

VOL II

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,

Haul 962

The trawl hauls from 955 to 961 inclusives contained very nearly the same things.

11/4 m

Instrument used,
Current number of observation, 962
Date, Aug. 26, 1881 Locality, Off naushon
Bearings, Troepicket Id. N & 3/4 &
Time of day, 3,10 P.W.,; of tide, flood
State of sky, Clear
Temperature of air, 71
" surface of water, 68
" at depth of fathoms,
" of bottom, 66
Depth, in fathoms, &
Nature of bottom, Blk md, +5d.
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,

Name and position of observer,

Name and rank of commanding officer,

To what service attached,

963 Dridge

Section and the section of the secti

Contained no Sish.

Instrument used,
Current number of observation, 963
Date, Aug. 26, 1887
Locality, Off naushon
Bearings, Woepecket Id. 58 1/2 S /m
Time of day, 3, 40 P.M.; of tide, flood
State of sky, Clear
Temperature of air, 70
" surface of water, 68
" at depth of fathoms,
" of bottom, 66
Depth, in fathoms, 8 1/2
Nature of bottom, Blue md.
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 position of observer,

Name and rank of commanding officer,

Haul 964 Dredge

Aug. 29 while at anchor at Hyannis very large schools of young Chirostoms were seen alongside; young Poronotus was caught under jellyfish; a male syngnathus with pouch full of young was captured alivo, On putting it in water some of the young were freed and wiggled about quite briskly.

Instrument used,

Current number of observation, 964

Date, Aug. 30, 1887
Locality, Off Chatham
Date, Aug. 30, 1887 Locality, Off Chatham Bearings, Chatham Late, 77 n n 1/2 n 5
Time of day, 7, 50 a.W.; of tide, Sob
Time of day, 7, 50 a.m.; of tide, Ebb. State of sky, Clear
Temperature of air, 65
" surface of water, 6/
" at depth of fathoms,
" of bottom, 55
Depth, in fathoms, /O
Nature of bottom, A + gr.
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,

Naul 965 Bredge.

Instrument	used,		

Current number of observation, 965

Date, Aug. 30, 1887.

Locality, Off Chatham.

Bearings, Chatham Late nr xr 6m

Time of day, 8. 15 a. W; of tide, Eff

State of sky,

Temperature of air,

surface of water,

at depth of fathoms.

of bottom.

Depth, in fathoms, /5

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,

Haul 966

Dredge

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Ins	tru	m	en	tι	18	ed.

Current number of observation, 966

Date, Aug. 30, 1881,
Locality, Off Chathans
Bearings, Chatham Lgt. H

N N × N 1/4 N 6 1/4 m

; of tide, Eld-Time of day, 8,40

State of sky,

Temperature of air,

surface of water.

at depth of fathoms,

of bottom,

16 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,

Haul 967 Dredge.

Instrument used,
Current number of observation, 967
Date, Aug. 30, 1887
Locality, Off Chatham
Bearings, Chatham Lgt, A. N m x m 1/4 m 6 3/4 m
Time of day, 8.50 ; of tide,
State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms, 16

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,

968

Dredge

16

Instrument used,
Current number of observation, 968
Date, Aug. 30, 1887
Locality, Off Chatham
Bearings, Chatham Lgt. H.
Bearings, Chatham Lgt. H. Nmxm 3/4 m 4/4 m.
Time of day, 9 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,

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,

Haul 969

Dredge

Instrument used,
Current number of observation, 969
Date, Aug. 30, 1881,
Date, Aug. 30, 1881. Locality, Off Chatham
Bearings, Chatham Lgt, A.
nnxn3/4n 8m
Time of day, 9, 10 a, m of tide,
State of sky

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms, 18

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,

Haul 970 Dredge

Pleuronectes amer. (med. size) / annelides, crustacea + a very small starfish in stomach

73

Current number of observation, G70
Date, Aug. 30, 1881, Locality, Off Chatham
Locality, Off Chatham
Bearings, Chatham Loft, A.
mnm 3/4 m 6 m.
Time of day, 9,43 a.w.,; of tide,
State of sky,
Temperature of air,
" surface of water,
" at depth of fathoms,
" of bottom,
Depth, in fathoms, /3
Nature of bottom,
Direction of surface current,

Name of vessel,

Instrument used,

To what service attached,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name and rank of commanding officer,

Haul 971 Dredge

Instrument used,
Current number of observation, 971
Date, Aug 3v 1887
Locality, Off Chatham
Bearings, Chatham Lgt, A.
m3/4 m 41/4 m.
Time of day, / O, OS- Q. M.; of tide,
State of sky,
Temperature of air, 67
" surface of water, 6/, 5-
" at depth of fathoms,
" of bottom, 54
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,
Γο what service attached,

Name and position of observer,

Name and rank of commanding officer,

Haul 972 Dredge

Eumesogrammus subbifurcatus

TEMPSELTURE REDORD

Instrument used,
Current number of observation, 972
Date, Aug. 30 1881 Locality, Off Chatham
Bearings, Chatham Lat. H.
nmxm7/8m 7/2m.
Time of day, 10, 18 A. M; of tide,
State of sky, Clear
Temperature of air, 67
" surface of water, 62
" at depth of fathoms,
" of bottom, 5-2
Depth, in fathoms, 16
Nature of bottom, gr, s. + st.
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
Γο what service attached,

Name and position of observer,

Name and rank of commanding officer,

Haul 973 Dredge,

Instrument used,
Current number of observation, 973
Date, Aug. 30, 1881 Locality, Off Chatham Bearings, Chatham Laft. H. M. M. M. 63/4 m
Locality, Off Chatham
Bearings, Chatham Lat. H.
mn m 63/4 m
Time of day, //, /D ; of tide,
State of sky,
Temperature of air,
" surface of water,
" at depth of fathoms,
" of bottom,
Depth, in fathoms, /7
Nature of bottom, Or, J. + At, Direction of surface current,
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,

Haul 974 Dredge.

Instrument used,
Current number of observation, 974
Date, Que 30 1887.
Locality, Off Chatham
Bearings, Chatham Lat H
Date, Que, 30, 1887, Locality, Off Chatham Bearings, Chatham Last, H Mnn 1/2 N 61/2
Time of day, //, 30 ; of tide,
State of sky,
Temperature of air, 67
" surface of water, 62
" at depth of fathoms,
" of bottom, 5/
Depth, in fathoms, /6
Nature of bottom, gr., S. + St.
Direction of surface current,
Force of surface current,

Name of vessel,

To what service attached,

Direction of bottom current,

Force of bottom current,

Name and rank of commanding officer,

Haul 975 Dredge.

Instrument used,
Current number of observation, 975
Date, Aug. 30, 1881.
Bearings, Chathan Lat, A.
mnm1/4m 6/4m,
Time of day, //, 445 ; of tide,
State of sky, Clear
Temperature of air, 68
" surface of water, 63
" at depth of fathoms,
" of bottom, 52
Depth, in fathoms, /6
Nature of bottom, gr. A. + ot.
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,

Haul 976 Dredge.

Instrument used,
Current number of observation, 946
Date, Aug. 30, 1881.
Locality, Off Chatham
Bearings, Chatham Lgt,
mnn 5/8 m 6m
Time of day, now ; of tide,
State of sky, Clear
Temperature of air, 69
" surface of water, 63
" at depth of fathoms,
" of bottom, 52
Depth, in fathoms, //
Nature of bottom, gr 5 + 54
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,

Haul 977 Dredge

Instrument used,
Current number of observation, 977.
Date, Aug. 30, 1881
Date, Aug. 30, 1881 Locality, Off Chatham
Bearings, Chatham Lgt.
mnm 5m
Time of day, /2,20; of tide,
State of sky, Clear
Temperature of air, 70
" surface of water, 64
" at depth of fathoms,
" of bottom, 52
Depth, in fathoms, 17
Nature of bottom, 97, S. + St.
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
Γο what service attached,

Name and position of observer,

Name and rank of commanding officer,

Haul 978 Dredge

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,

Haul 979 Dredge

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,

980 Dredge

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,

Trawl 981 Hopoglofandes many-Plages Chuss -Rain radiata Coffus 18- Spinosus Inglops Pingelin's species muraenvides Zoarcy, merlacius aspidophorades Sebastes Raia eglanteña

Instrument used,
Current number of observation, 987
Date, Aug. 30, 1887
Locality, Off Chalkann
Bearings, Chatham Lat
m.n. m. 16 m
Time of day, 2,10 ; of tide,
State of sky, Clear
Temperature of air, 65
" surface of water, 63.5
" at depth of fathoms,
" of bottom, 49
Depth, in fathoms, 4/
Nature of bottom, Sd + gravel
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,

Name and position of observer,

Name and rank of commanding officer,

Haul 982 Frank

Rain padiata ad + pin
eglanteria

Hippoglossoides

Triglops Pingelii

Merleccios jur.

Lipanis

Instrument used,
Current number of observation, 982
Date, Aug. 30 1881 Locality, Off Chatham
Bearings, Lat 41 36
Lon 69 35
Time of day, 2, 45 ; of tide,
State of sky, Clear
Temperature of air, 65
" surface of water, 63, J
" at depth of fathoms,
" of bottom, 41.5
Depth, in fathoms, 40
Nature of bottom, A, +gr.
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,

Name and position of observer,

Name and rank of commanding officer,

To what service attached,

Haul 983

Raia eglan. large 8 3

Pleuronectes amer. 1

Hippoglossids 2

Gadus morrhun jur.

Merlucius 1

Triglops

Lipanis

Aspidoplorvides

Instrument used,
Current number of observation, 98
Date, Aug 30 10
Date, Aug 30 10 Locality, Lat 41 30
Bearings, Lon 69 32
/
Time of day, 3,23; of tide,
State of sky, Clear
Temperature of air, 64,5
" surface of water, 64
" at depth of fathoms,
" of bottom, 42
Depth, in fathoms, 35
Nature of bottom, Sd,
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 position of observer,

Name and rank of commanding officer,

Haul 984

Limanda ferrig	3
Hippoglossindes	3
Cottus 18-sp	2
ammodytes	1
Lipans	3
Raia ocellata 3+9	2

Instrument used,
Current number of observation, 982
Date, aug. 30, 1887.
Locality, Lat, 41 31
Current number of observation, 987, Date, Oug 30, 1887, Locality, Lat, 41 31 Bearings, Lon 69 28 32
Time of day, 4.07; of tide, State of sky,
State of sky,
Temperature of air, 64
" surface of water, 63.J
" at depth of fathoms,
" of bottom, H, J
Depth, in fathoms, 32
Nature of bottom, Sol + mod
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,

Haul 985.

Melanogrammus	juv.	1
Squalus acanthias	"	2
Paralichthys oblongus		many
Limanda ferruginea		4
Cottus 18-spinosus		3
Hemitripterus		2
Phycis tenuis		many
Merlucius		2
Raia ocellita?	9 2	(jaws)
" laevis jur.		3
n agla erinaces		1
Liparis juv. in !	Peoten	/
	The second second	

Instrument use	ed,
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Current number of observation, 983

Sept. 7, 1880 Off noman's Land

Bearings,

Time of day, /, O & P.W; of tide,

Clear (slight haze) State of sky,

Temperature of air,

surface of water, 66

at depth of fathoms,

of bottom, 57)

Depth, in fathoms, 25

Nature of bottom, Ad.

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,

Haul 986

Gadus moorhua juv.	2
Paralichthys oblongus	9
Limanda ferruginea	9
Phycis tenuis	22
Zoarces anguillaris	1
Raia 2 black ocelli laevis?	1
Rais laevis? juv.	2
Cothes 18-Spin.	2
merlucius	2

Instrument	used,	
Current nun	nber of observation,	986
Date,	Sept. 7,	1881.
Locality,	40°55'	
Bearings,	700481	

Time of day, 2 PM; of tide,
State of sky,
Clear
Temperature of air, 73
" surface of water, 67

' at depth of fathoms,

b

" of bottom, 49

Depth, in fathoms, 27
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,

Haul 987 Rake Dredge

Phycis tennis jur. /
Cottus 18-spin. very jur. 4 &
Hippoglossoides? a n

Instrument used,

Current number of observation, 987
Date, Sept. 7 18
Date, Seft. 7, 18 Locality, Ogg noman
Bearings, 40° 5-4'
Bearings, 40°54' 70°48'30"
Time of day, 2, 28 P. W of tide,
State of sky, Clear
Temperature of air, 73
" surface of water, 67
" at depth of fathoms,
" of bottom, 449
Depth, in fathoms, 27
Nature of bottom, Sd.
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,

Haul 988 Rake Dredge

or commence

Instrument used,
Current number of observation, 988
Date, Sept. 7 1881.
Date, Sept. 7, 1887, Locality, Off Noman's Ld
Dearings, 40 49 30
700 471
Time of day, 3.30 P. W. of tide,
State of sky, Clear
Temperature of air, 73
" surface of water, 67
" at depth of fathoms,
" of bottom. /19 (-

Depth, in fathoms,

20

Nature of bottom,

Sd

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,

Haul 989

Lophius piscatorius	1
01 1 + .	many
Elyptocephalus cynog. (medium)	
Paralichthys oblongus, few s	many
Raia laevis? juv.	1
Limanda ferruginea	/
Hypoglossoides juv.	1
Cottus 18- spin. "	4
Phycis tennis? very jur, in Pecte	n .
Phycis tennis? very jur, in Pecte	5
the state of the s	

Instrument used,
Current number of observation, 989
Date, Sept. 7, 1881.
Date, Sept. 7, 1887. Locality, Off noman: Ld
Bearings, 40°49'
700471
Time of day, 3.56 PM; of tide,
State of sky, Clear
Temperature of air, 73
" surface of water, 67
" at depth of fathoms,
" of bottom, 49,5
Depth, in fathoms, 29
Nature of bottom, Sd
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Vame of vessel,
o what service attached,
THE WATER Y

Name and position of observer,

Name and rank of commanding officer,

Haul 990

Lophius pisc. I lge. + 2 small
Enchelyopus cimbrius few
Phycis tenuis many
Glyptocephalus few
Limanda ferrug, few
Paralichthys oblongus few
Merlucius jun. /
Citharichthys arc.

19.47

21

sorthin.

Instrument used,
Current number of observation, 990
Date, Sept. 7, 1881.
Locality, Off nomans Ld
Bearings, 40° 444'
700471
Time of day, 5.05 P. M; of tide,
State of sky, Clear
Temperature of air, 7/,5
" surface of water, 66
" at depth of fathoms,
of bottom, 47
Depth, in fathoms, 33
Nature of bottom, gu and + 5d
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
Fo what convice attached

Name and position of observer,

Name and rank of commanding officer,

Haul 991 Frank No fish

11.

Instrument used,
Current number of observation, 991
Date, Sept. 7 1881.
Locality, Of Moman's Land
Date, Lept. 7, 1881. Locality, Off Momans Land Bearings, 40°39' 70°46'
40 46
Time of day, 6.05 PM; of tide,
State of sky, Clear
Temperature of air, 70
" surface of water, 66
" at depth of fathoms,
" of bottom, 47,5
Depth, in fathoms, 33
Nature of bottom, gn md + del
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 position of observer,

DER. YO

Name and rank of commanding officer,

Haul 992

Hippoglossides	juv,	1
Limanda ferrig.		2
Paralichthys oblongus		1
Phycis temis		mi
Tadus morrhua	w.	many
Lipans in Pecten	tenuic.	12 +

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and Charles

Instrument used,
Current number of observation, 992
Date, Sept. 7, 1887.
Locality, Off noman's Land
Bearings, 40° 33' %0° 45'
40° 45'
Time of day, 7,35 P, M,; of tide,
State of sky, Clear
Temperature of air, 69
" surface of water, 65
" at depth of fathoms,
" of bottom, 48
Depth, in fathoms, 35
Nature of bottom, gn md + sd
Direction of surface current,
Force of surface current,
Direction of bottom current,

Name of vessel,

To what service attached,

Force of bottom current,

Name and rank of commanding officer,

Haul 993.

Enchelyopus cimbrius 8
Milanogrammus large /
Lophius /
Wiffoglossoides few
Merlucius /
Phycis tennis many
Limanda ferrug.
Lipans from Pecter tennic, 15

151 (0)

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3000

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Instrument used,
Current number of observation, 993
Date, Sept. 7, 1881.
Locality, off noman's La Bearings, 40° 28' 7
Bearings, 40 28
Time of day, 8, 24 PM; of tide,
State of sky, Clear
Temperature of air, 69
" surface of water, 65
" at depth of fathoms,
" of bottom, 46.5
Depth, in fathoms, 37
Nature of bottom, md.
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,
The Marie Land Land

Haul 994

v Glyptocephalus	1	many
v Maorurus Bairdio		moderate
v Phycis Chesteri		3
Y Synaphobranchus		15
V Centroscyllium	9	/
V Collinculus torons		1
· anitra		2
Congragadid n.g.		1
Sternsptychid		1
v Scopelus		2
· Lycodes Derrillii		3
V Cottunculus micropis ju	-,	1

Instrument used,	
Current number of observation, 994	
Date, Sept. 8, 1887.	
Locality, & & m/4 m from Gay	Head
Bearings, 1041/2 m. 390	40'
710	30'
Time of day / Ca A We: of tide	

State of sky,

Temperature of air, 72

surface of water, 68

at depth of fathoms,

of bottom, 40.5

Depth, in fathoms, 357 368

Nature of bottom, 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,

Haul 995 Light haul

V Scopelus 2+3

V Sternoptychid 4

V Stomias 1

Congregadid n.g. 1

Contract.

405.

April 1971

4 25

Instrument used,
Current number of observation, 995
Date, Sept. 8, 1887.
Locality, SSW /4 W from Gay Head
Bearings, 1041/2 m 39° 40′ 30′ 71° 31′
Time of day, 6.32 ; of tide,
State of sky, Hazy + cloudy
Temperature of air, 72
" surface of water, 68
" at depth of fathoms,
" of bottom, 43.5
Depth, in fathoms, 345 358
Nature of bottom, yellow md + fd
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
Fo what service attached.

Name and position of observer,

Name and rank of commanding officer,

Haul 996 R. Dredge

Instrument used,
Current number of observation, 996
Date, Sept. 8, 1881.
Locality, SSW 1/4 W from Lay Head
Bearings, 104 1/2 m 39°41' 71°31'37"
39°41' 71031'34"
Time of day, 7,35 a.m.; of tide,

Temperature of air,

State of sky,

" surface of water, 67,5"

at depth of fathoms,

of bottom, 40

Depth, in fathoms, 346

Nature of bottom, y, m, sd

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

- 3-1-6

To what service attached,

Name and rank of commanding officer,

Haul 997

V Phycis Chesten mod. v Lophius / V Glyp Tocephalus mod v Phycis tenuis · Macrurus Bairdie mod vHalientara senticosa · Nemichthys Synaphotranchus few Scopelus Sternoptychid · amitra 4 VLycodes Verrillii 4 Phycis Chesten strmachs were nearly all crammed with amphipods, Ryl. caeca of one ex-amined 17, long + slender, Perstoneum black.

Instrument used,

Current number of observation, 997

Date, Sept. 8, 1881.

Locality, SS Nr 1/4 Nr from Gay Head

Bearings, 103 1/2 m
39° 42' 71° 32'

Time of day, 9, 03 a, W; of tide,

State of sky,

Temperature of air, 75-

" surface of water, 67.5

at depth of fathoms,

of bottom, 40

Depth, in fathoms, 322 335

Nature of bottom, yel, md

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,

Haul 998.

Volycis tennis

n Chesteri few

Macrurus Bairdii few

Large 6

Valyptocephalus

Synaphobranchus

1

Syraphobranchus

'Lycodes Vahlii? /

V m Verrillii 2

*Cottunculus

*Amitra Careprootus /

Raia juv. 3

Lycodes bighead " /

Enchelyopus cimbrius /
Brown ? Hoplosteth very juv. (ming) /
Sternoptyshiol (wings) /

Current nu	mber of observation	n, 998	
Date,	Sept. 8,		p ³
		W from Fa	y Head
Bearings,			
	390431	- m.	1

Time of day, 10,34 a. Wi of tide,

State of sky, Hasy Temperature of air, 74

Instrument used.

" surface of water, 68

" at depth of fathoms,

" of bottom, 40

Depth, in fathoms, 289 302

Nature of bottom, Gn. md,

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,

Haul 999 R. - Dredge.
Macrurus Bairdii jur. 1
Lycodes Verrillii 1

Instrument used,
Current number of observation, 999
Date, Sept, 8, 1881.
Locality, SSW 1/4 W from Gay Head
Bearings, 100 m. 39° 45' 13" 71° 30'
Time of day, //, 48 A. W; of tide,
State of sky, Hazy
Temperature of air, 73
" surface of-water, 68
" at depth of fathoms,
" of bottom, 50 (?)
Depth, in fathoms, 256 266
Nature of bottom, Gn. md,
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,

A firm of the Property

Phycis Chesten great many
v Merheins
Phycis tennis
Phycis tennis
Phycis tennis
Phycis tennis
Macrurus Bairdii many
Macrurus Bairdii many
Macrurus Bairdii many
Macrurus Pew
Lyco des Verrillii
Nemiohthys
Halientäen senticosa juv.
Hoplostethus
Rain egg small

Instrument used,
Current number of observation, 1025
Date, Dept. 8, 1881,
Locality, SSW 1/4 m from Lay Head
Bearings, 95 m
Bearings, 95 m.
Time of day I A - P W . of tide

Time of day, 1.05-P. W, ; of tide,

State of sky, Clear

Temperature of air, 70

" surface of water, 69

at depth of fathoms,

of bottom, 45

Depth, in fathoms, +97 216.

Nature of bottom, In, md

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,

Haul 1026

Phycia Chesteri Merlucias Phycis tenus Shyptocephalux few macrurus Bairdo many " carminatus few Lycodes verrillii nemichthys/ Halientaeg senticosa Brama? Juv. Raja egg small Vrycis Chesten many Macrurus Bairdie? 4 V a Carminatus 4 1 Scopelus Hoplostethus jur. Merlucius

Instrument used,
Current number of observation, 1026
Date, Sept. 8, 1881,
Locality, SSW 1/4W from Lay Head
Bearings, 93 1/2 m 39° 50′ 30″ 71° 23′
Time of day, 2, 55 P. M.; of tide,
State of sky, Clear
Temperature of air, 69
" surface of water, 69
" at depth of fathoms,
" of bottom, 47.5
Depth, in fathoms, 175 182
Depth, in fathoms, 475 182 Nature of bottom, In M.
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,

Haul 1027

Phycis chuss Raia erinacea &

Harperson of the second of the

Marie Paris Contraction of the C

T		2	used.
Inst	וודוויו	ent	DOSEIL

Current number of observation, 7027

Date, Sept. 14, 1881

Locality,

Bearings, Lat. 40° 00' n. Lon. 69° 19' W.

Time of day, 7.23 a.m.; of tide,

State of sky, Clear

Temperature of air, 6/

" surface of water, 65

" at depth of 5 fathoms, 66

" of bottom, 48.5

Depth, in fathoms, 93

Nature of bottom, fine 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,

Haul 1028,

Synaphobranchus pinnatus 45 Macrums Bairdir (alljing, but one) 19 Coryphaenoides (28926) V Lycodes Verrillii /
V n short snout /
Phycis Chesteri 7
V Llyptocephalus agnoglossus 2 juv. + 1 med.
V Lcopelus (in wings) / Physis Chesten pyl, caeca - 13, 13 Coryphaenoides stomach - amphipods Synaphobranchus & full of eggs

Instrument used. Current number of observation, 102,8 Date, Sept. 14, 1881, Locality. Bearings, N. lat. 39° 57' W. lon. 69° 17 Time of day, 9. 01 a. m.; of tide, State of sky, Clean Temperature of air, 66.5 surface of water, " at depth of fathoms, 66 " of bottom, 4/ Depth, in fathoms, 410 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 position of observer,

Name and rank of commanding officer,

etrack 102

Haul 1029

Haloporphyms viola jur. 3 Coryphaenoides mostly juv. 52 Macrons Bandi 14 \$ 17 large / Phycis Chesten Lynaphobranchus Merlucius jur. 1 1 Scopelus "Centros cyllinim & Cottinculus torus 6j. + 8 med. Slyptocephalus Volycodes Verrillin' W is short head Sternoptychid

Instrument used,
Current number of observation, 1029
Date, Sept. 14, 1881.
Locality,
Bearings, n. lat. 39° 57'
W. lon. 69° 16'
Time of day, /2 . /3 horn; of tide,
State of sky, Clear
Temperature of air, 72
" surface of water, 68
" at depth of 5 fathoms, 6 6
" of bottom, 40
Depth, in fathoms, 45
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 position of observer,

Name and rank of commanding officer,