Fish Hawk
Dredging stations 7900-7922
Between Galveston & Mobile
June 22-25-1913 incl

Special investigations in
cooperation with
U.S. Geological Survey

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 7900 to 7922

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7900

Date, June 22 1913

Time of day, 4.55 am ; of tide,

Locality, Gulf of Mexico.

Exact position, 72 1/4 miles from Galveston S.E. x E from Sabine Bank Lt. Distance 25 miles

Depth, 9 1/4 fms

Nature of bottom, hard

Dredging instrument used, Gr. sampler

Direction of drift, Westerly ; distance, 1/2 mi (appx)

Temperature of air, 78 Fahr. therm. No., 130

" of surface water, 80 " 1026

" at depth of fathoms, "

" at bottom, "

Density at surface, temp., Celsius.

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 29.93

State of sky, clear

Direction of wind S. E ; force, 2

Rain,

Direction of surface current, Westerly; force, light

" of bottom " ; force,

Name and position of observer,

11—1068

J. J. O'Brien Bosn U.S.N.

NOTES RELATING TO STATION NO. .....

Two salinometers
used
7046 x 7449 @

Distinguishing marks

x @

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7901

Date, June 22 1913

Time of day, 12.40 pm ; of tide,

Locality, Gulf of Mexico

Exact position, 9½ miles Ex S from Trinity Shoal Buoy

Depth, 8 fms

Nature of bottom, Hard mud

Dredging instrument used, Gr. sampler & mud bag

Direction of drift, Westerly; distance, ½ m (approx)

Temperature of air, 82 Fahr. therm. No., 120

" of surface water, 80 " 1026

" at depth of fathoms, "

" at bottom, 79 " 1026

Density at surface, temp., Celsius.

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 29.98

State of sky, blue & cloudy

Direction of wind S. E ; force, 2

Rain,

Direction of surface current, Westerly; force, light

" of bottom " ; force,

Name and position of observer,

J. J. O'Brien Boatn USN

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7902

Date, June 22 1913

Time of day, 5:05 pm ; of tide,

Locality, Gulf of Mexico

Exact position, 30 miles from Trinity Shoal Buoy, Course Ex S½ S

Depth, 10½ fms

Nature of bottom, Hard mud

Dredging instrument used, Gr. sampler, mud bags and tow nets

Direction of drift, North ; distance, ½ m (approx)

Temperature of air, 82 Fahr. therm. No., 120

" of surface water, 80 " 1026

" at depth of fathoms, "

" at bottom, 79½ " 1026

Density at surface, 1019 temp., Celsius.

" at depth of fathoms, "

" at bottom, 1020½ @ " 26 #5005

Number of salinometer, 7449 @

Barometer reading, 2993

State of sky, partly clear

Direction of wind SE ; force, 2

Rain,

Direction of surface current, North ; force, strong

" of bottom " ; force,

Name and position of observer,

J J O'Brien Boatswain

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7903

Date, June 23 1913

Time of day, 5:28 am ; of tide,

Locality, Gulf of Mexico

Exact position, 17 miles SE¼E from Tembalier Island Lt. 54 miles E⅛N from Ship Shoal

Depth, 17 fms

Nature of bottom, soft mud

Dredging instrument used, Gr sampler md. bag & tow nets

Direction of drift, North ; distance, ½ mile (appx)

Temperature of air, 80 Fahr. therm. No., 130

" of surface water, 82 " 1026

" at depth of fathoms, "

" at bottom, 74 " 1026

Density at surface, 1015 ± 2 temp., Celsius.

" at depth of fathoms, "

" at bottom, 1024 1/4 @ " 25 #5005

Number of salinometer, 7449 @

Barometer reading, 2996

State of sky, blue and partly clear

Direction of wind S.E. ; force, 3

Rain,

Direction of surface current, North ; force, light

" of bottom " ; force,

Name and position of observer,

J J O Brien Boatn USN

643

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7904

Date, June 23 1913

Time of day, 10:20 am ; of tide,

Locality, Mth. Miss. Riv. (S. W. Pass)

Exact position, N½ E – S. W. Jetty Lt.

N½ E½ E – S. W. Jetty Lt. House

Depth, 12 fms

Nature of bottom, soft mud

Dredging instrument used, Gr. sampler; Md. bag. & two nets

Direction of drift, East ; distance, 1½ mi (appx)

Temperature of air, 85 Fahr. therm. No., 130

" of surface water, 80½ " 1026

" at depth of fathoms, "

" at bottom, 77 " 1026

Density at surface, 1009½ x temp., Celsius.

" at depth of fathoms, "

" at bottom, " "

Number of salinometer, 7046 x

Barometer reading, 3000

State of sky, partly clear

Direction of wind S.E. ; force, 3

Rain,

Direction of surface current, East ; force, light

" of bottom " ; force,

Name and position of observer,

J. J. O'Brien Bosn Mate

11—1068

643

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7904

Date, June 23 1913

Time of day, 10:20 am ; of tide,

Locality, Mth. Miss. Riv. (S. W. Pass)

Exact position, N½ E – S. W. Jetty Lt.

N.x E½ E – S. W. Jetty Lt. House

Depth, 12 fms

Nature of bottom, soft mud

Dredging instrument used, Gr. sampler; Md. bag. & two nets

Direction of drift, East ; distance, 1¼ mi (appx

Temperature of air, 85 Fahr. therm. No., 130

" of surface water, 80½ " 1026

" at depth of fathoms, "

" at bottom, 77 " 1026

Density at surface, 1009½ x temp., Celsius.

" at depth of fathoms, "

" at bottom, ✓ " ✓

Number of salinometer, 7046 x

Barometer reading, 3000

State of sky, partly clear

Direction of wind S.E. ; force, 3

Rain,

Direction of surface current, East ; force, light

" of bottom " ; force,

Name and position of observer,

11—1068 J. J. O'Brien Bosn USN

643

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7905

Date, June 23 1913

Time of day, 11:15 am ; of tide,

Locality, Mth. Miss. River (S.W. Pass),

Exact position, S.W. Pass Lt. House bearing N¼E; S.W. Pass Lt. Ship bearing N.W.

Depth, 38 fms

Nature of bottom, soft mud

Dredging instrument used, Gr sample, Md. bag tow nets.

Direction of drift, East ; distance, 1¼ m. (Apprd)

Temperature of air, 87 Fahr. therm. No., 130

" of surface water, 81 " 1026

" at depth of fathoms, "

" at bottom, 72½ " 1026

Density at surface, 998x temp. 29½ ~~Celsius.~~ #5005

" at depth of fathoms, "

" at bottom, 1021@ " 25½ #5005

Number of salinometer, 7046x 7449@

Barometer reading, 3000

State of sky, partly clear

Direction of wind S.E. ; force, 3

Rain,

Direction of surface current, East ; force, strong

" of bottom " ; force,

Name and position of observer,

11—1068 J J O Brien Bosn USN

643

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7906 (3?)

Date, June 22 1913

Time of day, 12:25 pm ; of tide,

Locality, Mth. Miss. Riv. (S.W. Pass)

Exact position, S.W. Pass Lt House bearing N x W.; S.W. Pass Lt. Ship bearing N W 5/8 W.

Depth, 59½ fms

Nature of bottom, soft mud

Dredging instrument used, Gr sample, Md. bag Bm. trawl, tow nets

Direction of drift, East ; distance, 1½ mi (apprx)

Temperature of air, 86 Fahr. therm. No., 130.

" of surface water, 82½ " 1026

" at depth of fathoms, "

" at bottom, 77 " 1026

Density at surface, 1013 ± 2 x temp., 27 ~~Celsius~~ 5005

" at depth of fathoms, "

" at bottom, 1023½ @ " 25 5005

Number of salinometer, 7046 x 7449 @

Barometer reading, 2999

State of sky, partly clear

Direction of wind S.E. ; force, 3

Rain,

Direction of surface current, East ; force, strong

" of bottom " ; force,

Name and position of observer,

11—1068 J J O'Brien Bosn USN

Probably N W 5/8 N E W Shaw

643

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7907

Date, June 23-1913

Time of day, 2:15 pm ; of tide,

Locality, Gulf of Mexico

Exact position, Log reading 32. – 6¾ miles S.S.E. of Sta # 7906

Depth, 97½ fms

Nature of bottom, soft mud

Dredging instrument used, Gr. sampler, md. bag & tow nets

Direction of drift, East ; distance, 1 mi (approx)

Temperature of air, 83 Fahr. therm. No., 130

" of surface water, 82 " 1026

" at depth of fathoms, "

" at bottom, 79½ " 1026

Density at surface, x 1014 ∓ 2 temp. 28 ~~Celsius~~ 5005

" at depth of fathoms, "

" at bottom, (a) 1022 " 25 5005

Number of salinometer, x 7046 (c) 7449

Barometer reading, 2999

State of sky, partly clear

Direction of wind S.E. ; force, 3

Rain,

Direction of surface current, East ; force, strong

" of bottom " ; force,

Name and position of observer,

11—1068

J. J. O'Brien Boatswain USN

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7908

Date, June 23. 1913

Time of day, 6:30 pm ; of tide,

Locality, Mth. Miss Rvr. (So. Pass)

Exact position, S. P. Lt. N.W. ½ N. outer Jetty Lt. N.N.W.

Depth, 17 fms.

Nature of bottom, soft mud

Dredging instrument used, Gr. sampler, Md bag Bm. trawl, Tow nets

Direction of drift, East ; distance, 1 mi (appx)

Temperature of air, 80 Fahr. therm. No., 130

" of surface water, 82½ " 1026

" at depth of fathoms, "

" at bottom, 73½ " 1026

Density at surface, x 1005½ temp., Celsius.

" at depth of fathoms, "

" at bottom, "

Number of salinometer, x 7046

Barometer reading, 2994

State of sky, partly cloudy

Direction of wind S.E. ; force, 3

Rain,

Direction of surface current, East ; force, strong

" of bottom " ; force,

Name and position of observer,

11—1068 J. J. O'Breen Bosn USN

643

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7909

Date, June 24, 1913

Time of day, 6:40 am ; of tide,

Locality, Mth. Miss. Riv. (S. Pass)

Exact position, S. P. Lt. N x E
S. W. Lt. N. E. Probably NW Ewsham

Depth, 76 fms

Nature of bottom, soft mud

Dredging instrument used, Gr. sampler & tow nets Md. bag

Direction of drift, East ; distance, 1¼ mi (appr

Temperature of air, 80 Fahr. therm. No., 130

" of surface water, 81 " 1026

" at depth of fathoms, "

" at bottom, 71 " 1026

Density at surface, x 1014 F 2 temp. 27 ~~Celsius~~ 5005

" at depth of fathoms, "

" at bottom, 1023½ @ " 24½ 5005

Number of salinometer, x 7046 7449 @

Barometer reading, 2995

State of sky, partly clear

Direction of wind S. E ; force, 3

Rain,

Direction of surface current, East ; force, strong

" of bottom " ; force,

Name and position of observer,

11—1068

J. J. O'Brien Bosn USN

643

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7910

Date, June 24 1913

Time of day, 7:35 am; of tide,

Locality, S. Pass Miss. River

Exact position, S.P. Lt. North

S.W. Pass Lt. N.N.W. ½ W.

Depth, 51 fms

Nature of bottom, soft mud

Dredging instrument used, Gr. sampler, Md. bag & tow nets.

Direction of drift, East ; distance, 1½ mi (appx)

Temperature of air, 80 Fahr. therm. No., 130

" of surface water, 79 " 1026

" at depth of fathoms, "

" at bottom, 69 " 1026

Density at surface,[x] 1008½ temp., 26 ~~Celsius~~ 5005

" at depth of fathoms, "

" at bottom, 1021@ " 23 5005

Number of salinometer,[x] 7046 7449@

Barometer reading, 2995

State of sky, partly clear

Direction of wind S.E ; force, 3

Rain,

Direction of surface current, East ; force, strong

" of bottom " ; force,

Name and position of observer,

11—1068

J. J. O'Brien Boat Man.

643

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7911

Date, June 24 1913

Time of day, 9:05 am ; of tide,

Locality, Mth. Miss. Rv. (Gulf of Mex)

Exact position, S. P. Lt. N.N.½ W.

S. P. Buoy N.N.x N

Depth, 42 fms

Nature of bottom, soft mud

Dredging instrument used, Gr. sampler. Md. bag Tow nets

Direction of drift, East ; distance, 1⅓ mi (approx)

Temperature of air, 80 Fahr. therm. No., 130

" of surface water, 80 " 1026

" at depth of fathoms, "

" at bottom, 64½ " 1076

Density at surface, 1010 x temp., 26 ~~Celsius~~ 5005

" at depth of fathoms, "

" at bottom, 1023½ @ " 24 5005

Number of salinometer, 7046 x 7049 @

Barometer reading, 29.95

State of sky, partly clear

Direction of wind S.E. ; force, 3

Rain,

Direction of surface current, East ; force, strong

" of bottom " ; force,

Name and position of observer,

11—1068

J. J. O'Brien Boatswain

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7912

Date, June 24-1913

Time of day, 9:30 am; of tide,

Locality, Mth. Miss. Riv. (Gulf of Mex)

Exact position, S. Pass Lt. N.N.E. 7/8 N.

S. Pass Buoy N.N.E. 3/8 N.

Depth, 56 fms

Nature of bottom, soft mud

Dredging instrument used, Gy. sampler; Md. bag Bm trawl & tow nets

Direction of drift, West ; distance, 1 1/4 mi (appx)

Temperature of air, 82 Fahr. therm. No., 130

" of surface water, 81 " 1026

" at depth of fathoms, "

" at bottom, 66 1/2 " 1026

Density at surface, 1013 1/4 x temp., 22 Celsius 5005

" at depth of fathoms, "

" at bottom, @ 1032 (muddy) " 23 5005

Number of salinometer, 7046 x 7449 @

Barometer reading, 2996

State of sky, partly clear

Direction of wind N.E.; force, 3

Rain,

Direction of surface current, West ; force, strong

" of bottom " ; force,

Name and position of observer,

11—1068

J. J. O'Brien Boson Mate

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7913

Date, June 2d 1913

Time of day, 10:20 am ; of tide,

Locality, Gulf of Mexico

Exact position, S. Lt. N.H. x H.

2½ mi. S.E. x E of Sta. # 7912

Depth, 122 fms

Nature of bottom, soft mud

Dredging instrument used, Gr. sampler & tow nets

Direction of drift, East ; distance, 1½ mi (appx)

Temperature of air, 82 Fahr. therm. No., 130

" of surface water, 81 " 1076

" at depth of fathoms, "

" at bottom, 67½ " 1076

Density at surface, × 1013 ±2 temp., 28 ~~Celsius~~ 5005

" at depth of fathoms, "

" at bottom, 1024 @ " 24 5005

Number of salinometer, 7046 × 7449 @

Barometer reading, 2996

State of sky, partly clear

Direction of wind N.E. ; force, 3

Rain,

Direction of surface current, East ; force, strong

" of bottom " ; force,

Name and position of observer,

11—1068

J. J. O'Brien Boson Usn

643

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7914

Date, June 24 1913

Time of day, 10:55 am ; of tide,

Locality, Mth. Miss. River

Exact position, S Pass Lt. N 1/2 W

Jetty Lt. N. 3/8 S

Depth, 48 fms

Nature of bottom, soft mud

Dredging instrument used, Gr. sampler, Med bag, Brm. trawl & tow nets

Direction of drift, East ; distance, 1/3 mi (appx)

Temperature of air, 82 Fahr. therm. No., 130

" of surface water, 82 " 1026

" at depth of fathoms, "

" at bottom, 76 1/2 * " 1026

Density at surface, 1011 1/2 × temp. 23 ~~Celsius~~ 5005

" at depth of fathoms, "

" at bottom, 1022 1/2 @ " 23 1/2 5005

Number of salinometer, 7046 × 7449 @

Barometer reading, 2996

State of sky, partly clear

Direction of wind N.E. ; force, 3

Rain,

Direction of surface current, East ; force, strong

" of bottom " ; force,

Name and position of observer,

11—1068

J. J. O'Brien Asst MSM

643

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7915

Date, June 24 1913

Time of day, 11:40 am; of tide,

Locality, Gulf of Mexico (Mth. Miss Rv.)

Exact position, N.E.P. Tower N.N.W. 3/4 W.
S.P. Lt. W. x S 1/2 S.

Depth, 34 fms

Nature of bottom, soft mud

Dredging instrument used, Gr. sampler, Md. bag
Bm. trawl + tow nets

Direction of drift, East ; distance, 1 1/4 mi (appx)

Temperature of air, 82 Fahr. therm. No., 130

" of surface water, 83 " 1026

" at depth of fathoms, "

" at bottom, 68 1/2 " 1026

Density at surface, 1006x temp., 28 ~~Celsius~~ 5005

" at depth of fathoms, "

" at bottom, 1023@ " 23 1/2 5005

Number of salinometer, 7046x 7449@

Barometer reading, 2996

State of sky, partly clear

Direction of wind N.E.; force, 3

Rain,

Direction of surface current, East; force, strong

" of bottom " ; force,

Name and position of observer,

11—1068

J J O'Brien Bosn USN

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7916

Date, June 24 - 1913

Time of day, 12:25 pm; of tide,

Locality, Gulf of Mexico

Exact position, N.E.P. Tower - N.W. x W. 7/8 W
Pass a Lautre Lt. N.W. x N.

Depth, 12 fms

Nature of bottom, soft mud

Dredging instrument used, Gr. sampler Bm trawl Md. bag. & tow nets

Direction of drift, East ; distance, 1 1/3 mi (approx)

Temperature of air, 84 Fahr. therm. No., 130

" of surface water, 84 1/2 " 1026

" at depth of fathoms, "

" at bottom, 72 " 1026

Density at surface, 1000x temp., 30 ~~Celsius.~~ 5005

" at depth of fathoms, "

" at bottom, 1006 1/4 " 27 1/2 5005

Number of salinometer, 7046x

Barometer reading, 2996

State of sky, partly clear

Direction of wind S.E. ; force, 3

Rain,

Direction of surface current, East ; force, strong

" of bottom " ; force,

Name and position of observer,

11—1068

J J O'Brien Bosn Usnavy

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7917

Date, June 24 1913

Time of day, 12:30 pm ; of tide,

Locality, Gulf of Mexico (Mth Miss. Riv.)

Exact position, N.E. Pass Tower W 5/8 N.

Loutre Pass Lt. N.W. 3/8 N.

Depth, 2 3/4 fms

Nature of bottom, soft mud

Dredging instrument used, Br. sampler, Md. bag & tow nets.

Direction of drift, East ; distance, 1 mi (appx)

Temperature of air, 84 Fahr. therm. No., 130

" of surface water, 85 " 1076

" at depth of fathoms, "

" at bottom, 78 " 1026

Density at surface, 998 1/2 x temp., 29 1/2 ~~Celsius~~ 5005

" at depth of fathoms, "

" at bottom, 1012 1/2 x " 26 1/2 5005

Number of salinometer, 7046 x

Barometer reading, 2996

State of sky, Partly clear

Direction of wind SE ; force, 2

Rain,

Direction of surface current, East ; force, strong

" of bottom " ; force,

Name and position of observer,

11—1068

J. J. O'Brien Boatswain USNavy

643

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Prob NW 3/8 W
E.W. Shaw

Station No. 7918

Date, June 24 1913

Time of day, 1:15 pm ; of tide,

Locality, Gulf of Mex (Mth. Miss Riv.)

Exact position, Pass a Loutre Lt. N.W. 5/8 S
N.E. Tower W. 5/8 N.

Depth, 21 fms

Nature of bottom, soft mud

Dredging instrument used, Gr. sampler Md. bag + tow nets

Direction of drift, East ; distance, 1 1/2 mi (aprx

Temperature of air, 84 Fahr. therm. No., 130

" of surface water, 86 " 1026

" at depth of fathoms, "

" at bottom, 68 " 1026

Density at surface, 1000x temp., 30 ~~Celsius~~ 5005

" at depth of fathoms, "

" at bottom, 1001x " 25 1/2 5005

Number of salinometer, 7046x

Barometer reading, 2996

State of sky, partly clear

Direction of wind S.E ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name and position of observer,

11—1068

J J O'Brien Bosn USNavy

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7919

Date, June 24 1913

Time of day, 2:05 pm ; of tide,

Locality, Gulf of Mexico (Mth Miss. Rev.

Exact position, Pass a Loutre Lt. NW x W

N.E. Pass Tower WNW 5/8 W

Depth, 55 fms

Nature of bottom, soft mud

Dredging instrument used, G.v. sampler, Md bag townets + Bm trawl

Direction of drift, East ; distance, 1¼ mi (appr

Temperature of air, 82 Fahr. therm. No., 130

" of surface water, 83 " 1026

" at depth of fathoms, "

" at bottom, 64 " 1026

Density at surface, 1009¼ x temp., 23½ ~~Celsius.~~ 5005

" at depth of fathoms, "

" at bottom, 1024¼ @ " 23½ 5005

Number of salinometer, 7046 x 7449 @

Barometer reading, 2995

State of sky, partly clear

Direction of wind S.E. ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name and position of observer,

11—1068

J. J. O'Brien Bosn U.S. Navy

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7920

Date, June 24 1913

Time of day, 3:10 pm ; of tide,

Locality, Gulf of Mexico

Exact position, Bearing 5 miles S.E x E½ E of Sta #7919

Depth, 81 fms

Nature of bottom, soft mud

Dredging instrument used, Gr. sampler, Md. bag tow nets and Bm. trawl

Direction of drift, East ; distance, 1½ mi (approx)

Temperature of air, 82 Fahr. therm. No., 130

" of surface water, 82½ " 1026

" at depth of fathoms, "

" at bottom, 74 - #8531 [75 " 1026

Density at surface, x 1013 F temp. 28½ ~~Celsius~~ 5005

" at depth of fathoms, "

" at bottom, 1021 @ " 24 5005

Number of salinometer, 7046 x 7449 @

Barometer reading, 29.94

State of sky, partly clear

Direction of wind S.E. ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name and position of observer,

11—1068

J. J. O'Brien Boson USNavy

643

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7921

Date, June 24 1913

Time of day, 10:45 pm ; of tide,

Locality, Gulf of Mexico

Exact position, 40 miles N.E. x N. of position plotted off Pass a Lautre Lt.

Depth, 17 fms

Nature of bottom, soft mud

Dredging instrument used, Gr sampler Md. bag Bm trawl & tow nets

Direction of drift, West ; distance, 1/3 mi (appr)

Temperature of air, 79 Fahr. therm. No., 120

" of surface water, 82 1/2 " 1026

" at depth of fathoms, "

" at bottom, 73 " 1026

Density at surface, x 1014 ± 2 temp., 28 ~~Celsius.~~ 5005

" at depth of fathoms, "

" at bottom, 1020 1/4 @ " 25 5005

Number of salinometer, 7046 x 7449 @

Barometer reading, 2993

State of sky, partly clear

Direction of wind S.E. ; force, 4

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name and position of observer,

11—1068

J J O'Brien Bosn USNavy

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. 7922

Date, June 25 1913

Time of day, 5:15 am ; of tide,

Locality, Entrance to Mobile Bay

Exact position, Between whistle & bell buoy with light bearing NXW ½ W.

Depth, 9 fms

Nature of bottom,

Dredging instrument used, Gr. sampler, Mc. bag Bm. trawl & tow nets

Direction of drift, ; distance,

Temperature of air, 80 Fahr. therm. No., 120

" of surface water, 81 - #8531 80½ - - " - - 1026

" at depth of fathoms, "

" at bottom, 7+1 " 1026

Density at surface, 1019* temp. 27½ ~~Celsius~~ 5005

" at depth of fathoms, "

" at bottom, 1019* " 26 5005

Number of salinometer, 7046*

Barometer reading, 2993

State of sky, partly clear

Direction of wind East ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name and position of observer,

11—1068

J. J. O'Brien Boatswain Navy