Fish 1881

No. III.

U.S. Fish. Commission and
Census of 1880. –
Statistics of Fisheries, Marine

Port of. – _____

Name of Vessel

Rig. Tonnage

Where built.

When built.

Original cost.

Present value. ; ~~of tide~~.

No of crew.

Nationality. American ____ Nova Scotian. ____

Swedish etc. ____ Irish. ____ French.

English ____ father Portuguese, ____ Negro.

What fishery engaged in

Where fishing.

Disposition made of fish . . . . . .

. . . . . .

Gross Stock 18__

Profits 18 –

Average Share of crew.

No bbls mackerel, 18__ (total)

No. written 3 with line

No lbs other fish 18. – (total)

(No written 3 with line

Name of ~~other fish~~ Master gullies;

Name of Agent or owner.

Name of person giving information

Name of recorder.

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1030 R.-Dredge.

Synaphobranchus	1
Scopelus	2+3

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 1030

Date, Sept. 14, 1881.

Locality,

Bearings, N. lat. 39° 58′ 30″
W. lon. 69° 15′

Time of day, 1.52 P.M. ; of tide,

State of sky, foggy

Temperature of air, 65

" surface of water, 66

" at depth of 5 fathoms, 66

" of bottom, 41

Depth, in fathoms, 337

Nature of bottom, Yellow mud

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1031 Trawl tore.

Scopelus (? two species)		14
Cottunculus microps		3
Raia	very young	1
Sebastes marinus		1
Phycis tenuis		1
" Chesteri		20
Macrurus Bairdii		7
Raia	egg large (not kept)	1

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 1031

Date, Sept. 14, 1881.

Locality,

Bearings, N. lat. 39° 57'
W. lon. 69° 19'

Time of day, 2.54 P.M.; of tide,

State of sky, foggy

Temperature of air, 64

" surface of water, 65

" at depth of 5 fathoms, 63.5

" of bottom, ~~255~~

Depth, in fathoms, 255

Nature of bottom, Yellow mud

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1032 Small beam trawl

Macrurus Bairdii	many
" carminatus	8
Setarches parmatus	5
Phycis Chesteri 2 pailsfull	
Merluccius	19
Lycodes Verrillii ♀	1
Raia — eggs small	7
Phycis Chuss	13
Scopelus	2
Paralichthys oblongus	1

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 1032

Date, Sept 14 1887

Locality, N. lat. 39° 56'

Bearings, W. lon. 69° 22'

Time of day, 4 P. M. ; of tide,

State of sky, Cloudy

Temperature of air, 65

" surface of water, 65

" at depth of 5 fathoms, 63. 5

" of bottom, 46

Depth, in fathoms, 208

Nature of bottom, Yellow mud

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1033

Scopelus	not kept	2
Dogfish	Scyllium	1
Paralichthys	oblongus	4
Merlucius		16
~~Macrurus Bairdii~~		
Macrurus	carinatus	31
Phycis	Chesteri	3 + 51
"	Chuss	14
Glyptocephalus		1
Raia	juv.	1
Argyropelecus?	1 lost.	
Setarches	parmatus	4

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1033

Date, Sept 14 1887

Locality,

Bearings, N. lat. 39° 56'
W. lon. 69° 24'

Time of day, 4.55 P.M.; of tide,

State of sky, b. c.

Temperature of air, 66

" surface of water, 63

" at depth of 5 fathoms, 63

" of bottom,

Depth, in fathoms, 183

Nature of bottom, s. g.

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1034 Trawl fouled

Scopelus 1+2

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 1034

Date, Sept. 14, 1881.

Locality, N. Lat. 39° 56'

Bearings, W. lon. 69° 26'

Time of day, 5.55 P.M. ; of tide,

State of sky, h. c.

Temperature of air, 66,

" surface of water, 62

" at depth of 5 fathoms, 60

" of bottom, 46.5

Depth, in fathoms, 146

Nature of bottom, Sand + yellow mud

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1035

Lophius	ad	1
Ophichthys ?		2
Citharichthys arc.		2
Merluccius		4
Phycis chuss ?		27
" tenuis ?		9

TEMPERATURE RECORD.

Instrument used, Beam Trawl

Current number of observation, 1035

Date, Sept. 14, 1881.

Locality,

Bearings, N. lat. 39° 57'
W. lon. 69° 28'

Time of day, 6.56 P.M. ; of tide,

State of sky, b. c.

Temperature of air, 65

" surface of water, 62

" at depth of 5 fathoms, 60

" of bottom, 47

Depth, in fathoms, 120

Nature of bottom, sand

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1036 R. Dredge

Ophidiinae juv. 1
Ophichthys ? fragment 1

TEMPERATURE RECORD.

Instrument used, Rake Dredge

Current number of observation, 1036

Date, Sept. 14, 1881.

Locality,

Bearings, N. lat. 39° 58'
W. lon. 69° 30'

Time of day, 7.54 P.M. ; of tide,

State of sky, b.c.

Temperature of air, 62

" surface of water, 61.5

" at depth of fathoms,

" of bottom, 51

Depth, in fathoms, 94

Nature of bottom, Sand

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1037

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation,

Date, Sept. 15, 1881.

Locality, Off Nomans Land

Bearings, Gay Head N. by E. 3/4 E. 4 1/4 m.

Time of day, 8 a.m. ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms, 8

Nature of bottom, Sand (Supposed wreck)

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1038

Myxine glutinosa	3
Setarches parmatus	5+4+23+3
Cithrichthys arctif. jnv	1+39
~~Raia laevis ? jnv.~~	~~3~~
Monolene sessilicauda	1
Glyptocephalus cynoglossus	1
Paralichthys oblongus	3
Merluccius bilinearis	14
Phycis chuss	1
Scopelus 2 species	3
Raia eglanteria ? jnv.	4
Hippoglossoides "	3
Palinurichthys ? jnv. at Surface.	1
Hyphalonedrus chalybeius	6+1
Macrurus carinatus	1

Trawl-line:

Squalus acanthias ♂	1
Phycis tenuis	1
Merluccius	2

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1038

Date, Sept. 21, 1881.

Locality, Off Martha's Vineyard.

Bearings, N. lat. 39° 58'
W. lon. 70° 06'

Time of day, 6.55 a.m.; of tide,

State of sky, Hazy

Temperature of air, 67

" surface of water, 67

" at depth of 5 fathoms, 68

" of bottom, 47

Depth, in fathoms, 146

Nature of bottom, S. + sh.

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1039 fouled

Citharichthys arctifrons 1

Monacanthus at surface 6

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 1039

Date, Sept. 21, 1881.

Locality, Off Martha's Vineyard

Bearings, N. lat. 39° 59'
W. lon. 70° 06'

Time of day, 9.35 a.m.; of tide,

State of sky, Hazy

Temperature of air, 66.30

" surface of water, 67

" at depth of 5 fathoms, 68

" of bottom, 50

Depth, in fathoms, 130 - 136

Nature of bottom, s. & sh.

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1040 Ex-Dredge.

Glyptocephalus cynoglossus 2

TEMPERATURE RECORD.

Instrument used, Excelsior Dredge.

Current number of observation, 1040

Date, Sept. 21, 1881.

Locality, Off Martha's Vineyard

Bearings, N. lat. 40° 00'
W. lon. 70° 06'

Time of day, 10.43 a.m.; of tide,

State of sky, Lazy

Temperature of air, 64

" surface of water, 68

" at depth of fathoms,

" of bottom, 66

Depth, in fathoms, 93

Nature of bottom, S. & sh.

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1041

Tautogolabrus	2
Centropristis atrarius jun.	3
Stenotomus argyrops "	12
Prionotus carolinus "	2
Raia erinacea egg	1

TEMPERATURE RECORD.

Instrument used,

Current number of observation, 1041

Date, Sept. 22, 1881.

Locality, Vineyard Sound

Bearings, West Chop Light
E ½ N, 1 3/4 miles

Time of day, 12.33 P.M.; of tide,

State of sky, b. c.

Temperature of air, 63.3

" surface of water, 65

" at depth of 5 fathoms, 65

" of bottom, 65

Depth, in fathoms, 9

Nature of bottom, gr.

Direction of ~~surface current~~ wind, SSW

Force of ~~surface current~~ wind, 4

Direction of ~~bottom current~~ drift, W.S.W. 3/4 m.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 1042

Raia erinacea 2
Stenotomus aculeatus fin.
Centropristis atrarius "
Prionotus carolinus "
Fantosolaba adspersus "

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date, Sept. 22, 1881.

Locality, ~~Off~~ Vineyard Sound

Bearings, West Chop Light
E. ½ N. 1½ miles

Time of day, 1.17 P.M. ; of tide,

State of sky, b. c.

Temperature of air, 63.3

" surface of water, 65

" at depth of fathoms,

" of bottom, 65

Depth, in fathoms, 6

Nature of bottom, S. gravel

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

Force of ~~surface current~~ wind 5

Direction of ~~bottom current~~, drift W. by N., ½ m.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

✓ Brotulid
✓ Enchelyopus cimbrius
✓ Scyllium
✓ Phycis chuss
✓ Hyphalonedrus chalybeius
✓ Peristedium miniatum
✓ Merluccius bilinearis
✓ Scorpæna

TEMPERATURE RECORD.

Instrument used, Trawl.

Current number of observation, 1043.

Date, Oct. 10, 1881.

Locality, Off Capes of Delaware.

Bearings, Lat. 38° 39' N.
Long. 73° 11' W.

Time of day, 7.17 a.m.; of tide,

State of sky, partly cloudy.

Temperature of air, 63.5

" surface of water, 65.5

" at depth of 5 fathoms, 65.5

" of bottom, 49

Depth, in fathoms, 130

Nature of bottom, sand

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

Force of ~~surface current~~, " 4

Direction of ~~bottom current~~, drift N W. by N., 1 3/4 m.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

✓ Maurolicus (surface)
✓ Scopelus

TEMPERATURE RECORD.

Instrument used, Trawl.

Current number of observation, 1044

Date, Oct. 10, 1881.

Locality, Off Capes of Delaware.

Bearings, Lat. 38° 37′ N.
Long. 73° 12′ W.

Time of day, 8. 15 A.M.; of tide,

State of sky, Cir. Cum.

Temperature of air, 65

" surface of water, 66

" at depth of 5 fathoms, 66

" of bottom, 42.5

Depth, in fathoms, 224

Nature of bottom, gray mud.

Direction of ~~surface current~~, wind, NW.

Force of ~~surface current~~, " 3

Direction of ~~bottom current~~, drift, WNW. ½ m.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

Came up empty. Deepened to 300 fms.

REMARKS.

✓ ~~Phycis tenuis~~ Laemonema
✓ Phycis Chesteri
✓ Macrurus carminatus
✓ " Bairdii
✓ Scorpaena
✓ Halieutaea senticosa
✓ Hoplostethus
Phycis very young
✓ Glyptocephalus cynoglossus

TEMPERATURE RECORD.

Instrument used, Trawl.

Current number of observation, 1045.

Date, Oct. 10, 1881.

Locality, Off Capes of Delaware.

Bearings, Lat. 38° 35′ N.,
Lon. 73° 13′ W.

Time of day, 9.32 a.m.; of tide,

State of sky, partly cloudy.

Temperature of air, 67

" surface of water, 66

" at depth of 5 fathoms, 66

" of bottom, 40

Depth, in fathoms, 312

Nature of bottom, gray mud.

Direction of ~~surface current~~, wind, NNW.

Force of ~~surface current~~, " 3

Direction of ~~bottom current~~, drift, W 3/4 N, 3/4 m.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

✓ Peristedium miniatum
Phycis very young
✓ Macrurus carminatus

TEMPERATURE RECORD.

Instrument used, Trawl.

Current number of observation, 1046.

Date, Oct. 10, 1881.

Locality, ~~Lat. 38° 33' N~~ Off Capes of Del.

Bearings, Lat. 38° 33' N.
Lon. 73° 18' W.

Time of day, 11.14 A.M.; of tide,

State of sky, Clear.

Temperature of air, 66

" surface of water, 66

" at depth of 5 fathoms, 65

" of bottom, 57.

Depth, in fathoms, 104

Nature of bottom, Sand

Direction of ~~surface current~~, wind; N.

Force of ~~surface current~~, " ; 4

Direction of ~~bottom current~~, drift, WNW., 3/4 m.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

✓ Peristedium miniatum
✓ Myxine glutinosa
✓ Scorpaena
✓ Merlucius bilinearis
✓ Hyphalonedrus Chalybeius
Raia young
✓ Citharichthys arctifrons
✓ Macrurus carminatus
✓ Glyptocephalus cynoglossus

Living specimen of Dolium.

TEMPERATURE RECORD.

Instrument used, Trawl.

Current number of observation, 1047.

Date, Oct. 10, 1881.

Locality, Off Capes of Delaware.

Bearings, Lat. 38° 31′ N.
Lon. 73° 21′ W.

Time of day, 12.15 P.M.; of tide,

State of sky, Clear

Temperature of air, 69

" surface of water, 66

" at depth of 5 fathoms, 65

" of bottom, 49

Depth, in fathoms, 15-6

Nature of bottom, Sand

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

Force ~~of surface current~~, " , 4.

Direction of ~~bottom current~~, drift, NW., 1½ m.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

✓ Nemichthys scolopaceus
✓ Slomias ferox
✓ Chauliodus Sloanii
✓ Gonostoma denudata

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1048

Date, Oct. 10, 1881.

Locality, Off Capes of Delaware.

Bearings, Lat. 38° 29′ N.
Lon. 73° 21′ W.

Time of day, 1.55 P.M. of tide,

State of sky, Clear.

Temperature of air, 71.

" surface of water, 66

" at depth of 5 fathoms, 65

" of bottom, 40

Depth, in fathoms, 435

Nature of bottom, Mud

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

Force of ~~surface current.~~ " , 4

Direction of ~~bottom current~~, drift, W, 2 m.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

✓ Simenchelys parasiticus
✓ Halieutaea senticosa
✓ Synaphobranchus pinnatus
✓ Nemichthys scolopaceus
✓ Lycodes Verrillii
✓ Cottunculus torvus
Lycodes young
✓ Cottunculus microps
✓ Macrurus Bairdii
✓ Phycis Chesteri
✓ Merluccius bilinearis
✓ Lophius piscatorius
✓ Glyptocephalus cynoglossus

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1049

Date, Oct. 10, 1881.

Locality, Off Capes of Delaware.

Bearings, Lat. 38° 28′ N.
Lon. 73° 22′ W.

Time of day, 3.30 P.M.; of tide,

State of sky, Clear

Temperature of air, 68

" surface of water, 66

" at depth of 5 fathoms, 66

" of bottom, 40

Depth, in fathoms, 435

Nature of bottom, Mud

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

Force of ~~surface current,~~ " , 4.

Direction of ~~bottom current,~~ drift, NNW., 2 m.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used.

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

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REMARKS.

☞ *Congress, at its last session, having passed an act (taking effect May 1, 1879,) "Official Postage Stamps," the Envelopes contained in this shipment are prepared after that date. Should it become necessary to use them BEFORE THAT TIM. MUST be affixed.*

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