, S.S.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, Lt. Comdr R. G. Davenport, USNavy

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

NOTES RELATING TO STATION NO. 117

9 Raia Ermacea, fur squirrel hair
1 Blue crab,
1 4 spot flounder small
3 window pane "
Cluster of Chalina, Sea-weed.
Modiola Corrugata.
Crangon. Pancopeus
L. tricerata - Yoldia
Anemone, methidium
E. Longicarpus Tritia
Botryllus Clidiophora.
Nucula. Few pandalus.
Callista Corvera.
Shells of clidiopera, mulinea
Cap. fornicata, Few anelids.
125 Forbesii stars.
E. Longicarpus in tritia & l. littoria
Rock eels ?,
Live Yoldia, tritia - callista.
Lepidonotus.

6046

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 118 — ~~2046~~

Date, Nov. 16-98

Time of day, 1.40 pm ; of tide, 4 3/4 h of ebb.

Locality, Narragansett Bay.

Exact position, Sand Point ~~Light~~ S. W x W 1/2 W. .5 of mile mag.

Depth, 15 fathoms

Nature of bottom, muddy - shelly -

Dredging instrument used, 7 feet beam trawl

Direction of drift, S x W. 3/4 W ; distance, .35 of mile

Temperature of air, 50° Fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.020 temp., 9.8° C

~~" at depth of fathoms,~~ "

" at bottom, 1.021 + " 11.3° C

Number of salinometer, 7104

Barometer reading, 30.20

State of sky, Blue - light clouds

Direction of wind, S.S.E ; force, 2

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, J. D. Milligan Pharmacist - USNavy

NOTES RELATING TO STATION NO. 118

E. Pollicaris in sycotypus shell
C. plana
✓ Cancer irroratus
numerous Astarte ~~castanea~~ undatum
Small white holothurians, several
E. Longicarpus in tritia & L. triceriata.
Trophonia (identified) Crangon
✓ Sycotypus lin, Tritia
Fulgus shell, Callista convexa
L. triceriata. Clidophora
Shells of cyclocardia, anomea shells
Panopeus. Mytilus shells
Shells of mya & anomea. Yoldia
Lin callista, Few anelids
Small clusters of chalina
Cardenum pinnulatum, C. fornicata
Small pecten ten. Common pecten shells
L. littoria shells
75 Forbesii stars
1 pipe fish
1 young squirrel hake

Finer material not fully looked over

6047

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 119 — ~~2047~~

Date, Nov. 16 - 1898

Time of day, 1.55 ; of tide, 5h 7 ebb.

Locality, Narragansett Bay

Exact position, Sand Point Light.

S. W. 1.75 miles mag

Depth, 11 fathoms

Nature of bottom, Muddy & Shelly

Dredging instrument used, 7 feet beam trawl

Direction of drift, S.W.x W. 3/8 W. ; distance, .28 of mile

Temperature of air, 50° Fahr. therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.020 temp., 9.8° C

~~" at depth of fathoms,~~ "

" at bottom, 1.023 " 10.7° C

Number of salinometer, 7104

Barometer reading, 30.20

State of sky, Blue, light clouds

Direction of wind, S.S.E ; force, 2

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, USNRC

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

NOTES RELATING TO STATION NO. 119

E Longicarpus in trilia shell
Dermal Raia Erinacea
Few winter flounder
1 Window Pane
1 Cancer Irroratus
about 100 Trilia Stais 1/5 6 in. mostly small
shells of cystu, mya, common pecten.
Venus, anomea, Tardulus.
neverita, mytilus, Mulinea
Young Lake.
Microsciona 1 piece.
Crangon, Ilyanassa
shells of Cochlodesma Leanum

6048

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 120 — ~~2048~~

Date, Nov. 16-1 898

Time of day, 2.30 pm ; of tide, 5¼ h of ebb.

Locality, Narragansett Bay

Exact position, Sand Point Light S. S. W. 1.6 miles mag

Depth, 3¾ fathoms.

Nature of bottom, Soft mud.

Dredging instrument used, 7 feet beam trawl

Direction of drift, S. W. 3/8 S ; distance, .25 of mile

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

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.020 temp., 9.8°C

~~" at depth of fathoms,~~ "

" at bottom, 1.021 " 10.2°C

Number of salinometer, 7104

Barometer reading, 30.20

State of sky, Blue cloudy

Direction of wind, S.S.E ; force, 2

Rain, no

Direction of surface current, S x 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, Lt. Comdr R. G. Davenport, USNAV

Name and position of observer, J. H. Mulligan R. USNAV

NOTES RELATING TO STATION NO. 120

25 Window frame
20 Winter flounder
1 Cancer Irroratus
Several Raia Erinacea. sev. small
Pipe fish
Young sq. hake. Serpula.
Membranipora. common pecten
venus. oyster. cyclocardia.
Lin skate egg. C. fornicata.
Petricola anomea. Crangon
Callista convexa
3 Forbesii Stars
Rock eels (?) Anachis.
Tritia. Clidophora
Illyanassa, Capridula convexa
Urosalpinx shell.
L. triceriatea E. anelepes.
L. littoria with E. longicaspus

6049

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 121 — ~~2049~~

Date, Nov. 16. 1898

Time of day, 2.50 ; of tide, Low water,

Locality, Narragansett Bay.

Exact position, Sand Point Light — S. x W. 7/8 W. 2.15 miles may

Depth, 4 fathoms

Nature of bottom, Muddy,

Dredging instrument used, 7 feet beam trawl

Direction of drift, S. 7/8 W. ; distance, .3 of mile

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

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.020 temp., 10.2°C

~~" at depth of fathoms, "~~

" at bottom, 1.021 " 11°C

Number of salinometer, 7104

Barometer reading, 30.20

State of sky, Blue, light clouds

Direction of wind, S. S. E ; force, 2

Rain, no

Direction of surface current, S. S. 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, Lt. Comdr R. G. Davenport Usnav

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

NOTES RELATING TO STATION NO. 121

5 Raia, erinacea. & 1 small
8 Window pane flounder
4 Winter "
about 50 small tubes stars 1/2 to 4 in
Shells of Lucina filosa.
Sulphur sponge.
Escharella. Nipula.
Membranipora.
Hydrachtinea
Cidrophora shells. Ripter shells.
Anomea shells. Cynthia partita.
C. fornicata shells. L. littoria.
Astarte undatum Scapharca
E. Longicaspus. Common pecten.
Mod corrugata. Liv tritia.
Balanus. Upleura caudata liv
Yellow astarte. Liv tritia
Callista. C. shells pennulatum
Trophonia. Crangon
Pipe fish. Few amphipods
A few large shells of Periploma
Conradi P.

Trawl taken up in 208 fath
temp bottom 58°

643 Density 1031 6050

RECORD OF DREDGING,

Trawl badly torn and little material obtained.

TEMPERATURE AND DENSITY.

Station No. 122 - ~~2050~~

Date, Jan. 13. 1899

Time of day, 10.45 am ; of tide,

Locality, Off entrance San Juan Harbor

Exact position, Old fort bearing D½ W. 1¼ miles Battery on El Boqueron S.E.x E½E distant 3¼ miles. mag.

Depth, 91 fathoms

Nature of bottom, Sand mud

Dredging instrument used, 7 ft. beam trawl

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

Temperature of air, 82° therm. No., 7397

" of surface water, " 77°

" at depth of 46 fathoms, Negretti " 79°

" at bottom, " 79°

Density at surface, 1023 temp., ~~1.023~~

" at depth of 1024 fathoms, " ~~1.024~~

" at bottom, 1026 " ~~1.026~~

Number of salinometer, 7164

Barometer reading, 30.03

State of sky, Blue Light clouds

Direction of wind, E.D.E ; force, ½

Rain, No

Direction of surface current, ; force,

Light swell from Eastward

" 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. Cond.

R. G. Davenport, USNavy

Name and position of observer,

J. D. Milligan

Pharmacist. USNavy

NOTES RELATING TO STATION NO. 122

Trawl badly torn, and little obtained.
A few specimens brittle stars,
1 fish. Serpens.
1 piece of coral

Dredge hauled in 30 minutes
101 fathoms temp 69°
Density 1,024 – 7164 sal.
6051

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 123 – ~~2051~~

Date, Jan. 13 1899

Time of day, 1.20 ; of tide,

Locality, Outside Entrance San Juan Harbor

Exact position, ~~Position 1 Cabras Joint 5 1/2 hr. 1 mile~~ ~~Fort Point & El Boqueron E.S.E 3 1/4 miles~~ Position 2 Tangle taken up. Cabral old fort D. W 1/2 S. 1 1/2 miles & El Boqueron D.E. 1/2 E. 2 3/4 miles

Depth, 45 fathoms.

Nature of bottom, Sandy mud.

Dredging instrument used, Tangle

Direction of drift, E 3/4 N. ; distance, 3/4 mile

Temperature of air, 84° fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, " 77

Density at surface, 1023 temp., 24° C.

~~" at depth of fathoms, "~~

" at bottom, 1027 " 77° fahr

Number of salinometer, 7164

Barometer reading, 30.02

State of sky, Blue & cloudy,

Direction of wind, E.N.E. ; force, 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. Milligan Pharmacist USN

NOTES RELATING TO STATION NO. 123

Tangle used.

sounded in 187 fathoms,

Dredge taken up in 335 fath.
Temp. 63
Density. 1.0243

6052

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 124 — ~~2052~~

Date, Jan 13th 1899

Time of day, 3.15 ; of tide,

Locality, Outside Ent. San Juan Harbor

Exact position, Old Fort O. W. 3/4 W. 5 1/4 miles
Fort on El Bequeron O x W 1/2 W. 3 miles

Depth, 310 fathoms

Nature of bottom, Sandy mud.

Dredging instrument used, ~~Trawl~~ Dredge

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

Temperature of air, 79° fahr therm. No., 7397

" of surface water, " 58.5

" at depth of fathoms, "

" at bottom, "

Density at surface, 1023 temp., 26.5° C

~~" at depth of fathoms, "~~

" at bottom, 1.028 " ~~23.0° C~~

Number of salinometer, 7164

Barometer reading, 29.98

State of sky, Blue, light clouds

Direction of wind, E.N.E. ; force, 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 Com.

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

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

NOTES RELATING TO STATION NO._____

6053

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 135 — ~~2053~~

Date, Jan. 16th 1899

Time of day, 10.30 ; of tide, Ebb.

Locality, San Juan Harbor.

Exact position, N. W. angle of Morro castle 1/4 mile

Depth, 4 fathoms to 7 1/2 fathoms

Nature of bottom, Sand (fine)

Dredging instrument used, Dredge

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

Temperature of air, 77° Fahr. therm. No., 7397

" ~~of surface water,~~ "

" ~~at depth of fathoms,~~ "

" ~~at bottom,~~ "

Density at surface, 1.023 temp., 76.5

~~" at depth of fathoms,~~ "

" at bottom, 1.0242 " 76.°C

Number of salinometer, 7164

Barometer reading, 30.08

State of sky, Blue, light clouds.

Direction of wind, East ; force, 4

Rain, No —

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

" of bottom " ; force,

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

Service to which attached, Fish Com.

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

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

NOTES RELATING TO STATION NO._____

6054

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 126 — ~~2054~~

Date, Jan. 16th 1899

Time of day, 11 00 am; of tide, Ebb.

Locality, San Juan Harbor

Exact position, N. W. angle of Morro Castle 3/8 of mile

Depth, 4½ fath to 5½

Nature of bottom, Sand & mud.

Dredging instrument used, Tangle & dredge

Direction of drift, N. ; distance, ¼ mile

Temperature of air, 77° Fahr. therm. No., 7397

" ~~of surface water,~~ "

" ~~at depth of~~ fathoms, "

" ~~at bottom,~~ "

Density at surface, 1.023 temp., 25° C

~~" at depth of fathoms,~~ "

" at bottom, 1.025 " 25.2° C

Number of salinometer, 7164

Barometer reading, 30.07

State of sky, Overcast.

Direction of wind, East. ; force, (Squally) ~~5~~

Rain, No

Direction of surface current, N. ; force, ¼ knot

" of bottom " ; force,

Name of vessel, N. S. F. C. S. "Fish Hawk"

Service to which attached, Fish Com.

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

Name and position of observer,

J. D. Millyan

Pharmacist NSG

NOTES RELATING TO STATION NO._____

33 fathom
Taken up in 130 fath. 6055
Temp. 66° Fahr = 25°C
Density. 1.0245

643

RECORD OF DREDGING.

Surface Den. 1.023 + 26°C temp.

TEMPERATURE AND DENSITY.

6

Station No. 127 — ~~2055~~

Date, Jan. 18th 1899

Time of day, 11.15 am; of tide,

Locality, Off Aguadilla. P.R.

Exact position, ~~Rt~~ O.W. point of Descocheo Isld W x S. 1/4 S. 18 1/4 miles. Pt de Bouguen Lt. House N.E. x N. 3/4 N. 3 1/4 miles

Depth, 137 fathoms.

Nature of bottom, ~~Rocky~~ Sand & Mud & Shell

Dredging instrument used, Dredge & tangle.

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

Temperature of air, 82° Fahr. therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 26.2°C

~~" at depth of fathoms, "~~

" at bottom, 1.0248 " 24°C

Number of salinometer, 7164

Barometer reading, 29.98

State of sky, Blue, light cloud.

Direction of wind, E ; 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 Com.

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

Name and position of observer, J. D. Mellizan Pharmacist, USNOS

NOTES RELATING TO STATION NO._____

Taken up in 237 fath.
Bottom Temp 60° fahr. 24°C
" Density 1.0242
Surface " 1.023 6056
" Temp. 26°C

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 128 7 — ~~2056~~

Date, Jan. 18. 1899.

Time of day, 1.20 ; of tide,

Locality, Off Aguadilla. P.R.

Exact position, San Carlos church in Aguadilla ~~[illegible]~~ D.E×E 3/4 E 3 miles. Pt. de Bouguer Light House N.E. 1/2 E. 3 1/4 miles.

Depth, 248 fath.

Nature of bottom, Sand, mud & shells.

Dredging instrument used, Dredge & Tangle.

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

Temperature of air, 87° fahr therm. No., 7397

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023.2 temp., 26.5°C

~~" at depth of fathoms, "~~

" at bottom, 1.025 " 24.5°C

Number of salinometer, 7164

Barometer reading, 29.93

State of sky, Blue light clouds.

Direction of wind, E, ; 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 Com.

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

Name and position of observer, J. A. Milligan Pharmacist USNA

NOTES RELATING TO STATION NO. 128

[redacted]

Taken up in
Top Density 1.023 Bottom 1.028.
Bottom Temp. 25.5° C Top 25.5° C

643 6057

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 8 129 } Chart no. 372 ~~2057~~

Date, Jan. 19. 1899

Time of day, 2.15 p.m.; of tide,

Locality, Harbor of Mayaguez, P.R.

Exact position, Custom House. E ½ N. 3/8 mile
Pt. de Algarrobo N.W. x W. ¼ N. 1½ miles

Depth, 4½ fathoms

Nature of bottom, Muddy (tenacious)

Dredging instrument used, Dredge & Tangle

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

Temperature of air, 83.5° fahr therm. No., 1.013 ~~1397~~

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 25° C

~~" at depth of fathoms, "~~

" at bottom, 1.028 muddy water " 25.6° C

Number of salinometer, 7164

Barometer reading, 29.92

State of sky, Blue, light clouds.

Direction of wind, S. E.; 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 Comm.

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

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

NOTES RELATING TO STATION NO._____

Taken up in 7 fathoms.
6058 30 minutes

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 9 130 Chart no. 372 ~~2058~~

Date, Jan. 19th 1899

Time of day, 3 pm. ; of tide,

Locality, Mayaguez Harbor.

Exact position, Custom House E x S. 1/2 miles
Pt. del Algarrobo W x W. 1/8 miles

Depth, 7 1/4 fath.

Nature of bottom, Muddy

Dredging instrument used, 9 feet beam trawl.

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

Temperature of air, 79° fahr therm. No., ~~7397~~ 1.013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.025 temp., 26° C

" at depth of fathoms, "

" at bottom, 1.025 " 26° C

Number of salinometer, 7164

Barometer reading, 29.89

State of sky, Blue - light clouds.

Direction of wind, S. E. ; 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, U.S.Navy

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

NOTES RELATING TO STATION NO._____

6059

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 131 – Chart no. 372 ~~2059~~

Date, Jan. 19. 1899.

Time of day, 4 p.m. ; of tide,

Locality, Mayaguez Harbor –

Exact position, Custom House E. 1/4 S. 2 miles

Pt. del Algarrobo N. x E. 3/4 E. 1 3/8 miles

Depth, 7 to 10 fathoms.

Nature of bottom, Muddy.

Dredging instrument used, 9 feet beam Trawl,

Direction of drift, South ; distance, 5/8 mile

Temperature of air, 82° fahr, therm. No., 1.013 / 1597

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0232 temp., 26° C

~~" at depth of fathoms, "~~

" at bottom, 1.027 " 27° C

Number of salinometer, 7164

Barometer reading, 29.89.

State of sky, Blue, light-clouds.

Direction of wind, S.E. ; 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. D. McMillan Pharmacist, USNavy

NOTES RELATING TO STATION NO._____

6060

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

~~2060~~

Station No. 132 - Chart no. 372

Date, Jan. 19 /99

Time of day, 4.20 ; of tide,

Locality, Mayaguez Harbor

Exact position, Custom House Ex S. 1/4 O. 2 1/4 miles

Pt. del Algarrobo N.E. 1/2 E. 1 1/8 miles

Depth, 19 fathoms

Nature of bottom, Muddy

Dredging instrument used, Dredge

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

Temperature of air, 84° fahr. therm. No., 1.013

" of surface water, "

" at depth of fathoms, "

" at bottom, ~~1.0245~~ "

Density at surface, 1.023 temp., 26.2°C

" ~~at depth of fathoms,~~ "

" at bottom, 1.0245 " 27°C

Number of salinometer, ~~29.90~~ 7164

Barometer reading, 29.90 —

State of sky, Blue - light - clouds

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

Rain, No —

Direction of surface current, 0 ; force, 0

" of bottom " ~~; force,~~

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

Service to which attached, Fish Comm.

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

Name and position of observer, J. D. Millyan Ph. USN

NOTES RELATING TO STATION NO._____

6061

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

2061

Station No. 133 – Chart no. 372

Date, Jan. 20th 1899.

Time of day, 9.50 ; of tide,

Locality, Harbor Mayaguez

Trawl went down Black bony, Entrance Harbor N x W 1/2 W 1/16 mile

Exact position, Pt. del Algarrobo E x N. 1/2 miles

Trawl came up Black bony entrance Harbor N x W 1/2 W 1/2 mile

12/6 Pt. del Algarrobo N. E x E 3/4 E. 1 1/4 miles

Depth, 18 fathoms

Nature of bottom, Sandy mud,

Dredging instrument used, 9 feet beam trawl,

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

Temperature of air, 78° fahr. therm. No., 1.013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 26.2°C

" at depth of fathoms, "

" at bottom, 1.024 " 26° C

Number of salinometer, 7164

Barometer reading, 30.02

State of sky, Blue, light clouds

Direction of wind, S. E. ; force, 1/4

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._____

Taken up at 25 fath.
Den. 1.0238
Temp. 26° C 6062

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY. ~~2062~~

Station No. 134 Chart no ~~372~~

Date, Jan. 20 - 1899

Time of day, 10.15 am. ; of tide,

Locality, Mayaguez Harbor.

Exact position, } Black buoy ent. harbor N.E. ½ E. ½ mile
Dredge came up } Red buoy " " E.S.E. ½ mile

25 to 30

Depth, 30 fathoms

Nature of bottom, Mud, sand & shells.

Dredging instrument used, Dredge

Direction of drift, S.x E. 3/4 E ; distance, ½ mile

Temperature of air, 78° fahr, therm. No., 1.053

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 26° C

~~" at depth of fathoms, "~~

" at bottom, 1.024 " 25° C

Number of salinometer, 7164

Barometer reading, 3000

State of sky, Blue, light clouds.

Direction of wind, Sat East ; force, ~~[illegible]~~ 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, U.S. Navy

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

NOTES RELATING TO STATION NO._____

Hauled in 75 fathoms.
Bottom Density 1.025
" Temp 68. fahr 6063

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY. ~~2063~~

Station No. 135 - Chart no 1001

Date, Jan. 20 - 1899.

Time of day, 10.45 ; of tide,

Locality, Mayaguez Harbor.

Exact position, Dredge came up Tangent of land South about Pt. Melonnes South - 14½ miles.

Pt. del Algarrobo E. 2¾ miles

Depth, 76 fathoms

Nature of bottom, ~~11 feet beam trawl.~~ rocky coral & sand.

Dredging instrument used, 9 feet beam trawl,

Direction of drift, South ; distance, 1 mile

Temperature of air, 78.° fahr. therm. No. 1.013

" ~~of surface water,~~ "

" ~~at depth of~~ fathoms, "

" ~~at bottom,~~ "

Density at surface, 1.0232 temp., 25.8° C

~~" at depth of fathoms, "~~

" at bottom, 1.025 " ~~68.5~~ 20.2° C fahr

Number of salinometer, 7164

Barometer reading, 29.99

State of sky, Cloudy

Direction of wind, S. E. ; 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. H. Milligan Pharmacist, USNAV

NOTES RELATING TO STATION NO._____

Taken up in 22 fathoms
Bottom Density 1.024
643 " Temp. 78° fahr. 25.6° C

RECORD OF DREDGING,

6064

TEMPERATURE AND DENSITY. ~~2064~~

Station No. 136 - Chart no 1001

Date, Jan. 20 - 1899

Time of day, 11.35 am ; of tide,

Locality, Mayaguez Harbor

Dredge came up. Tangent of land about St. Melones 2 - 13½ miles

Exact position,

22 to Custom House. E¼N. 4 3/8 miles

Depth, 33½ fathoms

Nature of bottom, Sand & mud

Dredging instrument used, Dredge

Direction of drift, South ; distance, ½ mile.

Temperature of air, 77° fahr therm. No., 1,013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1,023 temp., 25.7° C

~~" at depth of fathoms, "~~

" at bottom, 1.0243 negrette " ~~76.5°~~ 24.7 C fahr

Number of salinometer, 7164

Barometer reading, 29.98

State of sky, Overcast,

Direction of wind, P. E, ; force, 3

Rain, ~~No~~ Yes. light

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._____

Dredge taken up - caught
air bottom. 6065

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY. ~~2065~~

Station No. 137 - Chart no. 1001

Date, Jan. 20 - 1899

Time of day, 1.30 pm ; of tide,

Locality, Harbor Mayaguez

Exact position, Custom house. N. E. 3/4 E. 4 1/2 miles

Tangent of land south about Pt Melones. 11 miles

Depth, 4 to 6 fathoms

Nature of bottom, Coral bottom

Dredging instrument used, Dredge

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

Temperature of air, 80° fahr therm. No., 1.013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0232 temp., 26° C

" at depth of fathoms, " 20. C

" at bottom, 1.0236 " ~~68°~~ fah

Number of salinometer, 7164

Barometer reading, 29.91

State of sky, - Cloudy

Direction of wind, S.S.E. ; 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, USNRM

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

NOTES RELATING TO STATION NO._____

Hauled up in 161 fathoms
Density - 1.024 6066
Temp - 63° Fahr (25.4)

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY. ~~2066~~

Station No. 138 - Chart no 1001

Date, Jan. 20th 1898

Time of day, 7.35 ; of tide,

Locality, Mayaguez Harbor

Trawl came up

Exact position, Pt. Jiguero light bo. N½W. 9 miles

Pt del Algarrobo East 4 5/8 miles

Depth, 172 fathoms

Nature of bottom, Mud & Sand.

Dredging instrument used, 9 feet beam trawl

Direction of drift, S. ½ E. ; distance, 1 mile

Temperature of air, 78° therm. No. 1.013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 26° C

" ~~at depth of fathoms,~~ "

" at bottom, 1.0246 (61° Fahr) 23° C

Number of salinometer, 7164

Barometer reading, 29.90

State of sky, Blue, light clouds

Direction of wind, S. S. E. ; force, ½

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 Corp

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

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

NOTES RELATING TO STATION NO.

Taken up in 97 fathoms.
Bottom Density 1,024
643 " Temp. 68 Fahr. 26° C

RECORD OF DREDGING,

6067 TEMPERATURE AND DENSITY 2067

Station No. 139 - Chart no - 1001

Date, Jan. 20 - 1899.

Time of day, 3.40 pm; of tide,

Locality, Mayaguez Harbor

Dredge came up

Exact position, Pt. Jaguaras Lt. H. N. 10½ miles

Pt del algarrobo E x N. ½ N 5¾ miles.

Depth, 120 fathoms

Nature of bottom, Coral

Dredging instrument used, Dredge

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

Temperature of air, 84° fahr. therm. No., 1,013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 26.3° C

" at depth of fathoms, "

" at bottom, 1.025 " 24° C 65° fahr

Number of salinometer, 7164

Barometer reading, 29.90

State of sky, Blue light clouds.

Direction of wind, S. S. E ; force, 1/2

Rain, No.

Direction of surface current, — ; force, —

" of bottom " — ; force, —

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

Service to which attached, Fish Com.

Name and rank of commanding officer, Lt. Comdr

R. G. Davenport, USNRC

Name and position of observer,

J. D. Morgan

Ph. USNRC

NOTES RELATING TO STATION NO._____

Trawl came up in 224 fath.
Bot. Density 1.0248
Temp. 58° fahr + 24° C

643

RECORD OF DREDGING,

6068

TEMPERATURE AND DENSITY

Water Haul

Station No. 140 - chart no.

Date, Jan. 21 - 1899

Time of day, 12.55 ; of tide,

Locality, Mayagnez Harbor

Trawl came up Custom Ho. E.S.E. 1/2 E. 7 1/2 miles

Exact position,

Pt. Jiguero Lt. Ho. N 1/4 E. 8 1/4 miles

Depth, 237 fathoms

Nature of bottom, (?)

Dredging instrument used, 9 feet beam trawl

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

Temperature of air, 84.5° fahr therm. No., 1.013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 28° C

" at depth of fathoms, " 23.2° C

" at bottom, 1.0242 " 57° fahr

Number of salinometer, 7164

Barometer reading, 29.96

State of sky, Blue

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 Com

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

Name and position of observer, J. Dunnigan Ch. USN

NOTES RELATING TO STATION NO._____

Hauled up in 223 fathom
Density 1.0242
Temp 58° Fahr 23.7° C

643

RECORD OF DREDGING,

6069

TEMPERATURE AND DENSITY.

Station No. 141. Chart no. ~~2069~~

Date, Jan. 21 - 1899

Time of day, 2.10 pm; of tide,

Locality, Mayaguez Harbor

Exact position, Pt. Tigner Lt. Ho. N. 1/8 E. 8 1/4 miles
Whitelight Ho
Custom Ho. E. S.E. 1/2 E. 7 7/8 miles.

Depth, 231 fathom

Nature of bottom, Mud & Sand.

Dredging instrument used, Dredge

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

Temperature of air, 80° fahr. therm. No., 1.013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 26.6° C

" ~~at depth of~~ fathoms, "

" at bottom, 1.0242 " 23.5° C 56° fahr

Number of salinometer, 7164

Barometer reading, 29.92

State of sky, Blue

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 Com.

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

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

NOTES RELATING TO STATION NO._____

Trawl came up in 220 fathoms
Bot. Density - 1.0242
" Temp 60° Fahr 24° C

643

6070

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 12 Chart no. ~~2070~~

Date, Jan. 21 - 1899

Time of day, 3.15 pm ; of tide,

Locality, Mayaguez Harbor

When trawl came up

Exact position, Cushion Ho. E 5/8 O. 9 miles

Pt. Jiguero Lt. Ho. N. 7/8 E. 10 miles

Depth, 225 fathom

Nature of bottom, Rocky

Dredging instrument used, 9 feet beam trawl

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

Temperature of air, 78° Fahr. therm. No., 1.013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0233 temp., 26° C

~~" at depth of fathoms, "~~

" at bottom, 1.0242 " 24.6° C 59° Fahr

Number of salinometer, 7164

Barometer reading, 29.91

State of sky, Blue

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 Com.

Name and rank of commanding officer, Lt Condon

R. G. Dawenport, Wsuc.

Name and position of observer, J. D. Milligan

Pt. Wsuc.

NOTES RELATING TO STATION NO._____

Trawl came up in 163 fath.
Bottom Density ~~[illegible]~~ 1.025
Temp. 61.5 fahr 22.3° C

643 "

6071

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Trawl carried away, carrying 185 fathoms of wire

Station No. 143 ~~2071~~

Date, Jan. 24 1899.

Time of day, 11.50 ; of tide,

Locality, Outside Harbor Mayaguez

Trawl came

Exact position, Custom Ho. E. 3/8 N. 9 1/4 miles

Pt. de Jigneros L. ho. N x E. 11 1/4 miles

Depth, 192 fathoms

Nature of bottom, ? 1.1

Dredging instrument used, 9 feet beam trawl

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

Temperature of air, 84° therm. No., 1.013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 27° C

~~" at depth of fathoms,~~ "

" at bottom, 1.0245 " 25.5° C

Number of salinometer, 7164

Barometer reading, 29.98

State of sky, Blue.

Direction of wind, S. E. ; force, 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. Navy

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

NOTES RELATING TO STATION NO.

6072

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 144 - ~~2072~~

Date, January 25th 1897

Time of day, 1.20 ; of tide,

Locality, Off Pt. Molinas. D.S.W. of Boquerón when tangle came up

Exact position, Cabo Rojo Lt. Ho. D.O.E. 5¼ miles Bay

Off Guaniquilla N.N.E. 2¼ miles mag.

Depth, 7¼ fathoms

Nature of bottom, Coral, sand - shelly

Dredging instrument used, Tangle -.

Direction of drift, N. 3/8 E. ; distance, 1½ miles

Temperature of air, 76° Fahr. therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0228 temp., 26° C

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 26° C

Number of salinometer, 7164

Barometer reading, 29.96

State of sky, Cloudy, blue.

Direction of wind, S.E. ; force, 4

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.Navy -

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

NOTES RELATING TO STATION NO._____

net dropped from dredge from weight of material. - no record

6073

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 145 ~~2073~~

Date, Jan. 25th 1899

Time of day, 2.05 ; of tide,

Locality, Off Molinos,

Exact position, when dredge came up. Atalaya Rock. N¼E. 17½ m.

Pt. Guaniquilla D.xE. ¾E. 1⅛ miles

Depth, 8 fathoms

Nature of bottom, 1.1

Dredging instrument used, Dredge

Direction of drift, N.¼E. ; distance, ¾ mile

Temperature of air, 80° fahr. therm. No. 1.013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 26° C

" at depth of fathoms, "

" at bottom, 1.023 " 27° C

Number of salinometer, 7164

Barometer reading, 29.96

State of sky, Blue, light clouds

Direction of wind, D.E. ; force, 4

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. W. Milligan

Pharmacist Usnavy

NOTES RELATING TO STATION NO._____

6074

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 146 — ~~2074~~

Date, Jan 25th 1899

Time of day, 2.35 ; of tide,

Locality, Off Puerto Real

When taug bs came up

Exact position, Pt. Guainguilla S 1/4 E. 2 miles

Pt. Boca-prieta E 1/4 N. 1 mile mag

Depth, 8 1/2 fathoms

Nature of bottom, Sandy & Coral

Dredging instrument used, Tangle

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

Temperature of air, 82° fahr therm. No. 1.013

" ~~of surface water,~~ "

" ~~at depth of~~ fathoms, "

" ~~at bottom,~~ "

Density at surface, 1.023 temp., 26° C

~~" at depth of fathoms,~~ "

" at bottom, 1.023 " 26° C

Number of salinometer, 7164

Barometer reading, 29.94

State of sky, Blue, light clouds.

Direction of wind, S. E ; force, 1 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.A.V.

Name and position of observer, J. D. Milligan

Pharmacist. U.S.N.A.V.

NOTES RELATING TO STATION NO._____

6075

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 147 ~~2075~~

Date, Jan. 25 1899.

Time of day, 3.20 ; of tide,

Locality, Off Boca prieta

Exact position, Pt. Guaniquilla I.O.E. 3¼ miles

Fanduco Cay East 1¾ miles

Depth, 8½ fathoms

Nature of bottom, Sandy, coral.

Dredging instrument used, Dangle

Direction of drift, West ; distance, ¾ mile

Temperature of air, 80° fahr. therm. No., 1.013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0228 temp., 26.°C

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 25.5°C

Number of salinometer, 7164

Barometer reading, 29.93

State of sky, Blue, light clouds; light rain

Direction of wind, O.E. ; force, ½

Rain, ~~no~~ Light rain

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. Cmdr

R. G. Davenport, USNavy

Name and position of observer,

J. D. Milligan

Pharmacist USNavy

NOTES RELATING TO STATION NO._____

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

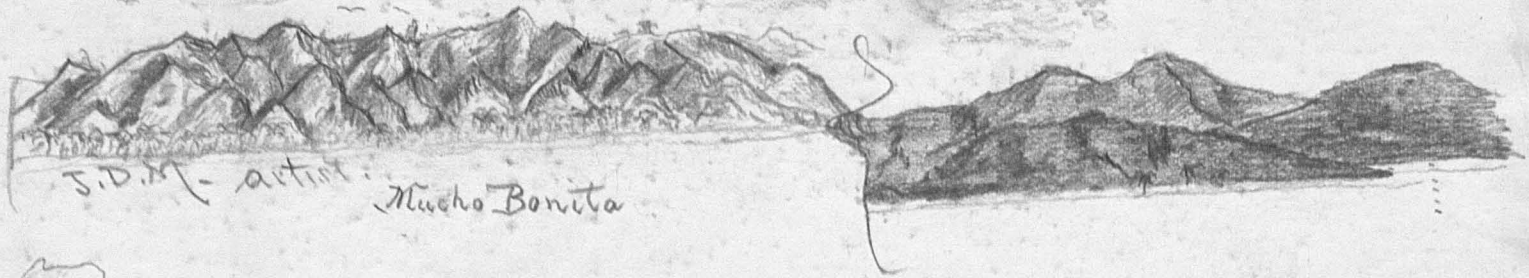
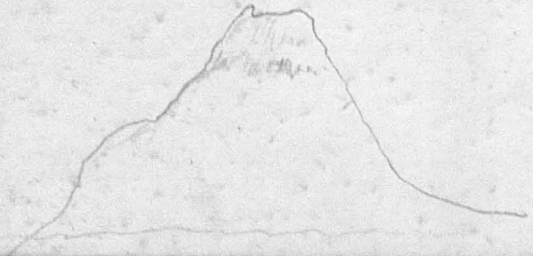
Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO._____


J.D.M. - artist.
Mucho Bonita