ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

1891

Numbers 1639 to 1659

in Ann Paxton

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 2

Date, 14 Jan

Time of day, 11 am ; of tide, Ebb

Locality, Off Cape Frio

Exact position,

Depth, 6.5

Nature of bottom, Coral

Dredging instrument used, dredge

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 24.16 temp., 51

" at depth of 5.5 fathoms, "

" at bottom, "

Number of salinometer, 5249

Barometer reading, 30.25

State of sky, Clear

Direction of wind, NE ; force,

Rain,

Direction of surface current, SE ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer, Forward on Port Side main deck

NOTES RELATING TO STATION NO.

Specimens of Coral, Sponge Scallops, Urdins, Gorgonia & Eel spawn attached to sponge Coral & Gorgonia

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 2

Date,

Time of day, 11.20 ; of tide,

Locality, 100 yds to U.S.W. of [illegible]

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,

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 2

Date, 14 Jan

Time of day, 11.45 PM ; of tide, Ebb

Locality, Off Cape Fear

Exact position,

Depth, 8

Nature of bottom, Coral

Dredging instrument used, dredge

Direction of drift, S ; distance,

Temperature of air, 54 therm. No. 5455

" of surface water, 52 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 23.5 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 5385

Barometer reading, 30.24

State of sky, Clear

Direction of wind, North ; force, light

Rain,

Direction of surface current, SW ; 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._____

Rl 3 pouse, 1 piece cord

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 3

Date, 14 Jan

Time of day, 245 PM of tide, Early flood

Locality, Off Cape Fear

Exact position,

Depth, 8 F

Nature of bottom, Coral

Dredging instrument used, Dredge

Direction of drift, N ; distance,

Temperature of air, 64 therm. No., 84

" of surface water, 62 " 5355

" at depth of fathoms, "

" at bottom, "

Density at surface, 23.5 temp., ~~52 1/2~~ 52

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 5355

Barometer reading, 30.24

State of sky, Clear

Direction of wind, N ; force,

Rain,

Direction of surface current, N ; 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.

C Star Fish. Sand & Gravel

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 4

Date, 14 Jan 89

Time of day, 2.10 PM ; of tide, Flood

Locality, Off Cape Fear

Exact position,

Depth, 7

Nature of bottom, Rock

Dredging instrument used, Small dredge

Direction of drift, S.W. ; distance,

Temperature of air, 53 therm. No., 5454

" of surface water, " 6385

" at depth of fathoms, "

" at bottom, "

Density at surface, 1024 temp., 52

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 6385

Barometer reading, 30.24

State of sky, Clear

Direction of wind, N ; force, light

Rain,

Direction of surface current, N ; 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.

Dredge fouled
Sponges Coral [illegible]

Winyah Bay So Carolina
To be plotted
A Tracings of large scale

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1639 (old 1700

Date, Jan 3 1891

Time of day, 10 a m ; of tide, 1st of Flood

Locality, 1/2 mile N of wharf on South

Exact position, Island

Winyah Bay South Carolina

Depth, 4 fathoms

Nature of bottom, Hard sandy bottom

Dredging instrument used, 7 ft Trawl and small oyster dredge

Direction of drift, ; distance,

Temperature of air, 54° therm. No. #

" of surface water, 46° " 1041

" at depth of fathoms, "

" at bottom, 48 1/2 "

Density at surface, 1000.8 temp., 46°

" at depth of fathoms, "

" at bottom, 1008.4 " 48

practically fresh

Number of salinometer, 7066

Barometer reading, 30.19

State of sky, Clear

Direction of wind, N ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, "Fish Hawk"

Service to which attached, U S F C

Name and rank of commanding officer, R R Platt

Lt Ugn

Name and position of observer, C H Cleveland

Mate Ugn

47

NOTES RELATING TO STATION NO. 1700

Trawl was torn badly & about a peck of small oysters was obtained

Winyah Bay So Carolina

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1640 (1701

Date, Jan 3 1891

Time of day, 10.45 AM; of tide, 1st of Flood

Locality, Winyah Bay - same

Exact position, locality as 1700 little near Inlet

Depth, 5 faths and 2 ft

Nature of bottom, Coarse brown sand

Dredging instrument used, Large & small Oyster Dredges

Direction of drift, ; distance,

Temperature of air, 48 therm. No., 7066

" of surface water, 47 " 1041

" at depth of fathoms, "

" at bottom, 50° " 7066

Density at surface, 10012 pr fresh temp., 47

" at depth of fathoms, "

" at bottom, 10154 1.0135 " 50

Number of salinometer, 7046

Barometer reading, 30,19

State of sky, Clear

Direction of wind, N ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U S F C

Name and rank of commanding officer, R Platt Lieut U S N

Name and position of observer, C H Cleaveland Mate U S N

NOTES RELATING TO STATION NO. 1701

about 3 bushel of small
dead oyster shells and
some large old ones
a little dead coral,
a few small oysters alive
and covered with small
barnacles

Winyah Bay So Carolina

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1641 1702

Date, Jan 3rd 1891

Time of day, 11 am ; of tide, 1st of Flood

Locality, Winyah Bay So Carolina

Exact position, as 1701

Depth, 4 fathoms + 3 feet

Nature of bottom, hard + shells

Dredging instrument used, Large + small Oyster Dredges used

Direction of drift, ; distance,

Temperature of air, 46 therm. No., 7066

" of surface water, 47 " 1041

" at depth of fathoms, "

" at bottom, 49.5 " 7041

Density at surface, 1.0012 for fresh temp., 47°

" at depth of fathoms, "

" at bottom, 1.0134 - 1.0115 cor " 49.5

Number of salinometer, 7046 surface 7050 bottom

Barometer reading, 3019

State of sky, Clear

Direction of wind, N ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U. S. F. C. Sch "Fishhawk"

Service to which attached, U. S. F. Com

Name and rank of commanding officer, R. P. Platt Lieut U.S.N.

Name and position of observer, C. H. Cleaveland Mate U.S.N.

NOTES RELATING TO STATION NO. 1702

about 4 bushel small
oysters same character
as 1701

Winyah Bay So. Carolina

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1542 (1703

Date, Jan 8 1891

Time of day, 11.30 am ; of tide, Flood

Locality, Winyah Bay directly East of wharf on South Island

Exact position, 400 yards distant

Depth, 5 fathoms + 1 foot

Nature of bottom, hard bottom

Dredging instrument used, Large & small Oyster dredges

Direction of drift, ; distance,

Temperature of air, 48 therm. No., 7066

" of surface water, 48 " 1041

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0052 for fresh temp., 48

" at depth of fathoms, "

" at bottom, 10124 Cor 1.0105 " 50

Number of salinometer, 7046-7050

Barometer reading. 3019

State of sky, Clear

Direction of wind, N ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fishhawk

Service to which attached, U S F C

Name and rank of commanding officer, R P Platt Lieut USN

Name and position of observer, C H Cleaveland Mate USN

NOTES RELATING TO STATION NO. 1703

About one bushel small oysters and dish shells and gravel

Winyah Bay S. Carolina

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1643 (1704

Date, Jan 8 1891

Time of day, 11.50 am; of tide, Flood

Locality, Winyah Bay - 600 yds West of upper wharf on Georgetown and 400 yds SSW of wreck buoy

Exact position,

Depth, 5 fathoms & 1 foot

Nature of bottom, hard sandy bottom

Dredging instrument used, Large & small Oyster dredges

Direction of drift, ; distance,

Temperature of air, 56 therm. No., 7066

" of surface water, 49 " 7041

" at depth of fathoms, "

" at bottom, 50.5 " 7041

Density at surface, 10094 Prac fresh temp., 49

" at depth of fathoms, cor "

" at bottom, 10200 1.018 " 50

Number of salinometer, 8, 7046 & 7041

Barometer reading, 30 19

State of sky, Clear

Direction of wind, N ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, "Fishhawk"

Service to which attached, U. S. F. C.

Name and rank of commanding officer, R Platt Lieut USN

Name and position of observer, C H Cleaveland Mate USN

NOTES RELATING TO STATION NO. 1704

Sand and dead shells and hard mud

Winyah Bay So Carolina

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1644 (1705

Date, Jan 3rd 1891

Time of day, 12 ; of tide, Flood

Locality, Winyah Bay So Carolina

Exact position, identically over the first position 1700

Depth, 4 fathoms + 5 feet

Nature of bottom, hard

Dredging instrument used, Large + small Oyster Dredges

Direction of drift, ; distance,

Temperature of air, 56.5 therm. No., 7066

" of surface water, 50 " 7041

" at depth of fathoms, "

" at bottom, 51' " 7041

Density at surface, 10082 prac fresh temp., 50'

" at depth of fathoms, " "

" at bottom, 10192 { cor 1.017 " 51

Number of salinometer, 7046 & 7041 b

Barometer reading, 3019

State of sky, Clear

Direction of wind, N ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, "Fish Hawk"

Service to which attached, U S F C

Name and rank of commanding officer, R P Platt Lieut USN

Name and position of observer, C H Cleveland Naturalist

NOTES RELATING TO STATION NO._____

Large Oyster Dredge was disconnected, by getting caught on the bottom and about 1/2 bushel gravel, & sand was obtained in the small Oyster dredge

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1645

Date, Juny 16 1891

Time of day, 10.05 ; of tide, Flood

Locality, Cooper River. SC. Cb.S

Exact position, Inside mouth of river 1/4 mile 300 yds from Marsh. south side

Depth, 2 Fthm 4 ft.

Nature of bottom, Soft.

Dredging instrument used, Oyster Dredge & Smt B.D

Direction of drift, up river ; distance, 400 yds.

Temperature of air, 62° therm. No., 7050

" of surface water, 49° " 7041

" ~~at depth of~~ fathoms, "

" at bottom, 51° "

Density at surface, 1.0226 } 1.0206 cor temp., 49°

" ~~at depth of~~ fathoms, "

" at bottom, 1.0228 } 1.0209 " 51°

Number of salinometer, 7046

Barometer reading, 30.24

State of sky, b.c.

Direction of wind, South. ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Stmr Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, R. Platt Lieut N.D.N

Name and position of observer, S. F. C. Smith Mate N.D.N.

NOTES RELATING TO STATION NO. 1645

Quantity of Blue mud & sand.
Small quantity of gorgonias
" " " sponge
and a few dead shells

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1646

Date, Jan 16 1891

Time of day, 10.16 am ; of tide, Flood.

Locality, Cooper River S. C. Bk 8

Exact position, 600 yds above Light House wharf lower entrance.

Depth, 5 fathm

Nature of bottom, Hard clay.

Dredging instrument used, Dredge with Sml B.S.

Direction of drift, Up river ; distance, 200 yds

Temperature of air, 64. therm. No., 7050

" of surface water, 50 " 7041

" ~~at depth of~~ fathoms, "

" at bottom, 50 "

Density at surface 1.0224 } cor 1.0205 temp., 50°

" ~~at depth of~~ fathoms, } ✓ "

" at bottom 1.0226 } 1.0207 " 50

Number of salinometer, 7046

Barometer reading, 30.24

State of sky, P.C.

Direction of wind, South ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Stmr Fish Hawk

Service to which attached, Fish Commission

Name and rank of commanding officer, R. Platt Lieut USN

Name and position of observer, S. F. L. Smith Chief USN

NOTES RELATING TO STATION NO. 1646

Quantity of Sand.
Gorgonias.
Small no of Crabs. lge & sml
Quantity of small dead
shells and sponge
1 Starfish
Pinnas
S

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1647

Date, Jan. 16 1891

Time of day, 10.30 ; of tide, Flood

Locality, Cooper River S.C. bt 8.

Exact position, about 400 yds off L H wlf. outside entrance to river

Depth, 4 fthm 4 ft.

Nature of bottom, Hard Clay

Dredging instrument used, Dredge & Sml B D.

Direction of drift, 200 yds ; distance, up stream

Temperature of air, 58 therm. No., 7050

" of surface water, 51° " 7041

" ~~at depth of — fathoms~~, "

" at bottom, 50° "

Density at surface, 1.0266 / 1.02479 cor temp., 51°

" at depth of ~~— fathoms~~, "

" at bottom, 1.0266 / 1.02470 " 50°

Number of salinometer, 7046

Barometer reading, 30.24

State of sky, B.C.

Direction of wind, South ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S. Fish Com

Name and rank of commanding officer, R. Platt. Lieut U.S.N

Name and position of observer, S. J. C. Smith Mate U.S.N

Contents of Dredges

NOTES RELATING TO STATION NO. 1647

Quantity of Sand mixed with mud.
Stone Crab
Blue Crabs
Sea Cucumbers.
Gorgonias
Sponges.
lot of dead shells, small

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1648.

Date, Jan 16 1891

Time of day, 1045 ; of tide, Flood

Locality,

Exact position, Just below L. I. R. wharf in Calibogue Sound. 800 yds off.

Depth, 8 fthm 2 ft

Nature of bottom, Soft.

Dredging instrument used, Dredge.

Direction of drift, Up the Sound; distance, 400 yds.

Temperature of air, 56° therm. No., 7051

" of surface water, 53° " 7041

" ~~at depth of fathoms,~~ "

" at bottom, 52 "

Density at surface, 1.0228 / 1.021 Cor temp., 53°

" ~~at depth of fathoms,~~ "

" at bottom, 1.0228 / 1.021 " 52

Number of salinometer, 7046

Barometer reading, 30.24

State of sky, B. l.

Direction of wind, South ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U S F. C.

Name and rank of commanding officer, R. Platt Lieut USN

Name and position of observer,

S. J. L. Smith mate U.S.N

Contents of dredge

NOTES RELATING TO STATION NO. 1648

large quantity of Blue mud & Clay - little sand few dead shells.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1649

Date, Jan 16 1891

Time of day, 11.00 a.m. ; of tide, Flood

Locality, Calibogue Sound S.C.

Exact position, Calibogue Sound. Souther Beacon right abeam. about in mid stream

Depth, 7 fthm

Nature of bottom, Soft

Dredging instrument used, Dredge

Direction of drift, up Sound ; distance, 200 yds.

Temperature of air, 57° therm. No., 7050

" of surface water, 49.5 " 7041

" ~~at depth of~~ fathoms, "

" at bottom, 50° "

Density at surface, 1.0226 } 1.0206 cor temp., 49.5

" ~~at depth of~~ fathoms, "

" at bottom, 1.0234 } 1.0215 " 50°

Number of salinometer, 7046

Barometer reading, 30.23

State of sky, Cloudy.

Direction of wind, South ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S. Fish Com.

Name and rank of commanding officer, R. Platt Lieut. U.S.N.

Name and position of observer,

J. T. C. Smith
Mate U.S.N.

NOTES RELATING TO STATION NO. 1649

Small quantity of sponge
dead Folias shells.
Luidia Starfish (several
Hydroids
ordinary red starfish
Picnogonids
few small dead shells
Small flatfish

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1650

Date, Jan. 16, 1891

Time of day, 11.30 ; of tide, Flood

Locality, Calibogue Sound S.C.,

Exact position, Line between Marsh & Brake Islands middle of Calibogue Sound

Depth, 6 fthm 4 ft

Nature of bottom, Hard,

Dredging instrument used, Dredge.

Direction of drift, W. the Sound ; distance, 300 yds.

Temperature of air, 62° therm. No., 7050

" of surface water, 49.5° " 7041

" ~~at depth of fathoms~~, "

" at bottom, 51° "

Density at surface, 10228 cor 1.0208 temp., 49.5°

" ~~at depth of fathoms~~, "

" at bottom, 10226 1.0207 " 51°

Number of salinometer, 7046

Barometer reading, 30.22

State of sky, Blue & cloudy.

Direction of wind, South ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S. Fish Com.

Name and rank of commanding officer, R. Platt Lieut USN

Name and position of observer, S. T. C. Smith Mate U.S.N.

Contents of Dredge

NOTES RELATING TO STATION NO. 1650

~~Qu~~
Number of Starfish
" " Blue Crabs.
lot of sponges
Dead Periwinkle Shell
Sea Cucumbers.
few small dead shells.
lumps of coal & few
stones + 1 piece Phosphate rock.
Young Stone Crabs
few live neverita's

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1651

Date, Jan. 16 1891

Time of day, 11.43 ; of tide, Flood.

Locality, Calibogue Sound

Exact position, Off South end of May River, middle of the Sound.

Depth, 10 fthm.

Nature of bottom, Hard.

Dredging instrument used, Dredge.

Direction of drift, up the Sound; distance, 300 yds.

Temperature of air, 61° therm. No., 7050

" of surface water, 49.5° " 7041

" ~~at depth of~~ fathoms, "

" at bottom, 51° "

Density at surface, 1.0226 } 1.0206 or temp., 49.5°

" ~~at depth of~~ fathoms, } " ✓

" at bottom, 1.0226 } 1.0207. " 51°

Number of salinometer, 7046

Barometer reading, 30.21

State of sky, Cloudy

Direction of wind, South ; force, 3.

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S. Fish Com.

Name and rank of commanding officer, R. Platt. Lieut N.J.N

Name and position of observer, S. T. C. Smith. Mate N.J.N.

NOTES RELATING TO STATION NO. 1651

Contents of Dredge.
Large Quantity of sponge.
several devil crabs.
live Periwinkles.
live drillmarines
" Manippi - Stone Crab
number of gorgonias.

large quantity of seed oysters
about one year old.
lot of gravel
live sea squirts

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1652.

Date, Jan 21. 91.

Time of day, 8.50 ; of tide, Ebb ½.

Locality, Skull Creek S.C.

Exact position, Opposite Seabrook village Boo yds off.

Depth, 5 fthm

Nature of bottom, Blue Clay. Hard.

Dredging instrument used, Dredge.

Direction of drift, toward P.R. Sound ; distance, 100 yds

Temperature of air, 56 therm. No., 7059

" of surface water, 50 " 7041

" ~~at depth of~~ fathoms, "

" at bottom, 51 "

Density at surface, 1023 4 {Cor 1.0215 temp., 50°

" ~~at depth of~~ fathoms, "

" at bottom, 1023 5 {1.0216 " 51°

Number of salinometer, 7046

Barometer reading, 30.23

State of sky, Cloudy

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

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S. Fish Com

Name and rank of commanding officer, R. Platt Lieut USN

Name and position of observer, S. T. C. Smith Mate USN

NOTES RELATING TO STATION NO. 1652

Contents of Dredge.

Blue mud - small quantity of dead oyster shells.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1653

Date, Jan. 21. 1891

Time of day, 9.10 am ; of tide, Ebb

Locality, Port Royal Sound opp. Skull Creek

Exact position, Hilton Head Pt. just open to eastward.

Depth, 5 fthm.

Nature of bottom, Hard

Dredging instrument used, Dredge

Direction of drift, down stream ; distance, 100 yds

Temperature of air, 53.° therm. No., 7059

" of surface water, 49.5° " 7041

" ~~at depth of fathoms,~~ "

" at bottom, 49° for "

Density at surface 1.0245 (1.02255) temp., 49.5°

" ~~at depth of fathoms,~~ "

" at bottom, 1.0245 (1.02251) " 49°

Number of salinometer, 7046

Barometer reading, 30.23

State of sky, cloudy

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

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer, R. Platt Lieut U.S.N

Name and position of observer, A. T. C. Smith Mate U.S.N

Contents of Dredge

NOTES RELATING TO STATION NO. 1658

Dredge came up empty

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1654.

Date, Jan. 21. 1891

Time of day, 9.25 AM ; of tide, 5/8 Ebb

Locality, Cheraw River, S.C.

Exact position, Off Mackay Creek. in line of S.E. point of Dawes Island. In mid channel

Depth, 4 fthm

Nature of bottom, Hard.

Dredging instrument used, Dredge.

Direction of drift, down stream ; distance, 100 yds

Temperature of air, 52° therm. No., 7059

" of surface water, 49° " 7041

" ~~at depth of fathoms,~~ "

" at bottom, 50° "

Density at surface, 1.0344 {cor 1.0224 temp., 49°

" ~~at depth of fathoms,~~ "

" at bottom, 1.0246 {1.0227 " 50°

Number of salinometer, 7046

Barometer reading, 30.23

State of sky, Cloudy.

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

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S. Fish Com

Name and rank of commanding officer, R. Platt Lieut U.S.N

Name and position of observer, S. J. C. Smith Mate U.S.N

NOTES RELATING TO STATION NO. 1654.

Contents of Dredge.

Dredge empty, as the bottom is very fine sand.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1655

Date, Mch. 4 '91

Time of day, 9.15 A.M. ; of tide, First of Flood

Locality, North Edisto River S.C.

Exact position, at the Entrance to Russell Creek.

Depth, 5 fth 2 ft

Nature of bottom, Hard.

Dredging instrument used, Dredge.

Direction of drift, Up Edisto ; distance, 100 yds

Temperature of air, 64 therm. No., 7066

" of surface water, 58 " 7041

" ~~at depth of fathoms~~, "

" at bottom, 58° " 7041

Density at surface, 1.0216 cor 1.0205 temp., 58°

" ~~at depth of fathoms~~, "

" at bottom, 1.0224 cor 1.0213 " 58°

Number of salinometer, 7053

Barometer reading, 30.01

State of sky, Cloudy & overcast

Direction of wind, South ; force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

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

Service to which attached, U.S. Fish Com.

Name and rank of commanding officer, R. Platt Lieut U.S.N.

Name and position of observer, S. T. C. Smith Mate U.S.N.

NOTES RELATING TO STATION NO. 1655

Contents of Dredge

1 Blue Crab.
1 Gorgonian

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1656

Date, Mch. 4. 1891

Time of day, 9.30 am; of tide, Young Flood

Locality, North Edisto River S.C.

Exact position, Mouth of Leadenwah Creek

Depth, 6 fth 5 ft.

Nature of bottom, Hard

Dredging instrument used, Dredge.

Direction of drift, Up Edisto; distance, 100 yds.

Temperature of air, 63° therm. No., 7066

" of surface water, 57 " 7041

" ~~at depth of~~ fathoms, "

" at bottom, 58° " 7041

Density at surface, 1.020 cor 1.018 temp., 57°

" ~~at depth of~~ fathoms, "

" at bottom, 1.0226 cor 1.0215 " 58°

Number of salinometer, 7053

Barometer reading, 30.01

State of sky, Cloudy + overcast

Direction of wind, South; force, 1

Rain, Light drizzle

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U S Fish Com

Name and rank of commanding officer, R. Platt Lieut USN

Name and position of observer, S. J. G. Smith mate USN

NOTES RELATING TO STATION NO. 1656

Contents of Dredge

Dead Shells. oyster
" " Periwinkles
Bloody clams
Sponges. yellow with shells.
1 Blue Crab
2 Fine Periwinkles
Annelids
Brittle Stars (few)
Quantity of Hydroids
several piles Phosphate Rock
Small broken dead shells
Tunicates. -

The tooth part of the Dredge was broken in the centre so ceased dredging.

Caprellas.
Amphipods.

Took specimen of bottom water line

To be plotted on Tracings of large scale with protractor

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1657 (See angles in Sounding Book A No 2)

Date, Mch 10

Time of day, 10,50 AM; of tide, 3/4 flood

Locality, Charleston Harbor

Exact position,

Depth, 4 Fthm

Nature of bottom, Soft.

Dredging instrument used, Beam Trawl 7 ft.

Direction of drift, up stream; distance, 200 yds.

Temperature of air, 63° therm. No., 7079

" of surface water, 58° " 7041

" at depth of fathoms, "

" at bottom, 58° "

Density at surface, 1.0238 temp., 58°

" at depth of fathoms, "

" at bottom, 1.0238 " 58°

Number of salinometer, 7046

Barometer reading, 29.87

State of sky, overcast

Direction of wind, South; force, 4

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U. S. Fish Com

Name and rank of commanding officer, R. Platt. Lieut USN

Name and position of observer, S. T. C. Smith Mate USN

NOTES RELATING TO STATION NO. 1657

Contents of Net.

Net empty.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1658. See Sounding Book A. 2

Date, Mch. 13 1891

Time of day, 11.10 am; of tide, 3/4 Flood.

Locality, Charleston Harbor

Exact position,

Depth, 7 Fthm

Nature of bottom, Soft Sticky

Dredging instrument used, 7 ft Beam Trawl net

Direction of drift, ; distance,

Temperature of air, 63° therm. No., 7079

" of surface water, 58° " 7041

" at depth of fathoms, "

" at bottom, 58 " "

Density at surface, 1.0236 temp., 58°

" at depth of fathoms, "

" at bottom, 1.0238. " 58

Number of salinometer, 7046

Barometer reading, 29.86

State of sky, Overcast

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

Rain, Drizzling

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, Fish Comm.

Name and rank of commanding officer, R. Platt
Lieut USN

Name and position of observer,
S. T. C. Smith
Mate USN

NOTES RELATING TO STATION NO. 1658

Contents of Trawl

Small quantity of blue mud.
1 Blue Crab.
1 Small Flounders
Tongue Sole. Several.
Goby
few small Lady Crabs
1 " " Earl's Hakes.
" " Shrimp.
1 " Sand Star fish
" Hermit Crabs

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

See Sounding Book A2

Station No. 1659.

Date, Mch. 13 91

Time of day, 11.30 am ; of tide, 7/8 Flood.

Locality, Charleston Harbor.

Exact position,

Depth, 7 Fth 5 feet.

Nature of bottom, Soft Sticky

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 62° therm. No., 7079

" of surface water, 57.5° " 7041

" at depth of fathoms, "

" at bottom, 58° " "

Density at surface, 1.0238 temp., 57.5°

" at depth of fathoms, "

" at bottom, 1.0238 " 58°

Number of salinometer, 7046

Barometer reading, 29.86

State of sky, overcast.

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

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S. Fish Com.

Name and rank of commanding officer, R. Platt Lieut USN

Name and position of observer, J. J. B. Smith Mate USN

NOTES RELATING TO STATION NO. 1659

Contents of Trawl.

Lot of Gorgonias
Sponges
Small Crabs.
Tongue Sole
1 Spider Crab
6 Hake
1 Stone Crab
Shrimps (a number)
worms.
amphipods
American Sole.
Dead Shells different kinds.