7 H 9615-9665

IX - XII

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION RECORDS

Numbers 9615 to 9665

615

DEPARTMENT OF COMMERCE

BUREAU OF FISHERIES

RECORD OF DREDGINGS

F.H. 9615. Ipswich Bay

	Long	Lat.
Sta. 20 XX,	70.36.45 —	42.44-00
21 XXI	70.40.00 —	42.46-00
22 XXII	70.43.30 —	42.47.45
23 XXIII	70-40 00 —	42-49-30
24 XXIV	70-43-30 —	42-50-30
25 XXV	70-40-00 —	42-52-00
26 XXVI	70-43-00 —	42-53-30
27 XXVII	70-40-00 —	42 54-30
28 XXVIII	70-41-45 —	42-56-

Thermometers

#6 = B.S. 23474

#2 = B.S. 11499

29 XXIX	70-33-30	42-38
30 XXX	70-25-15	42-38
31 XXXI	70-20-30	42-30-30
32 XXXII	70-15-30	42-23-30
33 XXXIII	70-10-30	42-15-30
34 XXXIV	70-06-30	42-07-45

FH 9615 Ipswich Bay

615

Station No. 09.20 Date: Mar. 12 191 25

Hour: 10.00 A. M. to 10 35 A. M.

Position: Lat. 42, 44, 00 Long. 70, 36, 45

Locality: Off Halibut Pt.

Depth: 65m Bottom: Sample:

Wind: Direction, W Force, 1-2

Sea: Smooth Sky: B C 4

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	3.5	—	—	3.5		
32	#6	2.6	4.0	-.00	2.60		
64	#2	2.7	3.0	.00	2.70		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V.m	60m			
T. ft		1015	1035	
T. ft.		"	"	
TB ½ M.	60m	1015	1035	

11—5314

NOTES

Depth	#	Read	Const	h	t
0	113	24.5	+0.1	24.60	5.2
32	"	25.7	"	25.80	4.8
64	"	25.8	"	25.90	5.0

Depth	σ_0	CL	S	σ_{ts}	n	Δ
0	25.29	17.42	31.47	25.07	-	25.07
32	26.47	18.23	32.94	26.31	.15	26.46
64	26.60	18.32	33.11	26.42	.30	26.72

Heavy rain before 5 A.m.

TB½m one fish, many Calanus, Euthomisto several.

T nets and V net, barren

FH9616

615

Station No. 09,21 Date: Mar. 12 191

Hour: 11.05 A.M. to 11,40A .M.

Position: Lat. 42 46 00 Long. 70-40 —

Locality: N Plum Island

Depth: 42 m Bottom: Sample:

Wind: Direction, NW Force, 2-3

Sea: ground. Sky: BCZ

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	3.60	-	-	3.60		
21	#6	2.8	4.0	+.01	2.81		
41	#2	2.45	2.50	0.0	2.45		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V 1m	37m			
T1 1st #2		1120	1140	
T2 1st #2				
TB½m	37m	1120	1140	

11—5314

NOTES

Depth	#	Read.	Const	h	t
0	113	23.9	+0.1	24.00	5.3
21	"	25.8	"	25.90	4.7
41	"	25.9	"	26.00	4.6

Depth	σ_0	Cl	S	σ_{t_s}	n	Δ
0	24.67	17.00	30.71	24.44	-	24.44
21	26.58	18.31	33.08	26.40	.09	26.49
41	26.67	18.37	33.19	26.51	.18	26.69

V1m one egg (Hippoglossoides ?)
TB½m " " "

FH96.17

615

Station No. 09.22 Date: March 191

Hour: 12:10 P .M. to .M.

Position: Lat. 42-47-45 Long. 70-43-30

Locality: off Newburyport Lt. H

Depth: 31 m Bottom: Sample:

Wind: Direction, NW Force, 2-3

Sea: Gn Sky: BC 2

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	3.8	-	-	3.8		
15	#6	2.45	4.0	+.01	2.46		
30	#2	2.42	1.5	+.02	2.44		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V1 m	26 m	1240		
T1		1210	1230	
T2		"	"	
TB½ m	25 m	1210	1230	
TB trawl (Petersen)		1250	1,20	

11—5314

NOTES

Depth	#	Read.	Const.	h	t	
0	113	24.2	+0.1	24.30	5.6	
15	"	25.6	"	25.70	5.1	
30	"	25.7	"	25.80	4.6	

Depth	σ_0	Cl	S	σ_{ts}	n	Δ
0	26.04	17.94	32.41	25.77	–	25.77
15	26.40	18.19	32.86	26.25	.07	26.32
30	26.46	18.23	32.94	26.31	.14	26.45

T1 many egg Cod?
T2 " " "
TB½ " " "
T.B½ many Tine
TB, Trawl

7H9618

615

Station No. 09.25 Date: Mar 12 1925

Hour: 1.55 P.M. to 2 30 P.M.

Position: Lat. 42-52 00 Long. 70 40 00

Locality: Off Hampton Harbor

Depth: 50m Bottom: Sample:

Wind: Direction, NNW Force, 2

Sea: 92 Sky: B0

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	3.6	-	-	3.6		
25	#6	2.40	4.50	00	2.40		
49	#2	2.45	3.0	-.01	2.44		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V, m	45m	1.55		
T,	Surface	2.10	2.30	
T,	"	"	"	
TB½M	45m	"	"	

11—5314

NOTES

Depth	#	Read.	Const.	h	t	
0	113	24.5	+0.1	24.60	5.4	
25	"	25.6	"	25.70	4.2	
49	"	25.8	"	25.90	4.4	
Depth	σ_0	Cl	S	σ_{t_s}	n	Δ
0	25.29	17.42	31.47	25.04	-	25.04
25	26.30	18.12	32.74	26.16	.11	26.27
49	26.53	18.27	33.02	26.38	.23	26.61

T/

T/II

V

FH9619

615

Station No 09.26 Date: Mar. 12 1925

Hour: 3.00 P.M. to 3.45 P.M.

Position: Lat. 42-53-30 Long. 70 43 00

Locality: Hampton Shoal Ledge

Depth: 34m Bottom: Sample:

Wind: Direction, NW Force, 2

Sea: Sm. Sky: BU

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	#1398	3.7	–	–	3.70		
17	#6	2.35	4.5	00	2.35		
33 •	#2	2.42	3.0	-.02	2.40		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
Vim	29m			
T1 1st #2		325	345	
T2 1st #2		325	345	
TB½	30m	325	345	
Peterson trawl	34m	3.25	3.45	

11—5314

NOTES

Depth	#	Read.	Const.	h	t
0	113	24.1	+0.1	24.20	5.8
17	"	25.6	"	25.70	4.8
33	"	25.7	"	25.80	4.7

Depth	σ_0	Cl	S	σ_{ts}	n	Δ
0	24.93	17.17	31.03	24.68	-	24.68
17	26.36	18.16	32.81	26.22	.08	26.30
33	26.47	18.23	32.94	26.32	.15	26.47

Peterson trawl badly torn, put out of use.

F.H. 9620

615

Station No. 09.28 Date: Mar. 12 1905

Hour: 4.25 P. M. to 5 P. M.

Position: Lat. 42-56.00 Long. 70-41.45

Locality: Little Boars Head

Depth: 44m Bottom: Sample:

Wind: Direction, NW Force, 1

Sea: Sm Sky: 13 0

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	3.1	-	-	3.1		
22	#6	2.60	4.0	-00	2.60		
43	#2	2.61	3 0	-.01	2.60		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V, m	38 m	4.25		
T1 1 of #2		4.40	5 Pm	
T2 1 of #2		4.40	5 00 Pm	
TB 1/2 m	40 m	440	5 Pm	

11—5314

NOTES

Depth	#	Read.	Const.	h	t	
0	113	25.0	+0.1	25.10	5.2	
22	"	25.5	"	25.60	4.6	
43	"	25.9	"	26.00	5.0	
Depth	σ_0	CL	S	σ_{ts}	n	Δ
0	25.79	17.77	32.10	25.59	–	25.59
22	26.27	18.10	32.70	26.10	.10	26.20
43	26.69	18.38	33.21	26.52	.20	26.72

7H 9621

615

Station No. 10.28 Date: March 25 1925

Hour: 6.50 A. M. to 7.20 A. M.

Position: Lat. 42-56-00 Long. 70-41-45

Locality: Little Boar Head

Depth: 38 m Bottom: Sample:

Wind: Direction, S Force, 3

Sea: Sh. gr Sky: BCZ9

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	#1398	3.60	-	-	3.60		
18	#6	2.80	30	+.03	2.83		
37	#2	2.60	30	-.01	2.59		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
Vim	32m	6.50		
T1 1H #2		7.00	7.20	
T2 1H #2		"	"	
TB		7.00		

NOTES

Depth	Read	#	Cont	h	t	
0	23.40	8012			5.7	
18m	24.60	"			5.1	
37m	25.10	"			5.3	

Depth	σ_0	cl	S	$\sigma_{t,s}$	n	Δ
0						
18						
37						

Few eggs in T nets

615 7.H.9623

Station No. 10.24 Date: March 25 1925

Hour: 9.05 A.M. to 9.40 A.M.

Position: Lat. 42-50-30 Long. 70-43-30

Locality: Salisbury Beach

Depth: 34m Bottom: Sample:

Wind: Direction, S Force, 2

Sea: Sm Sky: OCZ10

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	3.60	-	-	3.60		
16	#6	2.70	3.0	+.03	2.73		
33	#2	2.58	3.0	-.01	2.57		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
V.m	29m	9.05		
T.ft		9.20	9.40	
T.ft		"	"	
TB½m	10m	"	"	
Trawl	28m	"	"	

11—5314

NOTES

Depth	Read.	#	Const.	W	t	
0	20.00				5.5	
16	21.70				5.0	
33	21.70				4.6	

Depth	σ_0	α	S	$\sigma_{t,s}$	n	Δ
0						
16						
33						

615 FH9624

Station No. 10.22 Date: March 25 1925

Hour: 10.20 A.M. to . M.

Position: Lat. 42-47-45 Long. 70-43-30

Locality: Newburyport. Mt H

Depth: 40 m. Bottom: Sample:

Wind: Direction, S Force, 1-2

Sea: Sm. Sky: OCZ10

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	#1398	3.60	-	-	3.60		
20	#6	2.70	3.5	+.02	2.72		
39	#2	2.48	2.5	0	2.48		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
V1	35 m	10.20		
T1 1ft #2	Surface	10.30	10.50	
T2 1ft #2	"	"	"	
T3 ½ m	"	"	"	
T3 ½ m Trawl.	34 m	"	11.00	

11—5314

NOTES

Depth	Read	#	Cont.	℞	t	
0						
20						
39						
Depth	σ_0	d	s	σ_{th}	n	Δ
0						
20						
39						

Many large.

7H 9625

615

Station No. 10.21 Date: March 25 1925

Hour: 11.20 A. M. to . M.

Position: Lat. 42-46-00 Long. 70-40-00

Locality: Plum Island

Depth: 65m Bottom: Sample:

Wind: Direction, WSW Force, 2

Sea: Sm Sky: OCZ10

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	3.80	-	-	3.80		
32	#6	2.70	4.0	+.01	2.71		
64	#2	2.82	3.0	0.0	2.82		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V.m	60	11.25		
T.ft	Surface	11.40		
T.ft	"	"		
TB½M		"		
Beam Trawl TB½M		"		

11—5314

NOTES

Depth	Read	#	Const.	n	t	
Depth	σ_0	d	S	σ_{t0}	n	Δ

The cod 156 m in Beam trawl.
Several Sebastis marinus.
one Octopus.

FH 9626

615

Station No. 10.23 Date: Mar. 25 192

Hour: 12.25 P. M. to . M.

Position: Lat. 42-49-30 Long. 70-40-00

Locality: Salisbury Beach

Depth: 80 m Bottom: Sample:

Wind: Direction, W Force, 1-2

Sea: Sm Sky: OCR 10

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	3.70	–	–	3.70		
40	#6	did not register		–	–		
79	#2	2.89	3.0	0	2.89		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V, 1m	75m	12.30		
T,		12.45		
T,		"		
TB½M		"	1.05	
TB½M in Travel.		12.50	1.20	

11—5314

NOTES

Depth	Read	#	Const.	h	t	
Depth	σ_0	d	S	σ_{ts}	n	Δ

GHS FH 9627

Station No. 10.25 Date: March 25 1925

Hour: 1.40 P.M. to .M.

Position: Lat. 42-52-00 Long. 70-40-00

Locality: off Hampton Shoal Ledge

Depth: 76m Bottom: Sample:

Wind: Direction, W Force, 1

Sea: Sm Sky: OC R 10

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	#1398	3.80	-	-	3.80		
38	#6	2.60	3.0	+.03	2.63		
75	#2	2.90	3.0	0	2.90		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
V1 m	70 m	1.45		
T1	Surface	2.00	2.20	
T1	"	"	"	
TB½M	12 fms	"	"	
TB½M in Trawl	74 m	"	2.20	

11—5314

NOTES

Depth	Read	#	Const	Tw	t	
Depth	σ0	cl	S	σts	n	Δ

615 74 9628

Station No. 10.27 Date: Mar. 25, 1905

Hour: 2.50 P.M. to .M.

Position: Lat. 42-54-30 Long. 70-40-00

Locality: Great Boars Head

Depth: 77 m Bottom: Sample:

Wind: Direction, W x S Force, 1-2

Sea: Sm Sky: OCZ

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	3.35	-	-	3.35		
38	#6	2.40	3.0	+.03	2.63		
76	#2	2.85	3.0	0	2.85		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
V, m	72m	250		
T,	Surface	3.05	3.25	
T,	"	"	"	
TB ½ M	10 fms.	"	"	
TB ½ M in tow.	70m	3.05	3.35	

11—5314

NOTES

Depth	Read	#	Const.	N	t	
Depth	00	CL	S	Obs	n	△

7H9629

615

Station No. 11.28 Date: April 7 1925

Hour: 12.50 A.M. to 1.30 A.M.

Position: Lat. 42-56-00 Long. 70-41-45

Locality:

Depth: 52 m Bottom: Sample:

Wind: Direction, SW Force, 1-2

Sea: Sm Sky: BC1

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	#1398	4.2	—	—	4.2		
26	#6	2.60	3.5	-.02	2.62		
51	#2	2.62	3.0	-.01	2.61		

Water samples - Top and bottom

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V1m	47m	12.50		
T11 Meter	Surface	1.10	1.30	
T4H	"	1.10	1.30	
TB1m	9 fms	1.10	1.30	
~~TB2M on hand~~				

11—5314

NOTES

Depth	Hd	Read	Cont.	n	t
0	207	21.25	+0.7	21.95	11.6
51	"	24.30	+0.9	25.20	11.3
26					

Depth	σ_0	σ_t	S	σ_s	n	Δ
0	23.31	16.06	29.02	23.04	0	23.04
51	26.64	18.35	33.15	26.47	0.23	26.70

V1 few eggs

TB

T1m few eggs [illegible]

F.H. 9630

615

Station No. 11.25 Date: April 7 1912

Hour: 2.00 A.M. to 2.20 A.M.

Position: Lat. 42-52-00 Long. 70-40-00

Locality:

Depth: 67m Bottom: Sample:

Wind: Direction, SW Force, 1-2

Sea: Sm Sky: BC 1

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	#1398	4.75	—	—	4.75		
33	#6	2.85	3.5	+.02	2.87		
65	#2	2.78	3.0	0	2.78		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
V. M	62 m	2.00		
T. Meter	Surface	2.20	2.50	
TB meter	8 fms.	2.20	"	
~~R. Trawl.~~				
TB½M on trawl.		2.20	Carried away.	

11—5314

NOTES

Depth	Read	#	Const.	W.	t	
Depth	σ_0	d	S	σ_{25}	n	Δ

7H9631

615

Station No. 11 23 Date: April 7 1925

Hour: 3.20 A. M. to 3.55 A. M.

Position: Lat. 42-49-30 Long. 70-40-00

Locality:

Depth: 76m Bottom: Sample:

Wind: Direction, SW Force, 1-2

Sea: Sm Sky: BC 2

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	#1398	4.6	—	—	4.6		
37	#6	2.41	3.0	+.02	2.43		
75	#2	2.49	3.0	-.01	2.48		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
V, m	70 m	3.20		
T-1 meter	Surface	3.35	3.55	
TB-1 meter	13 fms.	3.35	3.55	
/				

11—5314

NOTES

TB 1 m [illegible]

T 1 m " "

7H 9632

615

Station No. 11, 21 Date: April 7 1935

Hour: . M. to . M.

Position: Lat. 42-46-00 Long. 70-40-00

Locality:

Depth: 40m Bottom: Sample:

Wind: Direction, SW Force, 2

Sea: Sm Sky: BCZ

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	#1798	4.90	-	-	4.90		
20	#6	2.70	3.5	+.02	2.72		
39	#2	2.62	3.0	-.01	2.61		
Water sample - surface							

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V1m	35m	4.30		
TB1 Meter	8fms.	4.45	5.05	
T1 Meter	Surface	4.45	5.05	

11—5314

NOTES

T1m many Herring

TB1m 1 Wolffish and Herring

Depth	#	Read.	Const.	h	t	
0	207	21.0	+0.7	21.70	11.7	
39	207	23.30	+0.85	24.15	11.3	
Depth	σ_0	cl	S	σ_{ts}	n	Δ
0	23.09	15.91	28.75	22.76	0	22.76
39	25.55	17.60	31.80	25.38	.18	25.56

7# 9633

C15

Station No. 11, 29 Date: April 7 1925

Hour: 6.10 A. M. to . M.

Position: Lat. 42-38-00 Long. 70-33-30

Locality: Hatches Hd Cape Ann

Depth: 40 m Bottom: Sample:

Wind: Direction, S.W Force, 1-2

Sea: Sm Sky: BC3

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	#1398	4.55	-	-	4.55		
20	#6	2.82	4.0	+.01	2.83		
39	#2	2.81	3.0	0	2.81		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
V 1m	35m	6.10		
T-1 Meter	Surface	6.25		
TB-1 Meter	9fms	6.25		
T-1 foot	Surface			

11—5314

NOTES

TB 1m & Tnets Boa very abundant.

9634

615

Station No. 11, 30 Date: April 7 1935

Hour: 7.30 A. M. to 7.50 A. M.

Position: Lat. 42-38-00 Long. 70-25-15

Locality: East of Thatcher Isld.

Depth: 85M Bottom: Sample:

Wind: Direction, SW Force, 2

Sea: Sm Sky: BC4

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	#1398	4.30	-	-	4.30		
42	#6	3.10	3.5	+.03	3.13		
84	#2	3.10	3.0	+.01	3.11		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
V.M	~~60M~~	7.30		
T-1ft	Surface	7.50		
T-1 Meter	"	"		
TB-1 Meter	14fms	"		
TB½M in Trawl	14fms	"		

11—5314

NOTES

Second Time

9635

615

Station No. 11, 31 Date: April 7 1935

Hour: 9.35 A. M. to 10 30 A. M.

Position: Lat. 42-30-30 Long. 70-20-30

Locality:

Depth: 114 m Bottom: Sample:

Wind: Direction, SW Force, 2

Sea: gr. Sky: BC 4

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	4.05	-	-	4.05		
57	#6	2.83	3.5	+.03	2.86		
112	#2	2.90	3.0	0	2.90		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V.m		9.35		
T-1 Meter	Surface	10.10	10.30	
T-1 Meter ~~[illegible]~~	30/ms	10.10	10.30	

11—5314

NOTES

TB 1m down 30 faths & Turn up.

Depth	#	Read.	Const	n	t	
0	207	23.45	+0.85	24.30	11.5	
112	"	23.85	+0.88	24.73	11.5	
Depth	σ_0	cl	s	σ_{ts}	n	Δ
0	25.73	17.72	32.02	25.45	0	25.45
112	26.19	18.04	32.59	26.00	.52	26.52

H 9636

615

Station No. 11.32 Date: April 7 23 191

Hour: 11.30 .M. to 12 05 P.M.

Position: Lat. 42-23-30 Long. 70-15-30

Locality:

Depth: 60 m Bottom: Sample:

Wind: Direction, SW Force, 2-3

Sea: Gr Sky: BCY

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	#1398	4.40	-	-	4.40		
30	#6	3.30	3.5	+.03	3.33		
60	#2	2.72	3.0	0	2.72		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
V1m	55 M	11.30		
T1 1st	Surface	11.45	12.05	
T2 1st	"	"	"	
T1m	"	"	"	
T-1m on trawl.				

11—5314

NOTES

Trawl torn to pieces

615 9637

Station No. 11, 33 Date: 9m 7 191

Hour: 12.55A .M. to 1 15P .M.

Position: Lat. 42-15-30 Long. 70-10-30

Locality:

Depth: 80 m Bottom: Sample:

Wind: Direction, SW Force, 2-3

Sea: gr Sky: BC 3

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	4.60	–	–	4.60		
40	#6	3.65	3.0	+.04	3.69		
80	#2	2.92	3.5	-.01	2.91		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V, m	75 m	12.20		
T, A	Surface	1255	1.15	
T, A	"	"	"	
T, Meter	"	"	"	

NOTES

Depth	#	Read	C +	n	t
0	207	23.35	+0.85	24.20	11.5
80	207	24.25	+0.90	25.15	11.8

Depth	σ_0	Cl	S	σ_{ts}	n	Δ
0	25.64	17.66	31.91	25.31	0	25.31
80	24.66	18.34	33.18	24.46	.37	24.83

~~7~~ #9638

615

Station No. 11.34 Date: April 7, 1925

Hour: 3.30 P.M. to 4.20 P.M.

Position: Lat. 42-07-45 Long. 70-06-30

Locality:

Depth: 45 m Bottom: Sample:

Wind: Direction, SW Force, 3

Sea: 92 Sky: BCS

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	#1398	4.40	—	—	4.40		
22	#2	2.92	4.0	+.02	2.94		
44	#2	3.13	4.0	-.01	3.12		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V1m	40m	3.30		
T1				
T2				
TB1m				

11—5314

NOTES

V1m few Eggs Cod or Haddock

T1

TB1m many diatoms

Depth	#	Read.	Corr't	h	t	
0	207	23.25	+0.85	24.10	12.6	
44	207	23.75	+0.88	24.63	12.6	
Depth	σ_0	Cl	S	σ_{ES}	$\sim$	Δ
0	25.72	17.72	32.01	25.39	0	25.39
44	26.26	18.09	32.68	26.05	.20	26.25

7#8639

615

Station No. 11.03 Date: April 7 1925

Hour: 6.00P . M. to . M.

Position: Lat. 42-09-30 Long. 70-19-15

Locality: On Stellwagen Bank

Depth: 60m Bottom: Sample:

Wind: Direction, SW Force, 3

Sea: gr Sky:

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	4.10	–	–	4.10		
30	#2	4.05	4.0	+.03	4.08		
60	#2	3.40	3.50	+.0	3.40		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
V1m	55m	6.00		
T1		6.30	6.50	
T2		"	"	
TB1m				

11—5314

NOTES

V1m, nothing in net.

F. H. 9640

615

Station No. 11.04 Date: Apr. 7 1925

Hour: 7.30 P. M. to . M.

Position: Lat. 42-05-30 Long. 70-17-00

Locality: off Race Point Cape Cod

Depth: 60m Bottom: Sample:

Wind: Direction, SW Force, 3

Sea: 92 Sky: 13C4

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	#1398	4.40	—	—	4.40		
30	#6	4.18	4.5	+.02	4.20		
60	#2	3.59	4.0	-.01	3.58		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
V, m		7.30		
T, ft	Surface	7.50	8.10	
T, ft	"	"	"	
TB / Meter	9fms	"	"	

11—5314

NOTES

F.H. 9641

615

Station No. 11.06 Date: April 8 1925

Hour: 5.30 A. M. to . M.

Position: Lat. 41-55-20 Long. 70-09-15

Locality: off Wellfleet Cape Cod Bay

Depth: 27m Bottom: Sample:

Wind: Direction, NW Force, 2

Sea: Sh 92 Sky: BC3

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	4.90	-	-	4.90		
13	#6	4.85	5.5	+.01	4.86		
26	#2	5.13	6.0	-.01	5.14		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
V, 2m	22m	5.55		
T, - 1ft	Surface	6.20	6.40	
T2 - 2ft	"	"	"	
TB - 1 Meter	"	"	"	

11—5314

NOTES

V1 few eggs.
T1 ft many young fish

F.H. 9642

615

Station No. 11.07 Date: April 8 1925

Hour: . M. to . M.

Position: Lat. 41-49-30 Long. 70-11-30

Locality: Billingsgate Shoal

Depth: 13m Bottom: Sample:

Wind: Direction, NWxN Force, 2

Sea: Sh. 9r. Sky: BCY

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1348	5.4	-	-	5.40		
6	#6	5.22	60	+.02	5.24		
12	#2	5.27	50	+.01	5.26		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
V, 2m				

11—5314

NOTES

V/m few eggs
many fish

F.H. 9643

615

Station No. 11.06A Date: April 8 1925

Hour: 9.25 A.M. to 10.50 A.M.

Position: Lat. 41-56-00 Long. 70-18-30

Locality: Fishing Ground, West. Wood End

Depth: 45m Bottom: Sample:

Wind: Direction, NW×N Force, 2

Sea: Sh. Gr Sky: BCZ

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
1	1398	4.75	—	—	4.75		
22	#6	4.38	5.0	+.02	4.40		
45	#2	2.87	3.5	-.01	2.86		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V, m	40m	9.25		
T, ft		9.40	10.50	
T, ft		"	"	
TB 1-Meter		"	"	

11—5314

NOTES

V1 few Tima
" Eggs
1 fish
TB1m several Tima F.
T1, few Flounder egg (Hippi P)

Depth	#	Read	Const	h	t	
0	207	23.10	+0.85	23.95	12.9	
45	"	23.45	+0.85	24.30	12.8	
Depth	σ_0	CL	S	σ_{ts}	n	Δ
0	25.60	17.63	31.86	25.34	0	25.34
45	25.95	17.88	32.30	25.76	.21	25.97

F.H. 9644

615

Station No. 11.10 Date: Apr 8 191

Hour: 11.05 A. M. to . M.

Position: Lat. 41-58-00 Long. 70-30-00

Locality: Wood End Cape Cod

Depth: 40m Bottom: Sample:

Wind: Direction, N Force, 1-2

Sea: gr Sky: BCY

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	4.10	–	–	4.10		
20	#6	4.57	5.0	+.02	4.59		
40	#2	2.48	3.5	-.02	2.46		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V. m	40	11.05		
T. ft	Surface	11.25	11.45	
T. ft	"	"	"	
TB 1-Mtr		"	"	

Depth	#	Rend	Corr	n	t	
0	207	22.25	+0.80	23.45	12.7	
40	"	23.40	+0.86	24.26	12.9	
Depth	σ_0	Cl	S	$\sigma_{t,s}$	n	Δ
0	25.05	17.24	31.18	24.77	0	24.77
40	25.92	17.85	32.26	25.76	.18	25.94

615

F.H. 9645
11.13A

Station No. Date: apr 8 191

Hour: 12.25A. M. to 1 00 . M.

Position: Lat. 42-02-30 Long. 70-34-15

Locality: off High Pine Ledge

Depth: 25 M Bottom: Sample:

Wind: Direction, N Force, 2-3

Sea: Sm. Sky: BC 2

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	5.40	—	—	5.40		
12	#6	4.62	5.5	+.01	4.63		
24	#2	3.81	4.1	0	3.81		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
V, m	20	1225		
T, ft		1240	1.00	
T, ft		"	"	
TB - 1 Meter		"	"	

11—5314

NOTES

V1 m feet
T1 ft
T2 ft
TB1 m

F.H. 9646

615

Station No. 11.14 Date: April 8 191

Hour: 130 P. M. to 200 . M.

Position: Lat. 42-05-00 Long. 70-35-00

Locality: Off Farnham Rock

Depth: 20 Bottom: Sample:

Wind: Direction, N Force, 2-3

Sea: Sm Sky: BC2

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	5.10	—	—	5.10		
10	#6	5.68	6.0	4			
20	#2	4.65	5.0	0	4.65		
10	#2	5.22	5.5	repeat			
				0	5.22		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
V, 2m	15			
T, 1		1.40	2.00	
T, 1		"	"	
TB-1 Mod		"	"	

11—5314

NOTES

V1 few eggs

T 1

T 2

TB 1 2m

615 96477H

Station No. 11.16 Date: April 8 1915

Hour: 3.25 P.M. to 4.00 P.M.

Position: Lat. 42-14-20 Long. 70-41-45

Locality: Cedar Point

Depth: 30m Bottom: Sample:

Wind: Direction, N. Force, 3

Sea: 92 Sky: BC 3

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	5.05	-	-	5.05		
15	#6	4.91	5.5	+.02	4.93		
30	#2	3.52	4.0	0	3.52		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
V/M	25	3.25		
T.M		3.40	4.00	
T.M		"	"	
TB-1 Meter		"	"	

11—5314

NOTES

7H9648

615 12.38

Station No. Date: April 21 1925

Hour: 2.25 . M. to 3.23 P. M.

Position: Lat. 42-24-15 Long. 70-52-15

Locality: off Nahant.

Depth: 28 m Bottom: Sample:

Wind: Direction, S Force, 2

Sea: gr Sky: 13 C 4

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	6.0	—	—	6.0		
13	H 6	4.5	5.0	+.02	4.57		
26	H 2	4.75	5.0	0	4.75		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V1m	23m	2.30		
T1 B1m		240		
T1 ft		3 00		
T2 1ft		"		

Depth	#	Read.	Const	n	t
0	208	23.00	+1.04	24.04	10.4
13	"	22.75	+1.05	23.80	11.5
26	"	23.25	+1.04	24.29	11.7

Depth	σ_0	CL	S	σ_{ts}	n	Δ
0	25.29	17.42	31.47	24.79	0	24.79
13	25.23	17.38	31.40	24.90	.06	24.96
26	25.78	17.76	32.09	25.42	.12	25.54

V1 many eggs ((Hippoglossoides)

T1 1 ft #2 many eggs
T2 1 " #2 " "
T B1m many eggs several young fish, 2 Tima formosa

749649

615 12.

Station No. 1237 Date: April 21 1925

Hour: 4.05 P. M. to 4.50 P. M.

Position: Lat. 42-28-00 Long. 70-48-00

Locality: Marblehead. (Tinker Isl)

Depth: 40 m. Bottom: Sample:

Wind: Direction, SE Force, 2-3

Sea: gr. Sky: 13 C 4

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	4.20	—	—	4.20		
19	#6	4.80	5.0	+.03	4.83		
38	#7	4.60	5.0	0	4.60		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V 1m	352	4.05		
T1 ft #2		4.30	4.50	
T2 ft #2		"	"	
TB 1m		"	"	
Petersen Trawl				

11—5314

NOTES

Depth	H	Read	Corr	h	t	
0	208	22.85	+1.05	23.90	11.8	
19	"	23.00	+1.04	24.04	11.7	
38	"	23.25	+1.04	24.29	11.3	

Depth	σ_0	CL	S	σ_{25}	n	Δ
0	25.38	17.48	31.59	25.08	0	25.08
19	25.51	17.57	31.75	25.15	.09	25.24
38	25.71	17.71	32.00	25.37	.18	25.55

V1 eggs

TB 1m many eggs

615 ~~7H~~ 9650

Station No. 12.36 Date: April 21 1925

Hour: 5.20 P. M. to 6.10 P. M.

Position: Lat. 42-30-15 Long. 70-43-15

Locality: New Comt Ledge

Depth: 45 m Bottom: Sample:

Wind: Direction, NW Force, 2-3

Sea: gr. Sky: BC7

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	5.20	-	-	5.20		
22	#6	4.80	5.0	+.03	4.83		
44	#2	3.95	4.0	0	3.95		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V 1 m	40 m	5.25		
T 1 1st		5.45		
T 2 1st		"		
T B 1 m		5.45	6.05	

11—5314

NOTES

Depth	#	Read	Const	h	t
0	208	22.70	+1.05	23.75	12.6
22	"	22.80	+1.05	23.85	12.7
44	"	23.00	+1.04	24.04	11.4

Depth	σ_0	cl	S	σ_{ts}	n	Δ
0	25.33	17.45	31.53	25.06	0	25.06
22	25.48	17.55	31.72	25.12	.10	25.22
44	25.43	17.52	31.65	25.15	.20	25.35

V1

many Hyperglossinae eggs

615 7H9651

Station No. 12.35 Date: April 22 1915

Hour: 5.10 A. M. to 5.45 A. M.

Position: Lat. 42-34-30 Long. 70-38-00

Locality: Eastern Point

Depth: 45 M Bottom: Sample:

Wind: Direction, NW Force, 1

Sea: 0 Sky: BC 1

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	4.40	—	—	4.40		
22	#4	4.21	5.0	+.02	4.23		
44	#2	3.67	4.0	-.01	3.66		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V 1 m	40 m	5.10		
T 1 lft		5.25	5.45	
T 2 lft		"	"	
TB 1 m		"	"	
Beam Travel		"	"	

11—5314

NOTES

Depth	Rt	Read	Cor +	h	t
0	208	23.30	+1.03	24.33	6.4
22	"	23.55	+1.03	24.58	7.0
44	"	23.80	+1.03	24.83	6.6

Depth	σ_0	CL	S	σ_{ts}	n	Δ
0	25.12	17.30	31.26	24.81	0	24.81
22	25.44		31.66	25.14	.10	25.24
44	25.60		31.86	25.34	.20	25.54

7H 9652
615

Station No. 12,29 Date: April 22 1925

Hour: 6.20A. M. to 7.02A. M.

Position: Lat. 42-38-00 Long. 70-33-30

Locality:

Depth: 45 m Bottom: Sample:

Wind: Direction, NW Force, 1-2

Sea: 2 Sky: BCY

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	4.2	–	–	4.2		
22	#6	4.20	5.0	+.03	4.23		
44	#2	3.55	3.5	+.01	3.56		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V1 —	40 m	6.25		
T1 1ST #2		6.40	7.00	
T2 1ST #2		"	"	
TB1 —	0-8	"	"	
Beam Trawl				

41—5314

NOTES

Depth	#	Read	Cor +	h	t	
0	208	23.20	+1.04	24.24	6.1	
22	"	23.10	+1.04	24.14	6.6	
44	"	23.90	+1.02	24.92	6.1	

Depth	σ_0		S	σ_{t_0}	n	Δ
0	25.01		31.13	24.72	0	24.72
22	24.94		31.04	24.65	.10	24.75
44	25.71		32.00	25.47	.20	25.67

7H9653

615

Station No. 12.30 Date: April 22 1925

Hour: 7.45 A. M. to 8.15 A. M.

Position: Lat. 42-38-00 Long. 70-25-15

Locality:

Depth: 80 m Bottom: Sample:

Wind: Direction, NW Force, 1-2

Sea: gr Sky: BCZ 3

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	4.0	–	–	4.0		
40	#6	3.41	4.5	+.01	3.42		
80	#2	2.92	3.5	0	2.92		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V1 m	75m	7.50		
T1 1 ft		755	8.15	
T2 1 ft		"	"	
TB1 m	0-8	"	"	

11—5314

NOTES

Depth	H	Read	Cnst	h	t
0	208	23.75	+1.03	24.78	6.3
40	"	24.20	+1.01	25.21	6.2
80	"	24.65	+1.01	25.66	5.5

Depth	σ_0	S	σ_{ts}	n	Δ
0	25.54	31.79	25.26	0	25.26
40	26.01	32.38	25.77	.18	25.95
80	26.37	32.82	26.17	.37	26.54

TB1m many very small eggs. One clima

615 7H 9654

Station No. 12, 31 Date: April 22 1915

Hour: 9.15 A. M. to 9.40 A. M.

Position: Lat. 42-30-30 Long. 70-20-30

Locality:

Depth: 85 m Bottom: Sample:

Wind: Direction, NW Force, 2

Sea: Gr Sky: BCZ4

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	4.4		-	4.4		
42	#6	2.62	4.0	+.01	2.63		
84	#2	2.70	3.0	0	2.70		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V1 —	80m	9.15		
T1 ~~1t~~ #2		9.20	9.40	
T2 1t #2		"	"	
TB1 —		"	"	

11—5314

NOTES

Depth	#	Read	Corr	h	t
0	208	23.35	+1.03	24.38	6.5
42	"	24.35	+1.01	25.36	6.0
84	"	24.40	+1.01	25.61	5.9

Depth	σ_0	S	σ_{ts}	n	Δ
0	25.15	31.30	24.83	0	24.83
42	26.09	32.47	25.92	.19	26.11
84	26.36	32.81	26.18	.38	26.56

615 7H 9655

Station No. 12.32 Date: April 22 191

Hour: 10.35 A. M. to 11.15 A. M.

Position: Lat. 42-23-30 Long. 70-15-30

Locality:

Depth: 50 m Bottom: Sample:

Wind: Direction, NW Force, 1-2

Sea: gr Sky: BCZ3

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1998	4.3	-	-	4.3		
25	#6	4.10	5.5	+.01	4.11		
50	#2	3.10	4.0	-.01	3.09		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V1 m	457m	10.40		
T1 1 ft		10.55	11.15	
T2 1 ft		"	"	
TB 1 m		"	"	
Beam trawl		"	"	

14—5314

NOTES

Depth	#	Read	Const	n	t
0	208	23.35	+1.03	24.38	7.6
25	"	23.56	+1.03	24.58	7.0
50	"	24.24	+1.02	25.22	6.5

Depth	σ_0	C2	S	σ_{t_0}	n	Δ
0	25.29		31.47	24.98	0	24.98
25	25.44		31.66	25.16	.11	25.27
50	26.04		32.41	25.84	.23	26.07

615 749656

Station No. 12.33 Date: April 22 191

Hour: 12.15 P. M. to 12.55 P. M.

Position: Lat. 42-15-30 Long. 70-10-30

Locality:

Depth: 65 m Bottom: Sample:

Wind: Direction, NW Force, 1-2

Sea: gr Sky: BC 2

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	4.4	–	–	4.4		
32	#6	4.18	6.0	-.00	4.18		
64	#2	3.07	4.0	-.01	3.06		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V1 —	60	12.15		
T1 1 ft x 2		12.35	12.55	
T2 1 ft x 2		"	"	
T3 1 m		"	"	
Beam trawl		"	"	

11—5314

NOTES

Depth	#	Read	Cust	h	t
0	208	23.65	+1.03	24.68	8.5
32	"	24.25	+1.02	25.27	7.4
64	"	24.40	+1.01	25.41	6.7

Depth	σ_0	S	σ_{ts}	n	Δ
0	25.71	32.00	25.39	0	25.39
32	26.17	32.57	25.87	.15	26.02
64	26.23	32.65	26.02	.29	26.31

Beam trawl 1 wolffish 12 inch long; 1 Sea Poacher 4 inches 1 Sculpin 10 inches. 1 Bunch large barnacles, much sponge.

A school of fish resembling large herring or menhaden seen, many Mysis in water, also school of young herring (?).

615 74 9657

Station No. 12.34 Date: April 22 191

Hour: 1.50 P.M. to 2.20 P.M.

Position: Lat. 42-07-45 Long. 70-06-30

Locality:

Depth: 50 m Bottom: Sample:

Wind: Direction, NE Force, 1

Sea: gr. Sky: BCu

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	4.5	-	-	4.5		
25 m	#6	4.02	6.0	-.00	4.02		
50 m	#2	3.48	4.5	0	3.48		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V 1 mm	45 m	1.55		
T1 1st # 2		2.00	2.20	
T2 1st # 2		"	"	
TB 1 mm		"	"	
Beam Trawl		"	"	

11—5314

NOTES

Depth	#	Read	Cont	n	t
0	208	23.35	+1.03	24.38	10.0
25	"	23.75	+1.02	24.77	8.0
50	"	24.50	+1.01	25.51	7.4

Depth	σ_0	S	σ_{t0}	n	Δ
0	25.60	31.86	25.24	0	25.24
25	25.72	32.01	25.44	.11	25.55
50	26.44	32.91	26.22	.23	26.45

7H965

615

Station No. 12,03 Date: April 22 1925

Hour: 3.55P .M. to 4.30P .M.

Position: Lat. 42-09-30 Long. 70-19-15

Locality: Stellwagen Bank

Depth: 34m Bottom: Sample:

Wind: Direction, S Force, 1

Sea: gr Sky: BC3

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	5.5	–	–	5.5		
17	#6	5.48	6.5	+.01	5.49		
33	#2	3.80	4.5	-.01	3.79		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V.M	29m	3.55		
T.M		4.10	4.30	
T.M		"	"	
TBCM		"	"	

11—5314

NOTES

Depth	#	Read	Corr	w	t
0	208	23.45	+1.03	24.48	8.4
17	"	23.40	+1.03	24.43	8.1
33	"	24.20	+1.02	25.22	7.2

Depth	σ_0	S	$\sigma_{t,s}$	n	Δ
0	25.47	31.71	25.03	0	25.03
17	25.40	31.62	24.97	.08	25.05
33	26.11	32.50	25.83	.15	25.98

7H9659

615

Station No. 12.04 Date: April 22 1925

Hour: 5.00 P.M. to 5.30 P.M.

Position: Lat. 42-05-30 Long. 70-17-00

Locality: Off Race Point Cape Cod

Depth: 55 m Bottom: Sample:

Wind: Direction, S Force, 3

Sea: gr Sky: BC 4

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	6.0	–	–	6.0		
27	#6	5.20	7.0	.00	5.20		
55	#2	4.19	5.0	-.01	4.18		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V1 m	50 m	5.10		
T1 1st #2		5.10	5.30	
T2 1st #2		"	"	
TB1 mc		"	"	

11—5314

NOTES

Depth	#	Read	Const	h	t
0	208	23.40	+1.03	24.43	9.7
27	"	23.40	+1.03	24.43	9.0
55	"	23.90	+1.02	24.92	8.6

Depth	σ_0	S	σ_{ts}	n	Δ
0	25.61	31.87	25.11	0	25.11
27	25.52	31.76	25.13	.13	25.26
55	25.97	32.32	25.67	.26	25.93

615 7H9660

Station No. 12.06A Date: April 22 1925

Hour: 6.20 P. M. to 6.45 P. M.

Position: Lat. 41-56-00 Long. 70-18-30

Locality: West from Wood End Cape Cod
Fishing ground

Depth: 35 m Bottom: Sample:

Wind: Direction, S Force, 1-2

Sea: Sm. Sky: BC 1

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	6.6		-	6.6		
17	#6	5.80	9.0	-.03	5.77		
35	#2	5.00	6.5	-.02	4.98		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V1 m	30	6.20		
T1 1 ft #2		6.25	6.45	
T2 1 ft #2		"	"	
TB 1 m		"	"	

11—5314

NOTES

Depth	#	Read	Cor +	h	t
0	208	23.35	+1.03	24.38	9.6
17	"	23.15	+1.04	24.19	8.8
35	"	23.40	+1.03	24.43	8.7

Depth	σ_0	d	S	σ_{ts}	n	Δ
0	25.52		31.76	24.94	0	24.94
17	25.25		31.43	24.78	.08	24.86
35	25.47		31.71	25.09	.16	25.25

615 #9661

Station No. 12.06 Date: April 22 1975

Hour: 7.18 P.M. to 7.48 P.M.

Position: Lat. 41-55-20 Long. 70-09-15

Locality: off Wellfleet.

Depth: 30m Bottom: Sample:

Wind: Direction, S Force, 1-2

Sea: Sm Sky: BC 2

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	6.8		-	6.81		
15	#6	4.71	6.5	-.00	4.71		
30	#2	3.80	4.5	-.01	3.79		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V1m	25	7.25		
T1 1ft #2		7.25	7.45	
		"		
T2 1ft #2		"	"	
TB1m		"	"	
Beam trawl		"	"	

11—5314

NOTES

Depth	H	Rod	Cont	n	t	
0	208	23.55	+1.03	24.58	9.5	
15	"	23.50	+1.03	24.53	7.9	
30	"	23.95	+1.02	24.97	7.3	
Depth	σ_0	Cl	S	σ_{ts}	n	Δ
0	25.72		32.01	25.12	0	25.12
15	25.45		31.67	24.77	.07	24.84
30	25.88		32.21	25.62	.14	25.76

T1 T2 Diatoms very abundant

615 7.H.9662

Station No. 12.07 Date: April 23 1925

Hour: 6.35 A. M. to 7.15 A. M.

Position: Lat. 41-49-30 Long. 70-11-30

Locality: Belmegate Shoal

Depth: 12 m Bottom: Sample:

Wind: Direction, S.W Force, 2-3

Sea: Sh. Gr. Sky: BCZ5

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	6.30	-	-	6.3		
6	#6	-		-	-		
12	#2	6.50	8.0	-.02	6.48		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V, m	7	6.40		
T, ft	Surf	6.55	7.05	
T, ft	"	"	"	
T, m	12 m	"	"	

11—5314

NOTES

Depth	#	Read	Cont	h	t
0	208	23.40	+1.03	24.43	7.6
6					—
12	"	23.30	+1.03	24.33	7.7

Depth	σ_0	cl	s	σ_{ts}	r	Δ
0	23.34		31.55	24.80	0	24.80
6.					.03	
12	25.24		31.42	24.69	.06	24.75

FH.9663

615

Station No. 12,10 Date: April 23 1925

Hour: 9.25 A.M. to 10.00 A.M.

Position: Lat. 41-58-00 Long. 70-30-00

Locality: off Rocky Point

Depth: 45 m Bottom: Sample:

Wind: Direction, SW Force, 2

Sea: Sm Sky: BCZS

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	5.6			5.6		
22	#6	5.55	7.5	-.01	5.54		
44	#2	4.88	5.5	-.01	4.87		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
V1 m	40	9.25		
T1, 1 v #2	0	9.40	10.00	
T2, 1 v #2	0	"	"	
T.B 1 m	0-8	"	"	
Peterson with ½ Mnet	45 m	"	"	

11—5314

NOTES

Depth	#	Read	Corr	h	t
0	208	23.35	+1.03	24.38	8.5
22	"	23.35	+1.03	24.38	7.5
44	"	23.50	+1.03	24.53	7.6

Depth	σ_0	S	$\sigma_{t,s}$	n	Δ
0	25.39	31.60	24.93	0	24.93
22	25.26	31.44	24.83	.10	24.93
44	25.44	31.66	25.06	.20	25.26

615 7H9664

Station No. 12, 14 Date: april 23 191

Hour: 11 A.M. to 11.30 A.M.

Position: Lat. 42-05-00 Long. 70-35-00

Locality: Plymouth Bay

Depth: 20 m Bottom: Sample:

Wind: Direction, W Force, 1-2

Sea: Sm Sky: BCZ 4

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	5.3	-	-	5.3		
10	#6	5.10	7.0	-00	5.10		
20	#2	4.60	5.0	0	4.60		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME Down	TIME Up	Speed
✓ 1	15 m	11 AM		
T. ff	0	11.10	11.30	
T. ff	0	"	"	
T. M	0-8	"	"	
P. Trawl ½ M. net	20 m	"	"	

11—5314

NOTES

Depth	#	Read	Corr	N	t
0	208	23.45	+1.03	24.48	9.6
10	"	23.50	+1.03	24.53	8.0
20	"	23.50	+1.03	24.53	7.7

Depth	σ_0	S	$\sigma_{t,s}$	n	Δ
0	25.63	31.90	25.20	0	25.20
10	25.48	31.72	25.10	.05	25.15
20	25.46	31.69	25.12	.09	25.21

615 7H.9645

Station No. 12.18A Date: april . 23 191

Hour: 1 P.M. to 1.30P.M.

Position: Lat. 42-16-45 Long. 70-30-30

Locality:

Depth: 70m Bottom: Sample:

Wind: Direction, NW Force, 1

Sea: Sm Sky: BC24

TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correction	Corrected Temp.	W. Sample	Bottle used
0	1398	6.4	-	-	6.4		
35	#6	4.0	6.0	-.00	4.00		
70	#2	2.90	4.0	-.02	2.88		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
V.m	65 m	1.00		
T1	0	1.10	1.30	
T2	0	"	"	
TB1m	0 – 8 fathoms	"	"	

11—5314

NOTES

Depth	#	Read	Cont	h	t
0	208	23.35	+1.03	24.38	9.7
35	"	23.75	+1.02	24.77	7.8
70	"	24.25	+1.02	25.27	6.8

Depth	σ_0	S	σ_{ts}	η	Δ
0	25.60	31.86	25.05	0	25.05
35	25.71	32.00	25.33	.16	25.49
70	26.10	32.48	25.92	.32	26.24

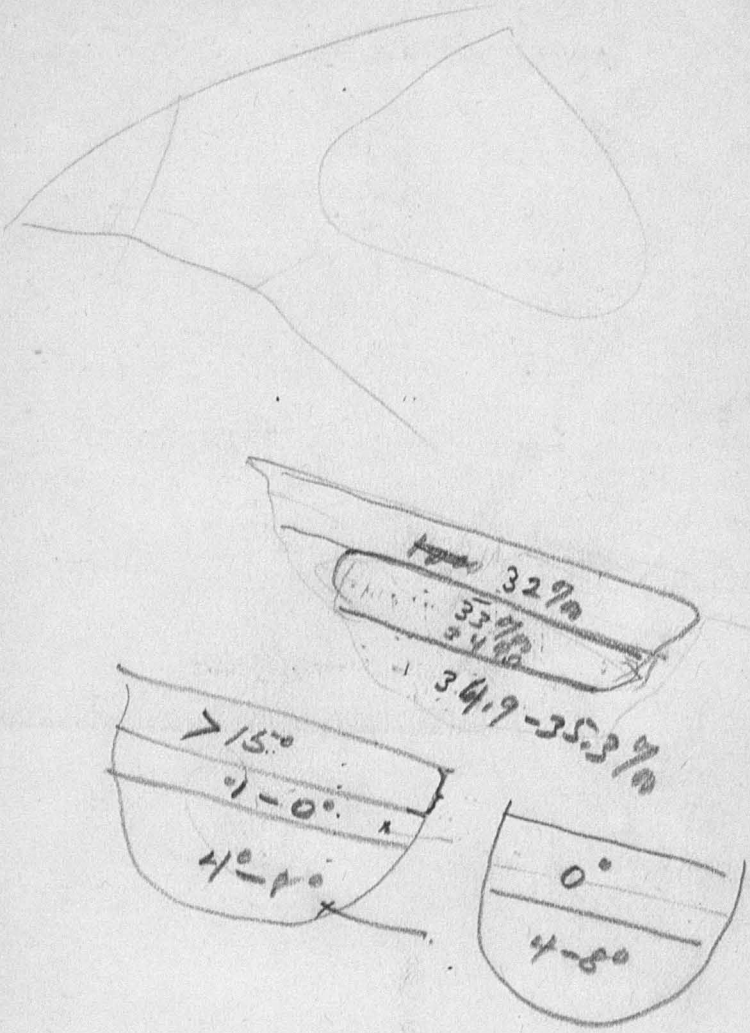
Drift Bottles

Number	Location sta	Date	Time
91	28	Apr. 7	1 AM
92	"	"	"
93	25	"	2 AM
94	25	"	"
95	23	"	3.20 AM
96	"	"	"
97	21	"	4.30 AM
98	"	"	"
99	29	"	6.10 AM
100	"	"	"
101	30	"	7.30 AM
102	"	"	"

P.M. Pm.

TB 1m = 1 meter net, 00-XXXX or stramin, or Bobinet top with scrim bottom.

T 1, 10t = #2 silk net 1 ft dia.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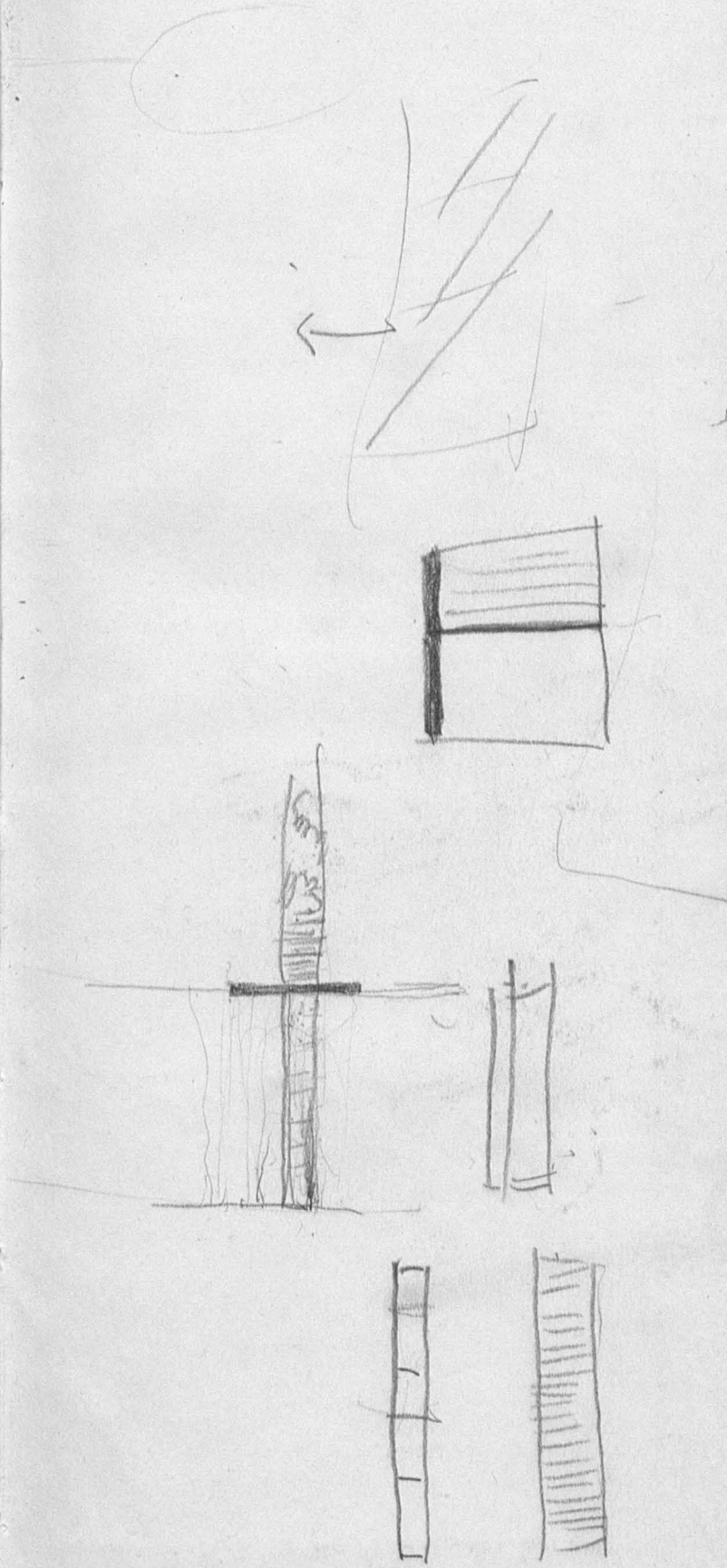

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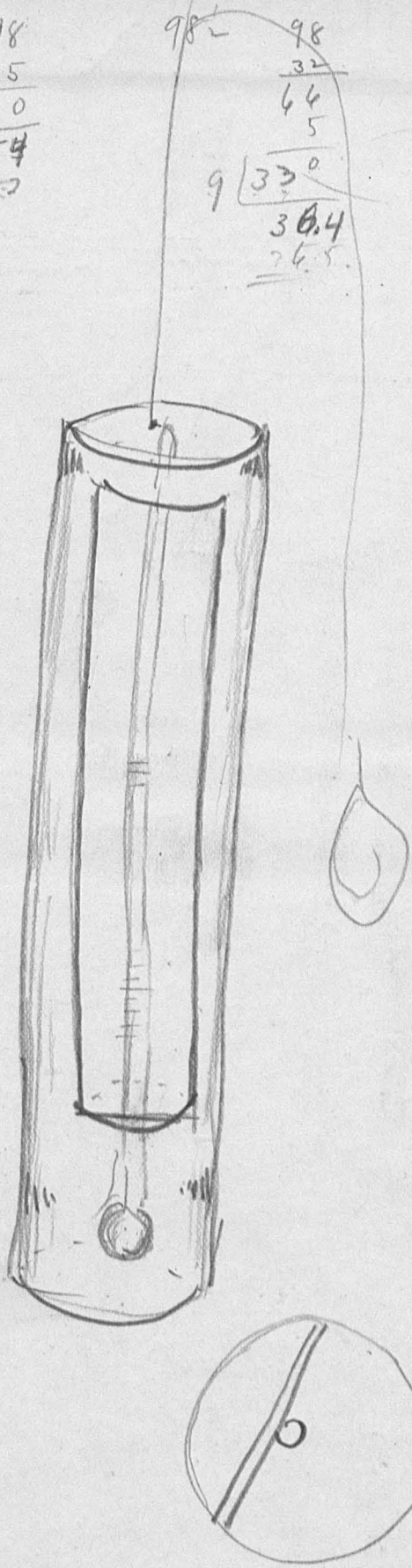
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