



Vol 2



REMARKS.

Haul 962

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

# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 962

Date, Aug. 26, 1881

Locality, Off Nausahon

Bearings, Meepecket Id. N E  $3/4$  E 1  $1/4$  m

Time of day, 3.10 P.M.; 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, 8

Nature of bottom, Blk md. + 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,

Name and position of observer,

REMARKS.

903 June 1

1. 42 of 100

2. 100

# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 963

Date, Aug. 26, 1887

Locality, Off Nausahon

Bearings, Noepectet Id. SE  $\frac{1}{2}$  S 1 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,  $8\frac{1}{2}$

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 rank of commanding officer,

Name and position of observer,

## REMARKS.

Haul 964 Dredge

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



# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 964

Date, Aug. 30, 1881

Locality, Off Chatham

Bearings, Chatham Lgts. ~~47~~ N N 1/2 W 5 m

Time of day, 7.50 a.m. of tide, Ebb

State of sky, Clear

Temperature of air, 65

“ surface of water, 61

“ at depth of fathoms,

“ of bottom, 55

Depth, in fathoms, 10

Nature of bottom, s + 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,

Name and position of observer,

REMARKS.

Haul 965 Dredge.

# TEMPERATURE RECORD.

Instrument used.

Current number of observation, 965

Date, Aug. 30, 1881.

Locality, Off Chatham.

Bearings, Chatham Light N N x W 6 m

Time of day, 8.15 a.m.; of tide, Ebb

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms, 15-

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 966

Dredge.

# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 966

Date, Aug, 30, 1881,

Locality, off Chatham

Bearings, Chatham Lgt. N

N N x N 1/4 N 6 1/4 m

Time of day, 8.40 ; of tide, Ebb

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,

Name and position of observer,

REMARKS.

Haul 967 Dredge.

# TEMPERATURE RECORD.

Instrument used,  
Current number of observation, 967  
Date, Aug. 30, 1881  
Locality, Off Chatham  
Bearings, Chatham Lgt. H.  
N N x N 1/4 N 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,  
Name and position of observer,

REMARKS.

968

Dredge



# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 968

Date, Aug. 30, 1881

Locality, Off Chatham

Bearings, Chatham Lgt. H.

N  $\pi$  x  $\pi$   $\frac{3}{4}$   $\pi$   $\frac{1}{4}$  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, 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,

Name and position of observer,

REMARKS.

Haul 969

Dredge

# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 969

Date, Aug. 30, 1881.

Locality, Off Chatham

Bearings, Chatham Lgt. H.

$N \ N \times \ N \ 3/4 \ N$  8 m.

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,

Name and position of observer,

REMARKS.

Haul 970

Dredge

*Pleuronectes amer.* (med. size) 1  
Annelides, crustacea + a  
very small starfish in stomach.

# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 970

Date, Aug. 30, 1881,

Locality, Off Chatham

Bearings, Chatham Light H.

N N N  $\frac{3}{4}$  W 6 m.

Time of day, 9.43 A.M.; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms, 13

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 971

Dredge

# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 971

Date, Aug 30 1887

Locality, Off Chatham

Bearings, Chatham Lgt. H.

$N 3/4 \text{ } \cancel{W} \text{ } N$   $4 1/4 \text{ m.}$

Time of day, 10.05 a.m.; of tide,

State of sky,

Temperature of air, 67

“ surface of water, 61.5

“ 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,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 972

Dredge

*Eumeces grammurus subbifurcatus* 1



# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 972

Date, Aug. 30 1881

Locality, Off Chatham

Bearings, Chatham Lgt. H.

N  $\pi$  x  $\pi$   $7/8$   $\pi$   $7\frac{1}{2}$  m.

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, 52

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,

To what service attached.

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 973 Dredge,

# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 973

Date, Aug. 30, 1881

Locality, Off Chatham

Bearings, Chatham Light. N. N. W. 6 3/4 m

Time of day, 11.10 ; of tide,

State of sky,

Temperature of air,

“ surface of water.

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms, 17

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,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 974 dredge.

# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 974

Date, Aug. 30, 1887,

Locality, Off Chatham

Bearings, Chatham Lgt., N.,  
N N N 1/2 N 6 1/2 m.

Time of day, 11, 30 ; of tide.

State of sky,

Temperature of air, 67

" surface of water, 62

" at depth of fathoms,

" of bottom, 51

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,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 975 Dredge.

# TEMPERATURE RECORD.

Instrument used,  
Current number of observation, 975  
Date, Aug. 30, 1881.  
Locality, Off Chatham  
Bearings, Chatham Lgt. H.  
N N N 1/4 N 6 1/4 m.  
Time of day, 11.45 ; of tide,  
State of sky, Clear  
Temperature of air, 68  
" surface of water, 63  
" at depth of fathoms,  
" of bottom, 52  
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,  
To what service attached,  
Name and rank of commanding officer,  
Name and position of observer,

REMARKS.

Haul 976

Dredge.



# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 976

Date, Aug. 30, 1881.

Locality, Off Chatham

Bearings, Chatham Lgt. 60m  
N 72 W 5/8 N

Time of day, noon ; of tide.

State of sky, Clear

Temperature of air, 69

" surface of water, 63

" at depth of fathoms,

" of bottom, 52

Depth, in fathoms, 16

Nature of bottom, gr 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 977

Bridge

# TEMPERATURE RECORD.

Instrument used.

Current number of observation, 977.

Date, Aug. 30, 1881

Locality, Off Chatham

Bearings, Chatham Lgt.

N N W 5 m

Time of day, 12,20 ; 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, gr., 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 978 Oredge



REMARKS.

Haul 979

Dredge

## 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.

980

Dredge



## 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.

Trawl 981

Hippoglossoides	many-
Phycis chuss-	2.
Raja radiata	3
Cottus 15. spinosus	.
Trogloporus Pizgolin	many
Liparis	2 species
Muraenoides	1
Zoarces	juv
Merluccius	"
Aspidophoroides	1
Sebastes	"
Raja eschmutteria	

# TEMPERATURE RECORD.

Instrument used,  
Current number of observation, 981  
Date, Aug. 30, 1881  
Locality, Off Chatham  
Bearings, Chatham Light  
N. N. W. 16 m.  
P. 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, 41  
Nature of bottom, Sd + gravel  
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 982 Trawl

Rain radiato. ad + juv  
 - eglauteria

Hippoglossoides

Tinglops Pingelii

Merluccius juv.

Liparis

# TEMPERATURE RECORD.

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, 63.5

" at depth of fathoms,

" of bottom, 41.5

Depth, in fathoms, 40

Nature of bottom, S. + G. r.

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 983

Raia eglan.	large ♂	3
" rad.	juv	1
Pleuronectes amer.		1
Hippoglossidae		2
Gadus morhua	juv.	
Melucina	"	
Trioppe		
Liparis		
Aspidopteridae		

# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 983

Date, Aug 30 1881

Locality, Lat 41 30

Bearings, Lon 69 32 34

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 rank of commanding officer,

Name and position of observer,

REMARKS.

Haul 984

<i>Limanda ferrug</i>				3
<i>Hippogrosside</i>				1
<i>Cottus</i> 18-sp				1
<i>Ammodytes</i>				1
<i>Liparis</i>				3
<i>Raja ocellata</i>	♂	<	♂	2



# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 9824

Date, Aug. 30, 1881.

Locality, Lat. 41 31

Bearings, Lon 69 28 32

Time of day, 4.07 ; of tide,

State of sky, Clear

Temperature of air, 64

" surface of water, 63.5

" at depth of fathoms,

" of bottom, 41.5

Depth, in fathoms, 32

Nature of bottom, Sol & 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 985.

Melanogrammus	juv.		1
Squalus acanthias	"		2
Paralichthys oblongus			many
Limanda ferruginea			4
Cottus 18-spinosus			3
Hemirhamphus			2
Physiculus tenuis			many
Merluccius			2
Raia ocellata?	♀	2	(jaws)
" laevis	juv.		3
" <del>sp.</del> crinacea?			1
Liparis	juv. in <u>Pecten</u>		1

# TEMPERATURE RECORD.

Instrument used.

Current number of observation, 985

Date, Sept. 7, 1880

Locality, Off No man's Land

Bearings, 41° 00'  
30° 49'

Time of day, 1.05 P.M.; of tide,

State of sky, Clear (slight haze)

Temperature of air, 73

" surface of water, 66

" at depth of fathoms,

" of bottom, 50

Depth, in fathoms, 25

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,

Name and position of observer,

## REMARKS.

Haul 986.

<i>Gadus morhua</i> juv.	2
<i>Paralichthys oblongus</i>	9
<i>Limanda ferruginea</i>	9
<i>Phycis tenuis</i>	22
<i>Goarces anguillaris</i>	1
<i>Raia</i> 2 black ocelli <u><i>laevis</i></u> ?	1
<i>Raia laevis</i> ? juv.	2
<i>Cottus</i> 18-spine	2
<i>Merluccius</i>	2

# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 986

Date, Sept. 7, 1881.

Locality, 110° 55'

Bearings, 70° 48'

Time of day, 2 PM ; of tide,

State of sky, Clear

Temperature of air, 73

“ surface of water, 67

“ at depth of fathoms,

“ of bottom, 49

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,

Name and position of observer,

REMARKS.

Haul 987 Rake Dredge

Phycis tenuis	juv.		1
Cottus 18-spin.	very juv.	4	<del>2</del>
Hippoglossoides?	" "		1

# TEMPERATURE RECORD.

Instrument used,  
Current number of observation, 987  
Date, Sept. 7, 1881.  
Locality, Off Norman's Id.  
Bearings,  $110^{\circ} 54'$   
 $70^{\circ} 48' 30''$   
Time of day, 2.28 P.M. of tide,  
State of sky, Clear  
Temperature of air, 73  
" surface of water, 67  
" at depth of fathoms,  
" of bottom, 49  
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,  
Name and position of observer,

REMARKS.

Haul 988 Rake Dredge



# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 988

Date, Sept. 7, 1881.

Locality, off Norman's Id.,

Bearings,  $140^{\circ} 49' 30''$   
 $70^{\circ} 47'$

Time of day, 3.30 P.M. 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,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

## REMARKS.

Haul 989

<i>Lophius piscatorius</i>		1
<i>Phycis tenuis</i>		many
<i>Glyptocephalus cynog.</i> (medium)		1
<i>Paralichthys oblongus</i>	few	<del>many</del>
<i>Raja laevis</i> ?	juv.	1
<i>Limanda ferruginea</i>		1
<i>Hippoglossoides</i>	juv.	1
<i>Cottus</i> 18- spin.	"	4
<i>Phycis tenuis</i> ?	very juv. in <u>Pecten</u>	
	<u>terrestris</u>	5

# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 989

Date, Sept. 7, 1881.

Locality, Off Roman's Ld

Bearings,  $40^{\circ} 49'$   
 $70^{\circ} 47'$

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,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

## REMARKS.

Haul 990

<i>Lophius pisc.</i>	1 large + 2 small	
<i>Enchelyopus cimbrius</i>		few
<i>Phycis tenuis</i>		many
<i>Glyptocephalus</i>		few
<i>Limanda ferrug.</i>		few
<i>Pseudichthys oblongus</i>		few
<i>Merluccius</i>	few.	1
<i>Urophycis</i>		1

# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 990

Date, Sept. 7, 1881.

Locality, Off Norman's Ld

Bearings,  $110^{\circ} 44'$   
 $70^{\circ} 47'$

Time of day, 5.05 P.M.; of tide,

State of sky, Clear

Temperature of air, 71.5

" surface of water, 66

" at depth of fathoms,

" of bottom, 47

Depth, in fathoms, 33

Nature of bottom, gn mud & 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,

Name and position of observer,

REMARKS.

Haul 991 Trawl

No fish

# TEMPERATURE RECORD.

Instrument used,  
Current number of observation, 991  
Date, Sept. 7, 1881.  
Locality, Off Norman's Land  
Bearings,  $40^{\circ} 39'$   
 $70^{\circ} 46'$   
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 mud & 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 992

Hippoglossoides	juv.	1
Limanda ferrug.		2
Paralichthys oblongus		1
Phycis tenuis		many
Gadus morhua	juv.	1
Liparis in <u>Pecten tenuis</u>		12 +



# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 992

Date, Sept. 7, 1881.

Locality, Off Norman's Land

Bearings,  $40^{\circ} 35'$   
 $80^{\circ} 45'$

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 mud + 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,

Name and position of observer,

## REMARKS.

Haul 993.

<i>Enchelyopus cimbrius</i>		8
<i>Melanogrammus</i>	large	1
<i>Lophius</i>		1
<i>Hippoglossoides</i>		few
<i>Merluccius</i>		1
<i>Physiculus tenuis</i>		many
<i>Limonia berong</i>		11
<i>capensis</i>	from <i>Lester tenuis</i> .	15

# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 993

Date, Sept. 7, 1881.

Locality, Off Norman's Land

Bearings,  $110^{\circ} 28'$   $70^{\circ} 44'$

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,

Name and position of observer,

## REMARKS.

Haul 994

✓ <i>Glyptocephalus</i>	many	
✓ <i>Macrurus Bairdii</i>	moderate	
✓ <i>Physis Chesteri</i>		3
✓ <i>Synaphobranchus</i>		15
✓ <i>Centrosyllium</i>	♀	1
✓ <i>Cottunculus torvus</i>		1
✓ <i>Amitra</i>		2
Conopogadid n.g.		1
✓ Sternoptychid		1
✓ <i>Scopelus</i>		2
✓ <i>Lycodes ferrillii</i>		3
✓ <i>Cottunculus microps juv.</i>		1

# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 994

Date, Sept. 8, 1887.

Locality, 1/4 mi from Gay Head

Bearings, 104 1/2 m. 39° 40'  
71° 30'

Time of day, 4.50 am; of tide,

State of sky,

Temperature of air, 72

" surface of water, 68

" at depth of fathoms,

" of bottom, 40.5

Depth, in fathoms, ~~351~~ 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,

Name and position of observer,

## REMARKS.

Haul 995 right haul

✓ Scopelus	2+3
✓ Sternoptychid	4
✓ Stomias	1
Congrogadid n.g.	1

# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 995

Date, Sept. 8, 1881.

Locality, S S W  $\frac{1}{4}$  W from Gay Head

Bearings,  $104\frac{1}{2}$  m  $39^{\circ} 40' 30''$   
 $71^{\circ} 11'$

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 + 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,

Name and position of observer,

REMARKS.

Haul 996

R. Dredge

nothing



# TEMPERATURE RECORD.

Instrument used,

Current number of observation,

996

Date,

Sept. 8, 1881.

Locality,

55 m  $\frac{1}{4}$  m from Gay Head

Bearings,

104  $\frac{1}{2}$  m

39° 41'      71° 31' 37"

Time of day, 7, 35 a.m.; of tide,

State of sky,

Temperature of air,

" 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,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

## REMARKS.

Haul 997

✓ <i>Phycis Chesteri</i>		mod.
✓ <i>Lophius</i>	ad.	1
✓ <i>Glyptocephalus</i>		mod.
✓ <i>Phycis Tennis</i>		1
✓ <i>Mora moro</i> <i>Boisdu</i>		mod.
✓ <i>Halicentura dentata</i>	juv.	1
✓ <i>Nemichthys</i>		2
✓ <i>Synaptobranchus</i>		few
✓ <i>Scopelus</i>		1
✓ <i>Sternoptylid</i>		1
✓ <i>Amitra</i>		4
✓ <i>Lycodes Veriellii</i>		4

Phycis Chesteri stomachs were nearly all crammed with amphipods. Pyl. caeca of one examined 17, long & slender. Peritoneum black.

# TEMPERATURE RECORD.

Instrument used.

Current number of observation, 997

Date, Sept. 8, 1881.

Locality, S S W 1/4 W from Bay Head

Bearings, 103 1/2 m  
29° 42' 71° 32'

Time of day, 9.03 A.M.; 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,

Name and position of observer,

## REMARKS.

Haul 998.

✓ <i>Physis tenuis</i>		1
✓ " <i>chesteri</i>		few
✓ <i>Merluccius</i>	large	6
✓ <i>Macrurus Bairdii</i>		few
✓ <i>Glyptocephalus</i>		"
✓ <i>Synaphobranchus</i>		"
✓ <i>Lycodes vahlii</i> ?		1
✓ " <i>verillii</i>		2
✓ <i>Cottunculus</i>		3
✓ <del><i>Amia</i></del> <i>Careproctus</i>		1
<i>Raia</i>	juv.	3
<i>Lycodes</i> big head	"	1
✓ <i>Enchelyopus cimbrius</i>		1
✓ <del><i>Brama</i></del> ? <i>Hoplostet</i> very juv. (wing)		1
✓ <i>Sternopterygoid</i>	(wings)	1

# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 998

Date, Sept. 8, 1881.

Locality, 55 N 1/4 W from Gay Head

Bearings, 102 1/2 W  
29° 40' 71° 30'

Time of day, 10.34 A.M. of tide.

State of sky, Hazy

Temperature of air, 74

“ 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,

Name and position of observer,

REMARKS.

Haul 999 R.-Dredge.

*Macurus Bairdii* juv. 1  
*Lycodes verrillii* 1

# TEMPERATURE RECORD.

Instrument used,  
Current number of observation, 999  
Date, Sept. 8, 1881.  
Locality, SSW 1/4 N from Gay Head  
Bearings, 100 m  
39° 45' 13"  
71° 30'  
Time of day, 11.48 a.m.; 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,

## REMARKS.

Haul 1025

✓ <i>Phycis Chesteri</i>	great many
✓ <i>Merluccius</i>	8
✓ <i>Phycis tenuis</i>	1
✓ <i>Glyptocephalus</i>	few
✓ <i>Macrurus Bairdii</i>	many
✓ " <i>carminatus</i>	few
✓ <i>Lycodes Verrillii</i>	1
✓ <i>Nemichthys</i>	1
✓ <i>Halicutæa senticosa</i> juv.	1
✓ <i>Hoplostethus</i> "	1
✓ <i>Raia</i> egg small	1



# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 1025

Date, Sept. 8, 1881.

Locality, S S W  $\frac{1}{4}$  W from Gay Head

Bearings, 95 m  
290 119'  
410 25'

Time of day, 1.05 P.M., ; of tide,

State of sky, Clear

Temperature of air, 70

" surface of water, 69

" at depth of fathoms,

" of bottom, 45-

Depth, in fathoms, ~~197~~ 216.

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,

## REMARKS.

Haul 1026

<del>Physic</del> <del>Chesteri</del>	<del>great</del>	<del>many</del>
<del>Merluccius</del>		<del>8</del>
<del>Physic tenuis</del>		<del>1</del>
<del>Glyptocephalus</del>		<del>few</del>
<del>Macrurus Bairdii</del>		<del>many</del>
<del>" carminatus</del>		<del>few</del>
<del>Lycodes verrillii</del>		<del>1</del>
<del>Nemichthys</del>		<del>1</del>
<del>Halientæa senticosa</del>	<del>juv.</del>	<del>1</del>
<del>Brama ?</del>	<del>juv.</del>	<del>1</del>
<del>Raja egg</del>	<del>small</del>	<del>1</del>
✓ <del>Physic</del> <del>Chesteri</del>		<del>many</del>
✓ <del>Macrurus</del> <del>Bairdii ?</del>	<del>juv.</del>	<del>4</del>
✓ <del>"</del> <del>carminatus</del>		<del>4</del>
✓ <del>Scopelus</del>		<del>6</del>
✓ <del>Hoplostethus</del> <del>juv.</del>		<del>2</del>
✓ <del>Merluccius</del>		<del>4</del>

# TEMPERATURE RECORD.

Instrument used,  
Current number of observation, 1026  
Date, Sept. 8, 1881.  
Locality, 55 N 1/4 N from Bay Head  
Bearings, 93 1/2 m  
39° 50' 30"  
71° 28'  
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  
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,

## REMARKS.

Haul 1027

✓ <i>Physiculus chuis</i>		2
✓ <i>Raja erinacea</i>	♂	1

# TEMPERATURE RECORD.

Instrument used.

Current number of observation, 1027

Date, Sept. 14, 1881

Locality,

Bearings, Lat.  $40^{\circ} 00'$  N.

Lon.  $69^{\circ} 19'$  W.

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

State of sky, Clear

Temperature of air, 61

“ 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,

Name and position of observer,...

REMARKS.

Haul 1028,

✓ <i>Synophobranchius fimbriatus</i>	45
✓ <i>Macrurus Bairdii</i> (all juv. but one)	19
✓ <i>Coryphaenoides</i> (28926)	1
✓ <i>Lycodes</i> <i>whitii</i>	1
✓ " <i>slab</i> <i>mont</i>	1
✓ <i>Physic Chesteri</i>	7
✓ <i>Glyptocephalus syngnathus</i> 2 juv. + 1 med.	
✓ <i>Scopelus</i> (in wings)	1

*Physic Chesteri* full. *caeca* - 13, '13  
*Coryphaenoides* stomach - amphipods  
*Synophobranchius* 2 full of eggs

# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 1028

Date, Sept. 14, 1881,

Locality,

Bearings, N. lat.  $39^{\circ} 57'$

W. lon.  $69^{\circ} 17'$

Time of day, 9.01 a.m.; of tide,

State of sky, Clear

Temperature of air, 66.5

“ surface of water, 66

“ at depth of 5 fathoms, 66

“ of bottom, 41

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 rank of commanding officer,

Name and position of observer,

## REMARKS.

Haul 1029

✓ Haloporphyrus viola	juv.	3
✓ Coryphaenoides		2
✓ Macrurus Bairdii	mostly juv.	52
✓ Phycis Chesteri		14 <del>13</del>
✓ Synaphobranchus		17
✓ Merluccius	large	1
✓ Scopelus		4+1
✓ Centroscyllium	juv.	1
✓ Cottunculus tomentosus	"	2
✓ Glyptocephalus	6 j. + 8 med.	
✓ Lycodes Verrillii		1
✓ " short head		1
✓ Sternoptychid		2



# TEMPERATURE RECORD.

Instrument used,

Current number of observation, 1029

Date, Sept. 14, 1881.

Locality,

Bearings, N. lat.  $39^{\circ} 57'$

N. lon.  $69^{\circ} 16'$

Time of day, 12.13 noon; of tide,

State of sky, Clear

Temperature of air, 72

" surface of water, 68

" at depth of 5 fathoms, 66

" of bottom, 40

Depth, in fathoms, 45-8

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.