

8259 *Original*

Diag. Cht. No. 1203-3.

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE  
FIELD NOTES FOR  
DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. ECFP 1455 Office No. H 8259

LOCALITY

State Maine

General locality Penobscot Bay

Locality Muscle Ridge Channel

1945

CHIEF OF PARTY

Marvin T. Paulson

LIBRARY & ARCHIVES

**MAY 22 1958**

DATE

8259

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

**HYDROGRAPHIC TITLE SHEET**

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. H-8259

Field No. ECFP-1455

State MAINE

General locality PENOBSCOT BAY

Locality MUSCLE RIDGE CHANNEL

Scale 1:10,000 Date of survey 1 Aug. to 12 Oct. 1955

Instructions dated 14 Feb. 1955

Vessel EAST COAST FIELD PARTY

Chief of party MARVIN T. PAULSON

Surveyed by E.K. McCAFFREY

Soundings taken by ~~ALPHONSE~~, graphic recorder, hand lead, ~~water~~

Fathograms scaled by FIELD PARTY PERSONNEL

Fathograms checked by NORFOLK DISTRICT OFFICE

Protracted by A.G. ATWILL

Soundings penciled by A.G. ATWILL

Soundings in ~~XXXXXX~~ feet at MLW ~~XXXXXX~~

REMARKS:

*hmb*

DESCRIPTIVE REPORT  
TO ACCOMPANY

Hydrographic Sheet H- 8259 (Field No. ECFP 1455)

PROJECT 1265

SCALE 1:10,000

EAST COAST FIELD PARTY

1955

MARVIN T. PAULSON, CHIEF OF PARTY

\* \* \* \* \*

PROJECT This survey was accomplished under revised instructions 22/MEK FP-East Coast dated 14 February 1955.

These instructions superseded all prior instructions for this survey.

SURVEY LIMITS AND DATES The survey covered that portion of Penobscot Bay, Maine known as Muscle Ridge Channel. It is bounded on the south and southeast by Two Bush Channel, on the east by parallel 69°-01.8' W, and on the north and west by the coast of Maine.

Junctions were made with H-8177 1:20,000, 1954 to the east and north, and with contemporary survey H-8175, 1:10,000 to the south.

Work began on this survey 1 August and terminated 12 October 1955.

VESSELS AND EQUIPMENT Launch GS-172 was used in this survey. It operated from a mooring in the Weskeag River at S. Thomaston, Maine.

Echo soundings were obtained with 808 type fathometer No. 77, with transducers mounted inboard in bilges; and with EDO model 255 fathometer No. 201, operated with sounding units mounted outboard in a fish-type assembly.

Fathometer No. 77 was used for "a" through "k" days, u,v,w,z and aa days.

Fathometer No. 201 was used for l through t days, x and y day.

Some shoal sounding and bottom investigation were made by sounding pole and hand lead. Bottom samples were taken with an armed hand lead. There was no length correction to be applied to hand lead soundings.

TIDES AND CURRENTS Tide reducers for this project were obtained from a portable automatic tide gage maintained by party personnel at Rockland, Maine. The tide note is attached to this report. No current observations were made on this project.

SMOOTH SHEET The smooth sheet is to be plotted by the Norfolk Processing Office.

CONTROL STATIONS The balance of the control consisted of photo-hydro stations plotted on air photo manuscripts T-11129(s) T-11132 N, T-11132(s) and T-11133(N). Signals were located and transferred to the boat sheets by an experienced photogrammetrist.

Triangulation control used was:

Crescent Beach	Ash Island Day Beacon 1953
Steel Beacon 1911	Otter Island Black Spindle on ledge 1859
(South Range Day Beacon)	Otter Island Beacon 1934
	Garden Island Red Spindle 1859
	Emery Island Day Beacon 1943
	Sheet Id. Steel Bn. 1911(S.Range front day beacon)
Topographic stations recovered and used were:	
	Wood 1943, Anoa 1943, East Gable 1943

### SHORELINE AND TOPOGRAPHY

Shoreline and topographic details were transferred to the boat sheet from bromoid prints of manuscripts T-11129S; T-11132N; and T-11132N. The low water line was inked in BLACK when verified by the hydrographer. Corrections to the low water line were inked on the boat sheet in RED. In general, the low water or ledge line was correct and should be accepted in all cases except those corrected in RED.

*See zero curves on smooth sheet.*

### SOUNDINGS

Soundings were obtained using graphic recorders Nos. 77 and 201. Hand lead and sounding pole were used for some shoal investigations. No correction was applied to hand lead soundings.

Bar checks for both surveys comprising this project were summarized in the abstract attached to the original of this report.

808 type fathometer No. 77 was used with an initial setting of 0.0 feet. Any variation from this setting requires an index correction in addition to the attached velocity corrections.

EDO Model 255 fathometer No. 201 was used with an initial setting of 1.5 feet. This setting was established to give a minimum correction at all depths. An initial setting of 1.0 feet was used on "1" through "g" days. Soundings taken on these days must have a correction of  $\pm 0.5'$  to all soundings in addition to the velocity corrections.

### CONTROL OF HYDROGRAPHY

The sounding lines on this survey were controlled by the standard 3-point sextant fix method. Fixes on sounding lines were taken at  $1\frac{1}{2}$  minute intervals. No unusual jumps were observed in changing control stations.

### ADEQUACY OF SURVEY

This survey is considered adequate to supersede prior surveys; and in compliance with project instructions.

### CROSSLINES

Approximately 12% of the total sounding lines were cross-lines. Good agreement was noted at all crossings.

### COMPARISON WITH PRIOR SURVEYS

The previous survey of this area was, H-952a and H-953. As both were accomplished in 1867, no detailed comparison will be made here. In general no discrepancies were found. Junctions were made with survey H-7831, 1:10,000(1950) to the north; H-8177, 1:20,000(1954) to the east, and contemporary survey H-8175 to the south. All junctions were adequate as depth curves could be drawn between the junctions.

### COMPARISON WITH CHART

Soundings from the latest correction of Chart 322, 1:40,000 were transferred to the boat sheet in red. A comparison follows:

LATITUDE	LONGITUDE	CHART	1955	REMARKS
		322	SURVEY	
42° 41.86'	69° 06.68'	5	3	The least depth in this closely developed area was a fathometer sounding of 2.6 feet between positions 22-23v. It is recommended the charted depth be altered to 3 feet.
42° 01.75'	69° 06.60'	5	7	The least depth recorded was a 6.8 ft. fath. sounding between 100-101 c. It is recommended that the charted 5 be retained.

*50 m S.E.*

LATITUDE		LONGITUDE		CHART	1955	SURVEY		REMARKS
44°-01.78 <sup>6</sup>	69°-06.04 <sup>5</sup>	17	2				This is a detached pole sounding of 2.2 feet, position 1 g. It occurs 50 m SE of the charted 17 and is recommended for charting.	
44°-01.91 <sup>86</sup>	69°-06.41 <sup>41</sup>			Rock Awash			Located <sup>100m N.W. of charted position</sup> as charted, rock is position 1 f and bares 2 feet at MLW. <sub>Topo pos. is 50m S.E. of Hydro pos.</sub>	
44°-02.10 <sup>3</sup>	69°-05.59 <sup>4</sup>			Rock Awash	★		The chart states that Howie Rock, in this area bares 4 feet at mean low water. Position 6 f is a detached pole sounding, made at low water, and is a rock covered 0.8 feet at MLW. The only rock bare in this area is position 5 f 120 m W, which bares ½ foot at MLW. It is recommended 4 foot ht. on Howie Rock be deleted, but the symbol retained. There is considerable kelp in this area visible at ½ tide and below. This symbol should also be charted.	
44°-02.17 <sup>6</sup>	69°-05.06 <sup>4</sup>	1	X				This 1 foot spot located as charted. Position 1 x day. <sub>This is Howie Rk as charted.</sub>	
44°-02.17 <sup>4</sup>	69°-04.86 <sup>30</sup>	25	31				This charted sounding was not found. Sounding lines on either side of it show depths of 31 feet in regular bottom with no shoaling indicated. It is recommended that the 25 be deleted.	
44°-02.21	69°-04.21			Rocks Awash			The two rocks awash were located as charted. Positions 9-10 m day. <sub>also rock covered 1.9' (pos. 11 m)</sub>	
44°-02.87 <sup>6</sup>	69°-03.23 <sup>7</sup>	5	7				The least depth on this rock was a pole sounding of 6.8 feet recorded as position 17 m. It is recommended that the 5 foot sounding be retained.	
44°-02.93 <sup>4</sup>	69°-02.91 <sup>4</sup>	5	4				The least depth on this rock is a 4.2 ft. pole sounding recorded as position 16 m. It is recommended that the lesser depth be charted.	
44°-02.79 <sup>4</sup>	69°-02.59 <sup>4</sup>	3	2				The least depth on this rock is a 1.8 ft. pole sounding recorded as position 15 m. It is recommended that the lesser depth be charted. <sub>S.S. location is 100m N.W. of charted pos.</sub>	
44°-02.65 <sup>18</sup>	69°-02.72 <sup>18</sup>	17	17				The 17' charted sounding was verified by a 16.8 fath. sounding, between positions 124 - 125 p day. <sub>18.7</sub>	
44°-02.08 <sup>28</sup>	69°-02.30 <sup>23</sup>	21	31				The 21 foot charted sounding was not verified. However shoaling is indicated by the 31.0 fath. (pos. 46-47 w) sounding at its charted posit. It is recommended that the 21 foot sounding be retained. <sub>23' sdg. in pos. 46-47W.</sub>	
44°-01.41	69°-03.01			Rock Awash			The charted rock awash was located as position 103 p. The 16 foot charted immediately north was not verified, but is probably an extension of the rocky ledge and should be retained. <sub>17' (47-48p) found 80m N.E.</sub>	

★ Chart shows 1 ft. sounding

LATITUDE	LONGITUDE	CHART 322	1955 SURVEY	REMARKS
44° 00.8'	69° 02.2'	Rocks	Rocks	The rock awash was located as charted, position 74u. The sunken rock charted has a least depth of 0.8 foot (fathometer recorded between positions 77 - 78w. The area around these rocks is marked by keelp visible at half tide and below.
43° 59.3'	69° 02.7'	9	9	Located as charted. The least depth was an 8.8 foot verified by hand lead. It is recorded as position 100 t. <i>See 6.0' (98-99+)</i>
43° 59.5	69° 03.4	Rock	Awash	Located as charted (Position 81 t)
44° 01.92	69° 04.04	5	5	Located as charted. A least depth of 500 feet, verified by sounding pble (position 15 y).
44° 01.78'	69° 03.10'	15	9	A depth of 9.0 feet, fathometer - was recorded between positions 28 - 29 p day. It was verified on a crossline between 129 - 130 z. It is recommended that the lesser depth be charted.
44° 02.00	69° 03.62	8	<sup>10</sup> 12	This area was closely developed by a system of continuous sounding lines. The least depth found was <sup>78</sup> <del>11.6</del> feet between positions 33 - 34 y. It is recommended that the charted 8 be retained.
44° 00.40	69° 04.88	Sunken Rock	$\frac{1}{2}$	A depth of 0.4 feet was recorded on a continuous sounding line between positions 97 - 98 g. It is recommended that a rock awash symbol be charted to replace the present symbol. Reference 7822.
44° 00.94	69° 05.90	17	17	The charted 17 was verified by a fathometer sounding of 17.4 feet recorded between positions 45 - 46 aa.
44° 00.95	69° 04.88	5	18	The charted sounding of 5 feet was not verified. Some shoaling is indicated by the <sup>18.2</sup> <del>17.8</del> feet fathometer sounding of positions 28 - 29 x. It is recommended that the charted 5 foot sounding be retained until its existence is definitely disproved by wire drag. <i>also 18.4 (17-18x)</i>
44° 00.40	69° 06.10	10	4	This area was extensively developed, and a depth of 4.0 feet fathometer depth was recorded, positions 108 - 109 x. It is recommended that the lesser depth be charted. <i>May be stray from 8.0' see graph</i>
44° 00.33	69° 06.10	9	7	Development of this area have a least depth of 6.8 feet by pole sounding, position 23 r. It is recommended the least depth be charted.

LATITUDE	LONGITUDE	CHART 322	1955 SURVEY	REMARKS
44° 01.25	69° 05.85	6-7	10	The 6 foot charted sounding was not verified. The 9.6 foot fathometer sounding south of the charted position indicates a possibility of its existence. It is recommended that the 6 foot presently charted be retained.

44° 00.56	69° 06.68	10	5	Extensive development of this area yielded a least depth of 4.6 feet, fathometer position 27.4 This least depth should be charted.
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44° 00.90	69° 06.49	14	2	Development of this area showed a least depth of 2.4 feet, fathometer positions 59-60 v. This least depth should be charted.
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DANGERS AND SHOALS In the previous discussion, none of the depths recorded by the present survey which are materially less than those presently charted, are so located or are unmarked as to cause a menace to navigation.

COAST PILOT INFORMATION Coast Pilot are considered adequate for this area. The channel is well marked. No additions or changes to Coast Pilot are recommended.

AIDS TO NAVIGATION The following floating aids to navigation were located:

Name (1953 Light List)	Location	Depth	Vol.	Page	Date
Sunken Ledge Buoy 5	44° 00.28 69° 06.03	36	1	4	1/8/55
Oak Id. Ledge Buoy 8	44° 00.94 69° 04.80	19	4	33	29/8/55
Ash Id. Ledge Buoy 7	44° 01.85 69° 04.40	30	6	13	13/9/55
Upper Gangway Ledge Buoy	44° 01.90 69° 04.15	50	6	13	13/9/55
Ash Id. Rock Buoy 9	44° 02.10 69° 04.19	42	6	13	13/9/55
Inner Grindstone Ledge Buoy 10	44° 02.04 69° 03.64	60	6	13	13/9/55
Ash Island Bell Buoy 11	44° 02.38 69° 03.95	49	6	12	13/9/55
Emery Ledge Buoy 13	44° 02.80 69° 03.26	46	6	12	13/9/55

Name (1953 light list)	Location	Depth	Vol.	Page	Date
	o    i				
Northwest Ledge Buoy 15	44 02.88	22	6	12	13/9/55
	69 02.94				
Grindstone Ledge Buoy 12	44 02.88	27	6	12	13/9/55
	69 02.68				

LANDMARKS FOR CHARTS      No additional landmarks are recommended for charting.

GEOGRAPHIC NAMES      There are no changes to be made to Geographic Names.

MISCELLANEOUS      Time and weather stamps in the sounding volumes are made out employing the Beaufort wind scale and weather symbols.

Predicted tides were used to reduce all boat sheet soundings, with exception of least depths which were reduced by the use of actual tides.

Tide reducers are entered on the fathograms for the convenience of the Processing Office and at their suggestion.

Respectfully submitted

*EK McCaffrey*  
*by Direction*  
 Edwin K. McCaffrey  
 Ens., C&GS

Forwarded

*Marvin T. Paulson*  
 Marvin T. Paulson  
 LCDR., C&GS, Oinc

APPROVAL SHEET

Hydrographic Sheet H-8259 (Field No. ECFP 1455)

The sheet has been reviewed by me and is approved as complete and no additional surveys required. The survey was accomplished by a detached party so supervision and inspection of the sheet and records could not be made daily, but inspections were made periodically throughout the season to check records, progress, and make recommendations.

Your attention is invited to a modified method of entering sounding reducers. By verbal approval from the Chief, Coastal Surveys Division, and with special instructions from the Norfolk District Processing Office. Tide Reducers have been entered directly on the fathogram instead of the usual method of entering the reducers in the hydrographic Record Volumes. The Fathometer corrections have been listed and are a part of this report, and these also have not been entered in the Record Volume. *Tides entered in Vols. 6, 7, 8, 9, 10*

It is noted that a minimum of bar checks have been obtained on this survey, but close agreement is also noted and good crossings made. The strong currents and often rough waters caused poor checks and were therefore eliminated on those poor days.

*Marvin T. Paulson*  
Marvin T. Paulson  
LCdr., C&GS, OinC

TIDE NOTE TO ACCOMPANY  
HYDROGRAPHIC SURVEY SHEET H- 8259 ( ECFP 1455)

Tide data for the reduction of soundings was obtained from a portable automatic tide gage maintained at the U.S.Coast Guard Base Wharf, Rockland, Maine. The mean low water plane of reference on the tide staff was determined by the difference of elevations to previously established tidal bench marks ( 4 recovered). There was no time or range correction to be applied.

Station : Coast Guard Pier, Rockland, Maine

Position: Lat, 44° 06.28' Long. 69° 06.13'

MLW : 2.3 feet on staff

# VELOCITY CORRECTIONS

Velocity corrections are appended in the original of this report.  
A summary of the corrections follows:

Fathometer No. 201 (Initial set at 1.5 feet)

## Corrections in Feet

<u>A Scale</u>	<u>B Scale</u>	<u>C Scale</u>
0.00 to 12.0	0.0 to 80.0	2.0 to 147.5
+ 0.2 to 29.0	- 0.5 to 118.0	1.5 to 183.0
0.0 to 53.0	- 1.0 to 130.0	1.0 to 190.0
- 0.2 to 60.0		
- 0.5 to 70.0		

Fathometer No. 77

<u>A Scale</u>	<u>B Scale</u>	<u>C Scale</u>
0.0 to 3.0	+ 0.2 to 40.0	- 0.5 to 125.0
+ 0.2 to 17.0	+ 0.6 to 54.0	
0.0 to 24.0	+ 0.4 to 60.0	
- 0.2 to 31.8	+ 0.5 to 90.0	
- 0.4 to 45.0		
- 0.6 to 55.0		

<u>D Scale</u>
- 1.5 to 160.0

STATISTICS

<u>Date 1955</u>	<u>Day Letter</u>	<u>Vol. No.</u>	<u>Pos. No.</u>	<u>Stat. Mi. Sdg.</u>
1 August	a	1	1	0.0
2	b	1	108	16.2
3	c	1 & 2	157	24.3
5	d	2	121	17.4
18	e	2	43	4.6
22	f	3	166	28.3
23	g	3 & 4	119	20.0
29	h	4	14	2.4
30	j	4	110	13.7
2 September	k	5	102	12.9
12	l	5 & 6	154	23.2
13	m	6	20	0.0
14	n	6	143	24.1
15	p	7	157	23.8
21	q	7 & 8	74	12.6
22	r	8	47	8.2
23	s	8	131	22.3
26	t	9	109	17.0
27	u	9 & 10	143	24.3
30	v	10	124	21.4
3 October	w	10 & 11	82	14.2
5	x	11	115	18.5
6	y	11	61	8.0
11	z	12	177	26.3
12	aa	12	46	7.6
TOTALS		12	2,524	391.3

Area surveyed : 14.6 sq. stat. mi.

NORFOLK PROCESSING OFFICE  
LIST OF  
FLOATING AIDS TO NAVIGATION  
H-8259

<u>BUOY</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>DEPTH</u>	<u>POS. NO.</u>	<u>DATE</u>
Grindstone Ledge Buoy 12	44-02.88	69-02.66	28'	1m	9/13/55
Northwest Ledge Buoy 15	44-02.88	69-02.90	23'	2m	"
Emery Ledge Buoy 13	44-02.80	69-03.22	44'	3m	"
Ash I. Bell Buoy 11	44-02.36	69-03.94	56'	4m	"
Inner Grindstone Ledge Buoy 10	44-02.03	69-03.64	58'	5m	"
Ash I. Rock Buoy 9	44-02.10	69-04.18	41'	8m	"
Upper Gangway Ledge Buoy	44-01.88	69-04.11	66'	6m	"
Ash I. Ledge Buoy 7	44-01.83	69-04.40	43'	7m	"
Sunken Ledge Buoy 5	44-00.27	69-06.02	-	1a	8/1/55
Oak I. Ledge Buoy 8	44-00.95	69-04.89	-	14h	8/29/55

NORFOLK PROCESSING OFFICE  
LIST OF SIGNALS  
To Accompany  
H-8259

TRIANGULATION STATIONS

BEAK	ASH ISLAND DAYBEACON, 1953
BLA	OTTER ISLAND, BLACK SPINDLE ON LEDGE, 1859-1934
FONT	SHEEP ISLAND STEEL BEACON, 1911-43
OTT	OTTER ISLAND, BEACON, 1934
REAR	CRESCENT BEACH, STEEL BEACON, 1911
RED	GARDEN ISLAND, RED SPINDLE ON LEDGE, 1859-1934

TOPOGRAPHIC STATIONS

SOURCE T-11128 S/2

Dit	Dye	Eal	Era	Hat	Ire	Joy	Kay	Lit	Man
Pat	pol	Rum	Tel						

SOURCE T-11129 N/2

Mary

SOURCE T-11129 S/2

Ace	Air	All	Amp	Anoa	Ant	Ape	Art	Ash	Baf
Bat	Bob	Bus	Cad	Chi	Con	Cow	Cue	Dog	Don
Due	Ear	Eat	Eck	Edd	Eel	Fat	Fit	Fog	Foy
Gab	Gal	Get	Gun	Him	Imp	Ink	Its	Jam	Jap
Kit	Lag	Lie	Lop	Mat	Maw	Mid	Nan	Nob	Oak
Oar	Old	Ole	Pal	Pig	Pit	Ply	Pod	Ram	Rat
Ray	Row	Rig	Sax	She	Sim	Sin	Ski	Tag	Ten
Tie	Toy	Tut	Vex	Was	Wed	Wit	Wood		

SOURCE T-11133 N/2

Add	Boa	Cur	Dif	Dun	Egg	Fed	Hod	Pan	Paw
Sue	Top	Zoo							

# Additional chart comparisons -

## by - The Smooth Plotter

GRINDSTONE LEDGE AS CHARTED shows soundings of 17, 15, and 3 surrounded by deep water. Survey shows that this ledge connects with shoal water around Fisherman's Island with the 2' rock (pos 15m) separated from the ledge by deep water.

~~Chart shows \* symbol at 44°01.86, 69°06.62 survey to line 127-128 U~~

✓ 44°01.90 1.0 on 27-28 V area outside 6' curve on chart  
69°06.28

✓ 44°01.69 0.9 pole sounding pos 2f. No rock charted here. Shoalst charted in area 4'  
69°06.03 <sup>on rock</sup> Also 3f - 100 ft to south

✓ 44°01.38 chart shows 18' Survey 10.6 (95-96 b) approx 120 m S  
69°06.50

✓ 44°01.40 charted 8 not found shoalst 9.8 (pos 122-123 U) app 75 m N  
69°06.15

✓ 44°01.04 charted 20 not found shoalst 23.6 (43-44 c)  
69°06.08

✓ 44°01.22 charted 22 not found, shoalst 24.8 (107-108 f) 55 m WNW  
69°05.40

✓ 44°01.40 charted 30 28.6 Found 121-122 f 70 m N  
69°05.37

✓ 44°01.96 16.8 163-164 f not charted  
69°05.22

✓ 44001.97 16.8 118-119F not charted  
69005.35

✓ 44001.3 16. charted not found but area not developed  
69005.84

✓ 44001.10 Wiggins Rock 9 charted not found shoal found in area 15.8 (15-16f) 70m NNE  
69005.60

✓ 44001.19 9.8 36-37aa not charted. could be stray but clear 15' in same area  
69005.98

✓ 44001.33 charted 12 shoal found 17.8 155-156p 40m WSW  
69005.65

~~44001.16~~  
~~69004.04~~ 9.8 on 64-65K 11 shoal not charted

✓ 44001.29 4.4 -99-100K charted 9  
69003.68

✓ 44001.15 18.6-87-88K eastern limit of shoal area not charted  
69003.84

✓ 44001.19 180-146-147p charted 25  
69003.62

~~44001.99~~  
~~69003.62~~ 9.8 shoal on lower Grindstone ledge  
10 (33-34p) charted 8

✓ 44000.81 2.2 on 89-90V not charted  
69006.42

✓ 44000.85 14.4 61-62V charted 27  
69006.32

✓ 44° 00.49  
69° 06.50

28.8 19-20d charted 34

✓ 44° 00.23  
69° 06.35

30' charted not found shoalbot in area 59

✓ 44° 00.34  
69° 06.28

12.2 on 41-42d 31 charted

✓ 44° 00.22  
69° 06.67

charted 10'0 not found shoalbot 17 (51-52d) 60 m NNE

✓ 44° 00.58  
69° 05.99

charted 24 shoalbot found in area 32.6 (135-136c)

✓ 44° 00.17  
69° 05.80

32.6 49-50f shoalbot charted 27

✓ 43° 59.97  
69° 05.42

33.4 100-101f not charted

✓ 44° 00.26  
69° 05.25  
Rock awash

charted not verified on survey

✓ 44° 00.70  
69° 05.59

36 18f 26 charted

✓ 44° 00.92  
69° 05.72

10.4 - 40-41f NOT charted 18 charted approx 60 m E

✓ 44° 00.95  
69° 03.03

29.8 on 84-85p 42 charted

✓ 44000.80  
69003.30 9.5 60-61p Not charted

✓ 44000.80  
69003.39 3.4 16B-164z (could be shorter - apparent kelp) Not charted

✓ 44000.94  
69003.65 8.8 56-57p Not charted

✓ 44000.85  
69003.99 10.2 58-59x and 56-57r 3 charted Not found

✓ 44000.68  
69001.83 23.8 41-42t Not charted

✓ 44000.54  
69002.18 96. 80-81w charted 6

✓ 44000.52  
69002.60 7.0 75-76 u Not charted

✓ 44000.28  
69005.26 Rock awash charted - Not unified

INITIAL fairogram "U" day is very erratic, see particularly pos 44 and pos 70.

Soundings line 70-73u have not been plotted. See notes in volume 9

NORFOLK PROCESSING OFFICE  
ADDENDUM  
To Accompany

HYDROGRAPHIC SURVEY H-8259 (Field No. ECFP-1455)

GENERAL

This appears to be an excellent basic survey in an area of extremely irregular bottom. Some additional development lines would have been helpful in determining the configuration and the least depths on shoals.

A comparison with chart 322 shows numerous changes, however, none of a critical nature fall in Muscle Ridge Channel. The smooth plotter has shown most of the critical soundings, along with their position numbers, on an overlay accompanying the smooth sheet.

DISCREPANCIES

The initial on the fathogram for "u" day is extremely erratic. See positions 44u and 70u.

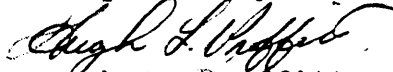
The soundings between positions 70 and 73u were not smooth plotted. See notes in volume 9, pages 57 and 58.

SOUNDINGS

All fathograms were check scanned and the soundings reduced with templates by personnel of the Norfolk Office. The agreement of soundings at crossings is considered good.

Norfolk, Va.  
15 May 1958

Respectfully submitted,

  
Hugh L. Proffitt  
Cartographer.

## GEOGRAPHIC NAMES

Survey No. H-8259

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
<u>Maine</u>			(title)							1
<u>Penobscot Bay</u>			"							2
<u>Muscle Ridge Channel</u>			"							3
<u>Andrews Island</u>										4
<u>Dix Island</u>										5
<u>Sprucehead Island</u>										6
<u>False Whitehead Harbor</u>										7
<u>Weskeag River</u>								BGN		8
<u>Spaulding Island</u>										9
<u>Otter Point</u>										10
<u>Ash Point</u>										11
<u>Ash Island</u>										12
<u>Fisherman Island</u>										13
<u>Fisherman Island Passage</u>			(after inking)					BGN		14
			Names approved 6-30-58							15
<u>Tide station off sheet:</u>										16
<u>Coast Guard Pier, Rockland</u>										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27
										M 234

All names currently shown on charts  
322, 313 and 310 are approved, if  
additional names are desired.

h. Neck

# Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ~~.8259~~... .8259...

## Records accompanying survey:

Boat sheets ~~..1..~~; sounding vols. ~~..12..~~; wire drag vols. ....; bomb vols. ....; graphic recorder rolls ~~13~~ Envelopes special reports, etc. ~~.1-Smooth sheet and .1-Descriptive report, .1-Blackline impression T-11170, Ph-116, .1-Blackline Impressions, Ph-104 T-11128S; T-11129N&S; T-11132N&S; T-11133N.~~

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	.....
Number of positions checked	.....
Number of positions revised	.....
Number of soundings revised (refers to depth only)	.....
Number of soundings erroneously spaced	.....
Number of signals erroneously plotted or transferred	.....
Topographic details	Time .....
Junctions	Time .....
Verification of soundings from graphic record	Time .....

Verification by.....Total time ..... Date .....

Reviewed by..... Time ..... Date .....

VERIFIER'S REPORT OF HYDROGRAPHIC SURVEY NO. H- 8259

The verifier should deal with the present hydrographic survey only, as the reviewer considers its relation to previous surveys and published charts. He should be thoroughly familiar with Chapters 3, 7 and 9 of the Hydrographic Manual.

1. The descriptive report was consulted and appropriate notes were made in soft pencil regarding action taken.
2. Soundings originating with the survey and mentioned in the descriptive report have been verified, including latitude and longitude.
3. All reference to survey sheets mentioned in the descriptive report include the registry number and year.
4. Geographic names of hydrographic features if on sheet are in slanting lettering and of topographic features in vertical lettering.
5. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken.
6. All positions verified instrumentally were check marked in the sounding records.
7. All critical soundings are clear and legible and are a little larger than the adjacent soundings.
8. The metal protractor has been checked within the last three months.
9. The protracting and plotting of all bad crossings were verified.
10. All detached positions locating critical soundings, rocks or buoys were verified.
11. The boat sheet was compared with the smooth sheet.

- 12 The spacing of soundings as recorded in the records was closely followed.
13. The bottom characteristics were shown on outstanding shoals.
14. The reduction and plotting of doubtful soundings were checked.
15. The transfer of contemporary topographic information was carefully examined.
16. All junctions were transferred and overlapping curves made identical.
17. The notation "JOINS H- (19--)" was added in ink for all contemporary adjoining or overlapping sheets now registered. Those not verified are shown in pencil.
18. The depth curves have been inspected before inking.
19. All triangulation stations and transfer of topographic and hydrographic signals were checked.
20. Heights of rocks were checked against range of tide.
21. Rocks transferred from topographic surveys have a dotted curve where shown thereon. Rocks located accurately by hydrographer are encircled by dotted red curve.
22. Unnecessary pencil notes have been removed.
23. Objects on which signals are located and which fall outside of the low water line have been described on the sheet.
24. The low water line and delineation of shoal areas have been properly shown.
25. Degree and minutes values and symbols have been checked.
26. Questionable soundings have been checked on the fathograms.

27. Source of shoreline and signals (when not given in report).
28. All notes on sheet are in accordance with figure 171 in the Hydrographic Manual.
29. All aids located, with those on contemporary topographic sheets, have been shown on survey.
30. Depth curves were satisfactory except as follows:
31. Sounding line crossings were satisfactory except as follows:
32. Junctions with contemporary surveys were satisfactory except as follows:
33. Condition of sounding records was satisfactory except as follows:
34. The protracting was satisfactory except as follows:
35. The field plotting of soundings was satisfactory except as follows:
36. Notes to reviewer:

Verified by

Date

RHC

TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens

10 July 1958

Plane of reference approved in  
12 volumes of sounding records for

HYDROGRAPHIC SHEET 8259

Locality Penobscot Bay, Maine

Chief of Party: M. T. Paulson in 1955

Plane of reference is mean low water, reading

2.4 ft. on tide staff at Rockland

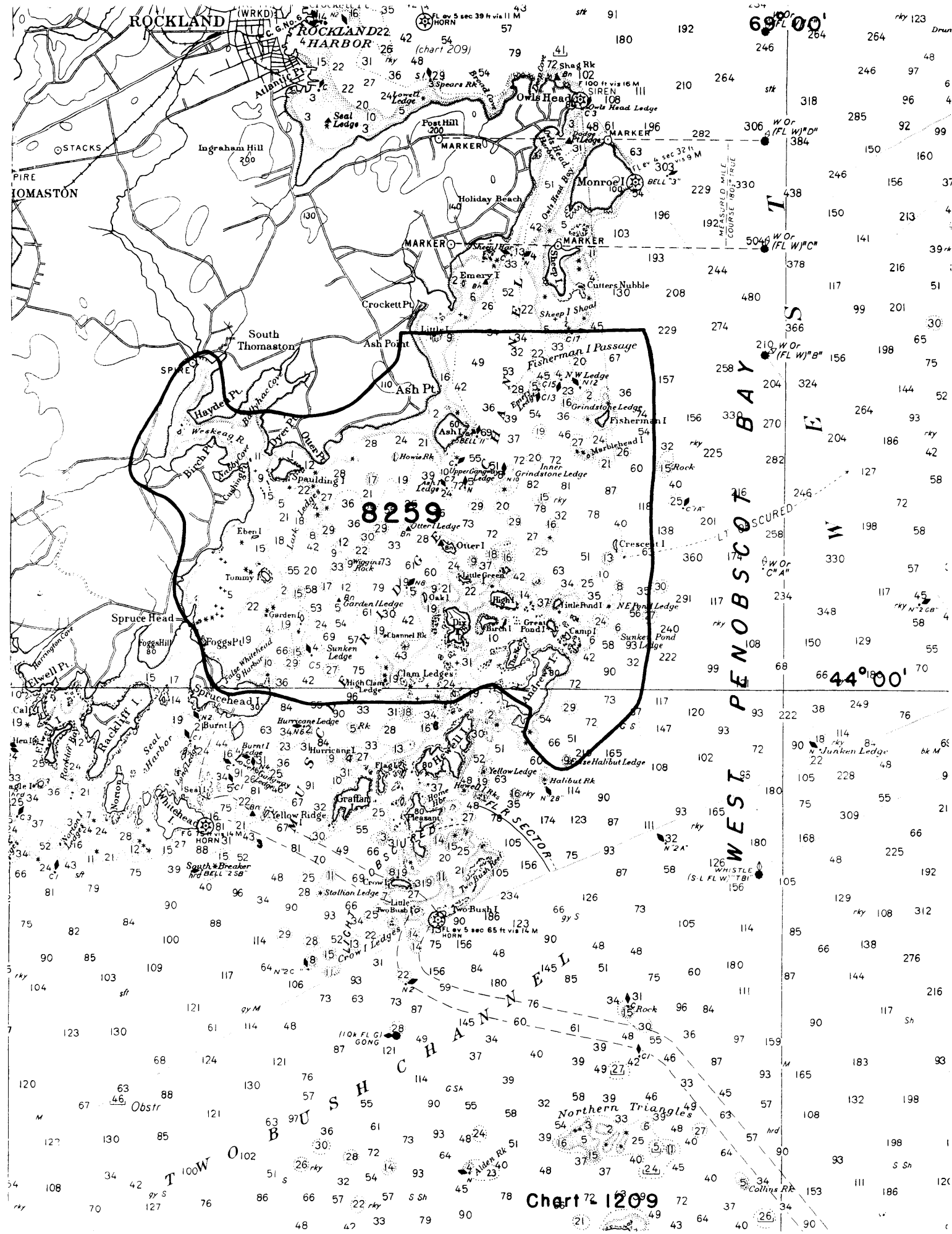
16.0 ft. below B.M. 1 (1945)

Height of mean high water above plane of reference is 9.7 feet.

Condition of records satisfactory except as noted below:

  
Signature

Chief, Tides Branch



# NAUTICAL CHARTS BRANCH

SURVEY NO. H-8259

Record of Application to Charts Bp 53201

DATE	CHART	CARTOGRAPHER	REMARKS
3 July 58	<sup>13301</sup> 1203	H. MacEwen	Before <del>After</del> <i>Partially applied.</i> Verification and Review
6/23/58	<sup>13303</sup> 322	L A M	Before <del>After</del> Verification and Review
7/20/59	<sup>13307 (20)</sup> 209	C. Helmer	<i>Shoal Soundings &amp; rocks only</i> Before <del>After</del> Verification and Review <i>Full</i>
8-19-59	<sup>13305 (40)</sup> 310	C. R. Wittman	Before <del>After</del> Verification and Review <i>cut edge only</i>
4-30-62	<sup>13306</sup> 310	C. R. Wittman	Before <del>After</del> Verification and Review
6-4-62	<sup>13302 (80)</sup> 1203	M. Rogers	<i>Applied</i> Before <del>After</del> Verification and Review <i>then chart 310</i>
6-28-63	<sup>13303 (40)</sup> 322	M. Rogers	<i>Reconstruction.</i> Before <del>After</del> Verification and Review <i>then chart 310</i>
5-7-85	13307	Ken Rauscher	Before <del>After</del> Verification and Review <i>Adequate</i>
5-9-85	13305	Ken Rauscher	Before <del>After</del> Verification and Review <i>Adequate</i>
5-9-85	13303	Ken Rauscher	Before <del>After</del> Verification and Review <i>Adequate</i>
10/29/92	13302	L. Arbman	Re-examined No further Application necessary

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.