8178

Diag. Cht. No. 1203-3.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. GI-2354 Office No. H-8178

LOCALITY

State Maine

General locality West Penobscot Bay

Locality Stand-In Point to Lang Island

1954

CHIEF OF PARTY

H. C. Fortin

LIBRARY & ARCHIVES

DATE January 12, 1956

USCOMM-DC 5087

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-8178
Field No. G1-2354

| State | MA INE |
|---------------------------|---|
| General locality | WEST PENOBSCOT BAY |
| Locality | STAND - IN POINT TO LONG ISLAND |
| Scale 1:20,000 | Date of survey 24 May to 17 Oct. 1954 |
| Instructions dated | 16 & 25 FEBRUARY 1954 |
| Vessel | GILBERT |
| Chief of party | HENRY O. FORTIN |
| Surveyed by | ENRY O. FORTIN. DALE E. WESTBROOK & R.T. KOOPMAN |
| Soundings taken by | different, graphic recorder, Hand Tend, wire |
| Fathograms scaled by | SHIP PERSONNEL & NORFOLK PROCESSING OFFICE |
| Fathograms checked by | SHIP PERSONNEL & NORFOLK PROCESSING OFFICE |
| Protract ed by | A.K. SCHUGELD |
| Soundings penciled by . | A.K. SCHUGELD |
| Soundings in YACKO | feet at MLW MINION and are true depths. |
| | y was smooth plotted in the Hydrographic Section of the |
| Norfolk Processing | Office. |
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DESCRIPTIVE REPORT

PROJECT CS-265

BOAT SHEET NOS. GI-2154, GI-2254 & GI-2354

VICINITY OF PENOBSCOT BAY, COAST OF MAINE

24 MAY 1954 TO 17 OCTOBER 1954

COMMANDER HENRY O. FORTIN - COMMANDING

A. PROJECT

Revised instructions, Project CS-265(Ref. 22/MEK S-2-GI, S-2-ST) dated 16 February 1954, to Commanding Officers Ships GILBERT & STIRNI. Supplemental instructions, dated 25 February 1954, consisted of general Instructions for Combined Operations Surveys, addressed to Commanding Officers of all ships, and officers in charge of hydrographic field parties.

B. SURVEY LIMITS AND DATES

This report will encompass all work done on three ship sheets, GI-2154(H-8176), GI-2254(H-8177), and GI-2354(H-8178) since they were adjoining sheets and all were accomplished in the same relative manner with the same equipment. Field work began 24 May 1954, and ended 17 October 1954.

Sheet GI-2154(H-8176); located in vicinity of W. Penobscot Bay, Maine: Approximate limits:

Lat. $43^{\circ}-52^{\circ}$ on the south to Lat. $43^{\circ}-58^{\circ}$ on the north. Long. $69^{\circ}-00^{\circ}$ on the east to Long. $69^{\circ}-14^{\circ}$ on the west.

Junctions with prior surveys:

H=6982, 1944, 1:20,000 and H=7054, 1945, 1:10,000 on south. H=6984, 1944, 1:10,000 on the west.

Junctions with 1954 surveys:

GI-1154(H-8175), 1:10,000 on the north. GI-2254(H-8177), 1:20,000 on the east.

Sheet GI-2254(H-8177); located in vicinity of W. Penobscot Bay, Maine: Approximate limits:

Lat. $43^{\circ}-57^{\circ}$ on the south to Lat. $43^{\circ}-05^{\circ}-30^{\circ}$ on the north. Long. $68^{\circ}-44^{\circ}$ on the east to Long. $69^{\circ}-03^{\circ}$ on the west.

Junctions with prior surveys:

H-7056, 1945, 1:20,000 on the south. H-7150, 1946, 1:10,000 on the east. H-7832, 1950, 1:20,000 on the west. H-7831, 1950, 1:10,000 on the north.

Junctions with 1954 surveys:

ST-2154(H-8168), 1:20,000 on the south. GI-2154(H-8176), 1:20,000 on the west. GI-2354(H-8178), 1:20,000 on the north.

Sheet GI-2354(H-8178); located in vicinity of W. Penobscot Bay, Maine: Approximate limits:

Lat. $44^{\circ}-05^{\circ}-30^{\circ}$ on the south to Lat. $44^{\circ}-18^{\circ}-30^{\circ}$ on the north. Long. $68^{\circ}-50^{\circ}$ on the east to Long. $69^{\circ}-01^{\circ}-30^{\circ}$

Junctions with prior surveys: H-7832, (1950), 1:20,000 and H-7830, (1950), 1:10,000 on the west.

Junctions with 1954 surveys: GI-2254(H-8177), 1:20,000 on the south. Review, par. 4. Two small areas were developed by the ship in the vicinity of Rockland, Maine on this sheet. One is approximately bounded by Lat. $44^{\circ}-06.3^{\circ}$ to Lat. $44^{\circ}-06.6^{\circ}$ and Long. $69^{\circ}-05.0^{\circ}$ to Long. $69^{\circ}-05.7^{\circ}$. The other is approximately bounded by Lat. $44^{\circ}-05.9^{\circ}$ to Lat. $44^{\circ}-06.3^{\circ}$ and Long. $69^{\circ}-02.5^{\circ}$ to Long. $69^{\circ}-03.2^{\circ}$.

Review, par. 5c.

Although there was dense fog on a good many days which hampered the progress of actual hydrography, on those days signals were built and temperature and salinity data were obtained. The actual progress on the sheets was considered good. A very small amount of lost time was attributed to fathometer or equipment breakdowns.

C. VESSEL AND EQUIPMENT

The Ship GILBERT was used exclusively for the work on all three sheets. Much of the work was comparatively close to the town of Rockland, Maine so the ship was operated out of the Coast Guard Base in Rockland Harbor.

One 808 type fathometer, No. 161-SPX, was used for all work on these three sheets. The transducer and receiver units were placed in the bilges next to the hull of the ship.

Bottom samples were taken with an armed lead attached to a wire which ran through a registering sheave, and from there to a hand operated sounding machine. The wire soundings at these points cannot be considered accurate, since the wire was very seldom in a truly vertical position when the soundings were taken. In each case, a check fathometer sounding was taken and should be used as the true soundings on bottom sample positions.

D. TIDE AND CURRENT STATIONS

GI-2154(H-8176):

A portable automatic tide gage was in operation throughout this survey at PORT CLYDE, MAINE (Lat. 43°-55.49', Long. 69°-15.55') The records from this gage were applied to all sounding records on this sheet.

GI-2254(H-8177):

A portable automatic tide gage was in operation throughout this survey at VINALHAVEN on VINALHAVEN ISLAND, MAINE (Lat. 440-02.60', Long. 68-50.37'). The records from this gage were applied to all sounding records on this sheet.

GI-2354(H-8178):

A portable automatic tide gage was in operation throughout this survey at ROCKLAND, MAINE (Lat. 440-06.28', Long. 690-06.12'). The records from this gage were applied to all sounding records on this sheet.

The reducers in the sounding volumes were entered with no time or range corrections for all three sheets.

No current stations were occupied.

Smooth sheets will be constructed and plotted by the Norfolk Processing Office.

F. CONTROL STATIONS

Sheet GI-2154(H-8176):

Triangulation Control:

Burnt Is. 2, 1934, r. 1943 Green Is. W'ly Bldg. 1913, r. 1943 Whitehead Lt. Ho. 1859, r. 1943 Tenants Hbr. Lt. Ho. 1859, r. 1943 Metinic, 1858, r. 1945 Two Bush Is. Lt. Ho., 1902, r. 1943 Yellow Ridge Spindle Bn., 1934, r. 1943

Topographic Control:

N. Gab. Coast Guard Ho., T-5620

W. Gab. Ho., 1943, T-8007

Other stations were located from Topographic sheets T-11132S, T-11132N, T-11133N/2, and three stations were the same as those used by the ships WAINWRIGHT & HILGARD on sheet HI & WA-2154.

Sheet GI-2254(H-8177):

Triangulation Control:

Brimstone Is.,1910, r. 1943
Heron Neck Lt. Ho., 1868, r. 1943
Saddleback Ledge Lt. Ho., 1861, r. 1943
Vinalhaven Water Tower, 1910, r. 1943
Two Bush Is. Lt. Ho., 1902, r. 1943

Other stations were located from Air Photo Compilation Sheets T-8025 and T-8030, PH-104 Sheet B, and photogrammetric manuscripts T-11133N/2 and T-11129S.

Sheet GI-2354(H-8178):

See Processing Office List of signals

Triangulation Control:

Drunkard Ledge Bn., 1943, r. 1954
Rockland Breakwater Lt. Ho., 1902, r. 1943
Shag Rock Bn., 1934, ex. 1902, r. 1943
Duck Trap Church Spire, 1861, r. 1946
Camden White Brick Stack, 1934, r. 1943
Mt. Battie Memorial Obsy., 1934, r. 1943
Jameson Pt., Samoset Hotel Water Tank, 1934, r. 1943
Owls Head Lt. Ho., 1858, r. 1943
Mark, 1911, r. 1943
Negro Island Lt. Ho., 1911, r. 1943
Goose Island, 1911, r. 1943
Indian Island Lt. Ho., 1904, r. 1943

Not Applicable to present survey

Fiddlers Ledge Stone Bn., 1859, r. 1943
Round(Pavilion near Spruce Head) 1911, r.1946
Compass Is., 1911, r. 1943
Mark Is., 1911, r. 1943
Job, 1944

Topographic Control: (Air Photo Compilation) Chimney(west gable), 1946, T-8032 Jack, 1946, T-8021 (Traverse) Pole, 1954, PH-104 Sheet A (Traverse) Chimney, 1946, T-8021 Even, 1946, T-8021 (Traverse) White Silo, 1943, T-8011 Chimney(on white house), 1943, T-8009 Spire Church, 1943, T-8009 Gable(south, yellow cottage), 1946, T-8023 Gable(west, white boat ho.), 1946, T-8023 Gable (west, white house), 1946, T-8023 Gable, 1946 (north gab. hip-roofed house), T-8021 N. Gable Ferry Ho., 1946, T-8012 Chimney, 1946, T-8021 N. Cupola Gray Barn, 1946, T-8012 Gable, 1946, T-8021 The Graves Light, 1943, T-8010 Grindel Point Lt., 1946, T-8021 Monroe Is. Lt., 1943, T-8009 Largest Chimney(gray house), 1946, T-8023

The remaining signals on this sheet were located by sextant fixes (see Sketchbook Vol. 3), and by theodolite cuts (see PH-104 sheet A and PH-104 sheet B).

G. SHORELINE AND TOPOGRAPHY

Shoreline on the boat sheets was sketched in by the photogrammetrist assigned to aid the GILBERT'S work, but this was only done to facilitate hydrographic operations. The verification of shoreline does not apply on any of these three ship sheets.

Review par. 1.

H. SOUNDINGS

All depths were measured by 808 type fathometer No. 161-SPX. All development was done in a criss-cross pattern and no handlead soundings were taken on shoals. The usual fathometer corrections (velocity, phase and initial), were calculated and inserted in the sounding volumes where each applied. There were no unusual methods or equipment used.

I. CONTROL OF HYDROGRAPHY

Visual 3-point fixes were obtained exclusively on all three sheets with the use of USC&GS hydrographic sextants and one continuous tangent screw Navy type sextant. Fixes were plotted with a celluloid three-arm protractor with extensions. For the most part, strong fixes were obtained except under adverse conditions such as fog and haze. The control itself was adequate and strong.

Due to a small inaccuracy in the location of signal PAW(GI-2154, and GI-2254), there were several jumps in the plotting of some fixes on the boat sheet when using that signal. These jumps were almost negligible and when the signal was repositioned on the sheet, it was thought that the plotting of the fixes was accurate enough for a boat sheet. The smooth sheet plotter should have no trouble with those fixes.

Not ble applicable applicable to present to survey

J. ADEQUACY OF SURVEY

The surveys were complete and are adequate to superfede prior Review per. 5. surveys for charting.

Since there were few very dangerous shoals and relatively deep water in these surveys, fathoms instead of feet were used exclusively in the original records on all three sheets. Reducers were entered to the nearest 0.1 fathom for depths under 10 fathoms for more accuracy in the shoaler depths. It was felt that sounding in fathoms in an area such as this increased the all around accuracy of the surveys due to the convenience of less phase shifting in the greater depths.

All junctions with adjoining surveys seemed satisfactory and no holidays exist. Depth curveys can be adequately drawn on the sheets as a whole and also at the junctions.

There are no special submarine features, except for the ruggedness of the bottom.

K. CROSSLINES

Adequate crosslines amounting to at least 10 percent were run. There were no large discrepancies in comparing them to the main scheme of lines. The rugged bottom made it difficult to pin down actual discrepancies, however.

L. COMPARISON WITH PRIOR SURVEYS See Review, par. 5.

As far as can be determined, the new surveys compare favorably with prior surveys of those areas. However, since the available prints of the old surveys are not too legible, it was decided to compare certain definite shoal soundings with the charts of the areas concerned.

M. COMPARISON WITH CHARTS

Sheet GI-2154(H-8176):

This sheet was compared with charts #322, 1:40,000, 1950 (corrected to 1954) and #313, 1:40,000, 1949 (corrected to 1954).

Sheet GI-2254(H-8177):

This sheet was compared with charts #310, 1:40,000, 1937 (corrected to 1954) and #322, 1:40,000, 1950 (corrected to 1954).

Sheet GI-2354(H-8178):

This sheet was compared with chart #310, 1:40,000, 1937 (corrected to 1954).

9-5-55 in the review

N. DANGERS AND SHOALS

GI-2154(H-2176)

| No. | Latitude | Longitude | Survey Depth | Chart Depth | Pos. No. | |
|-----|-------------------------|-------------------------|--------------|-------------|---------------|---|
| 1 | 430-52.391 | 690-12.881 | 57 ft. | 85 ft. | 98-99N | |
| 2 | 430-54.401 | 69°-13.32' | 44 ft. | 38 ft. | 48-49D | |
| 3 | 43°-55.30' | 69°-09.951 | 57 ft. | 69 ft. | 57-58N | |
| 4 | 43°-57.22' | 69°-10.46' | 36 ft. | 38 ft. | 117M | |
| 5 | 43°-55.39' | 69°-08.71' | 38 ft. | 34 ft. | 102-103R | |
| 6 | 43°-56.11' | 69°-08.69' | 51 ft. | 63 ft. | 57-58E | |
| 7 | 43°-54.77' | 69°-07.891 | 40 ft. | 49 ft. | 174-175M | |
| 8 | 43°-55.71' | 69°-05.981 | 31 ft. | 36 ft. | 110-111K | , |
| 9 | 430-55.171 | 69°-05.48' | 22 ft. | 25 ft. | 69-70Н | , |
| 10 | 43°-55.511 | 69°-05.09' | 18 ft. | 14 ft. | 108-109P | |
| 11 | 43 ⁰ -56.871 | 69 ⁰ -06.39' | 54 ft. | 127 ft. | 13-14P | • |
| 12 | 43°-58.20° | 69°-06.581 | 48 ft. | 84 ft. | 1-2R | , |
| 13 | 43°-58.08' | 69°-06.80' | 50 ft. | 34 ft. | 2 - 3A | |
| 14 | 43°-57.40° | 69°-06.04° | 12 ft. | 8 ft. | 13-145 | |
| 15 | 43°-56.691 | 69°-03.761 | 54 ft. | 34 ft. | 116R | |
| 16 | 43°-57.50' | 69°-03.69' | 48 ft. | 51 ft. | 4-5H | |
| 17 | 43°-56.521 | 69°-02.631 | 42 ft. | 39 ft. | 60Q | |
| 18 | 43°-56.981 | 69°-02.02' | 18 ft. | 15 ft. | 219-220P | |

Sufficient development was not done on Nos. 2,5,10,13,14,17 and 18 to disprove or prove the charted soundings, but all of them were close enough to the charted values so that the charted soundings can be considered correct.

Due to better development or better methods than previously used, shoaler depths were found on Nos. 1,3,4,6,7,8,9,11,12 and 16. survey depths should be used to supercede the charted depths.

On no. 15, although some development was done at this spot, the surveyed depths did not approximate the depth as charted. The 34' charted depth, however, should not be removed from the chart unless verified or disproved by a wire drag survey or some other method.

The P.D. sunken wreck (Lat. 43°-56.42', Long. 69°-08.09') has been wire-dragged. Reference is hereby made to a chart letter from the Co. O. Ships HILGARD & WAINWRIGHT to the Director dated 27 December 1954.

Sheet GI-2254(H-8177)

| No. | Latitude | Longitude | Survey Depth | n Chart | Depth | Pos. No. |
|-----|------------|-------------------------|--------------|---------|----------|---------------------------|
| ı | 430-58.341 | 690-01.461 | 53 ft. | 58 | ft. | 224-225Q |
| 2 | 43°-58.621 | 69°-01.31' | 43 ft. | 33 | ft. | 241-242Q |
| 3 | 43°-59.55' | 68°-59.651 | 23 ft. | 18 | ft. | 84 V |
| 4 | 43°-59.55' | 68°-57.95' | 57 ft. | 69 | ft. | 179-1807 |
| 5 | 44°-01.71' | 69°-01.38' | 24 ft. | 25 | ft. | 11-12% |
| 6 | 44°-02.081 | 69°-01.58° | 14 ft. | 15 | ft. | 134-135Q |
| 7 | 43°-58.30' | 68°-59.31' | 56 ft. | 87 | ft. | 91 - 92J |
| 8 | 44°-03.481 | 68°-57.951 | 29 ft. | 30 | ft. | 204-205J |
| 9 | 44°-03.081 | 68°-57.00' | 14 ft. | 11 | ft. | 35-36W |
| 10 | 44°-03.03' | 68°-57.70° | 33 ft. | - 30 | ft. | 9 -1 0Y |
| 11 | 44°-02.74' | 68°-57.12' | 17 ft. | 18 | ft. | 24-25W |
| 12 | 44°-02.53' | 68°-57.521 | 28 ft. | 30 | ft. | 257 - 258 M |
| 13 | 44°-01.28' | 68 ⁶ -57.481 | 37 ft. | 34 | ft. | 26-27 Y |
| 14 | 44°-01.90' | 68°-55.66¹ | 22 ft. | 18 | ft. | 187 – 1880 |
| 15 | 44°-01.48' | 68°-54.69' | 52 ft. | 69 | ft. | 1847 |
| 16 | 430-59.41 | 68°-53.941 | 52 ft. | 64 | ft. | 269 - 270 X |
| 17 | 44°-00.76' | 68°-52.25' | 43 ft. | 23 | ft. | 243 – 244₹ |
| 18 | 43°-58.30 | 68°-48.78' | 53 ft. | 100 ft. | (approx) | 112-113R |
| 19 | 43°-57.801 | 68°-48.19' | 55 ft. | 123 ft. | (approx) | 256-257P |
| 20 | 43°-56.921 | 68°-47.8 9 ' | 69 ft. | 180 ft. | (approx) | 90-91 M |
| 21 | 43°-58.25 | 68°-45.09' | 49 ft. | 52 | ft. | 130 - 131P |
| 22 | 43°-58.211 | 68°-46.77' | 47 ft. | 63 | ft. | 87 –8 8P |
| 23 | 43°-57.891 | 68°-46.62' | 61 ft. | 90 | ft. | 157-158L |

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Due to lack of complete development over Nos. 2,3,9,10,13 and 14, the depth obtained was not quite as shoal as the charted depths. but they were sufficiently close to verify those depths. Use charted o depths on these positions.

Shoal depths found by this survey to superfede the charted depths were Nos. 1,4,5,6,7,8,11,12,15,16,18,19,20,21,22, and 23.
Use survey depths on the positions.

The charted depth on shoal No. 17 should not be superfeded by the surveyed depth since there was not enough development to warrant this action. The charted sounding should be verified or deleted according to the surveyed depth since there was not enough development to warrant this action. The charted sounding should be verified or deleted according to wire-drag or information from some other source.

Sheet GI-2354(H-8178):

| No. | Latitude | Longitude Sur | rvey Depth | Chart Depth I | os. No. |
|-----|-------------|---------------|---------------|---------------------------|----------------------------------|
| 1 | 44°-05.99' | 690-02.891 | 据 et. | 41 now charte | d from F.E. No.8 (1954) 69R |
| 2 | | | | of 21' as charte | ed! See Ker, par 9 |
| 3 | 44°-05.97° | 68°-58.191° | 48 50° ft. | 48 now charte. _64 ft. | d from pres. survey 11-12P |
| 4 | 44°-09.001° | 68°-59.071° | 42 ft. | 47 ft. | 12-13D |
| 5 | 44°-10.35 | 68°-57.06' No | indication | of 48' as charte | ed? Review, par. 6A.(3) |
| 6 | 440-12.201 | 680-54.491 | 44 45 ft. | 72-78 72-ft. | 127-128L |
| 7 | 44°-12,57 | 68°-58.501° | 15 ft. | 61 ft. | 155-156 M |
| 8 | 44°-13.26' | 68°-58.521 | 27 28 ft. | 24 ft. | from H-3302 W.D. (1911) 144-145M |

Shoaler depths were found at Nos. 3,4,5, and 7. These depths as found should super december charted depths.

The depth as found on No. 8 was not quite as shoal as the chart depth but was close enough to justify the retention of the depth as shown on the chart. (24ff. retained from H-3302 W.D. (1911)

Shoal depths No. 1 was wire-dragged by the Ships HILGARD & WAINWRIGHT in 1954. The drag hung at 44 ft. and cleared at 42 ft. The shoalest depth that the Ship GILBERT obtained was 45 It. which may must not have been the shoalest depth. Wire-drag data should be used at this position. v Chart clearance depth of 41 ft. from F.E. No. 8 (1954)

There was no indication from this survey of the charted depths on Nos. 2 and 5, although some development was run. The charted depths should be retained unless disproved by wire-drag or some other source.

All shoals on all three sheets were found as charted except those listed in this section (Section N).

In no place on these three surveys were any new depths found

O. COAST PILOT INFORMATION

The Coast Pilot information for this area is adequate and no corrections to existing material were obtained. The ship tied up at the Coast Guard wharf in Rockland Harbor, Maine during the survey operations and went to the working grounds daily when weather permitted.

The ship rode out two hurricanes, CAROL and EDNA (1954) alongside the Coast Guard wharf and experienced no damage, since the GILBERT is a steel hulled vessel. Most wooden vessels, experiencing great difficulty alongside the docks from the wind and sea, cast off, and huddled inside the breakwater or steamed back and forth across the harbor.

These hurricanes were exceptions, however, and the harbor is a satisfactory one in most bad weather, although it is a little unprotected from easterly winds.

P. AIDS TO NAVIGATION

| Toating | Alus: | |
|---------|-------|-----------------|
| _ | | GT_2151(H_8176) |

| <u>GI-2</u> | 154(H-8176) | | | | (|
|---------------------------------------|---------------|-------------------------|-----------------|---------|---------|
| Light List Name | Latitude | Longitude | Pos. No. | Date | |
| Metinic Is. Ledge Buoy | 43°-53.721 | 69°-10.17' | 101-102F | 6/21/54 | |
| Marshall Point Lighted Whistle Buoy 1 | 43°-53.871 | 69°-12.60' | 73L | 7/12/54 | survey |
| Mosquito Island Bell Buoy | 43°-54.701 | 69°-13.12' | 5 7 D | 6/17/54 | fu |
| M Crow Island Ledges Buoy "2CI" | 43°-57.35° | 69 °- 06.09 | 149-150R | 9/17/54 | brese |
| Two Bush Ledge Lighted Gong Buoy | 43°-56.75' | 69°-04.91' | 106-107K | 7-9-54 | 40 |
| Rock Buoy 2 | 430-57.221 | 69°-04.871 | 86 – 87G | 6/24/54 | 6/6 |
| Shoal Buoy | 43°-57.01° | 69°-02.01' | 33-34Q | 8/2/54 | applica |
| <u>GI</u> . | -2254(H-8177) | | | | å |
| Shoal Baoy "2A" | 43°-58.591 | 69°-01.501 | 233-234Q | 8/12/54 | to |
| Two Bush Is. Lighted Whistle Buoy TBI | 43°-58.30° | 69°-00.201 | 99N | 8/5/54 | ? |
| Juncken Ledge Buoy | 43°-59.461 | 68 ⁰ -59.531 | 83-84V | 8/23/54 | |

| | • • • | • | | _ | - |
|------------------------------------|-------------|-------------|------------------|-----------|----------------|
| Light List Name | Latitude | Longitude | Pos. No. | Date |) } |
| Twenty-five foot Rock Buoy "lA" | 44°-01.66° | 69°-01.30' | 14-15X | 9-13-54 | present survey |
| South Guide Buoy A | 44°-01.13' | 69°-00.301 | 37D | 6-25-54 | tuas |
| Guide Buoy "2GB" | 44°-00.831 | 68°-58.30' | 54S | 8-17-54 | pre |
| South Guide Lighted Buoy "B" | 44°-03.12' | 69°-00.291 | 41-42D | 6-25-54 | le to |
| Inner Bay Ledges Buoy | 44°-04.79° | 68°-57.71' | 225-226L | 8-3-54 | applicable |
| Old Horse Ledge Bell Buoy "2A" | 43°-59.92' | 68°-49.90° | 298P | 8-9-54 | of ap |
| Saddleback Ledge Gong Buoy | 44°-00.19' | 68°-44.58° | 161-162R | 8-13-54 | ا س |
| | GI-2354(H-8 | 3178) | | | |
| N"2"/(new buoy) | 440-06.191 | 69°-05.68°1 | (see Volum | ne 10 pg. | 57) |
| Robinson Rock Whistle Buoy 8 | 44°-09.001 | 68°-58.91' | 12-13E | 8-24-54 | |
| McIntosh Ledge Buoy "1" | 44°-09.31' | 68°-57.681 | 222-223 M | 9-9-54 | |
| Mpuse Island Reef Buoy | 44°-10.90' | 68°-56.51' | 69 – 70K | 9-2-54 | |
| Ensign Is. Buoy "6" | 44°-14.03' | 68°-58.20' | 23-24R | 9-21-54 | |
| Lincolnville Bell Buoy | 44°-16.69' | 68°-59.781 | 19-20A | 7-29-54 | |
| Grindel Point Bell Buoy "2" | 44°-16.78' | 68°-57.14' | 92-93G | 8-26-54 | |

Q. LANDMARKS FOR CHARTS

Form 567 has been submitted with a recommendation for a white silo and a water tank to be deleted, affecting Charts #310 and #1203.

A new location for Drunkard Ledge Beacon was also submitted on Form 567, affecting Charts #310 and #1203.

R. GEOGRAPHIC NAMES

No investigation of geographic names was made by the hydrographic party.

S. STATISTICS

Sheet GI-2154(H-8176):
2,230 positions, 695.5 statute mi. sounding, 232.7 mi. to and from, 877.6 nautical mi. total.

Sheet GI-2254(H-8177):
4,046 positions 1,125.9 statute mi. sounding,273.8 mi. to and from, 1,314.9 nautical mi. total.

Sheet GI-2354(H-8178): See Processing Office List of statistics 2,670 positions, 799.4 statute mi. sounding, 250.5 mi. to and from,1,055.1 nautical mi. total.

T. TABULATION OF APPLICABLE DATA

A velocity correction report, submitted separately, embodies all data pertinent to 808 type fathometer \$161-SPX used on this project for Sheets GI-2154, 2254, and 2354. That report also covers corrections for fathometer #126S used in Launch #CS-101 on Sheet GI-1154.

Respectfully Submitted,

Dale E. Westbrook ENS., USC&GS Ship GILBERT

Approved and Forwarded:

Robert A. Marshall CDR., USC&GS Commanding Officer Ships STIRNI & GILBERT

FROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LINE Photogrammetry M - 2388 - 12 (BACK) Not used as Hydra suma See " Pore sheet 3 triped ever stadion REMARKS IN METERS FORWARD DATE 20 fry 57 SCALE FACTOR 1256.30 1021.97 1,000 1180.3 723.0 135.2 1235.4 9.1601 379.9 1708.9 1024.47 634.4 1650.3 431.2 452.7 122.1 109.4 49.7 1820.4 238.3 878. 1411.9 642.7 (BACK) 868.2 N.A. 1927 - DATUM IN METERS 695.6 X922.5 8.427 1472.0 440.0 830.0 903.6 1711.3 143.0 7.7821 912.3 306.5 FORWARD 75.5 973.8 Shect 1128.9 201.7 1091.6 97.3 240.2 9.11.6 116.7 687.4 983.7 31.9 DATUM CHECKED BY: $\mathcal{L}^f(JG)$ GMSCALE OF MAP 1:20,000 OR PROJECTION LINE IN METERS SIGNAL NAME DISTANCE FROM GRID IN FEET. GOOSE BATT 0 W L BARN Duck MAN SAM BRICK Rock Neg FORWARD LONGITUDE OR x-COORDINATE DATE 16 AUGUST 1954 - 55.436 41.429 LATITUDE OR W-COORDINATE 44-17-26.890 69-00-31.376 69-02-57.760 44-07-06.533 44-12-04.634 69-02-40.620 44-15-47.691 69-01-13.818 801.01 -50-69 69-04-41.020 44-13-21.758 69-04-10.820 44-12-36,574 68-57-04.380 44-06-14.257 69-04-03.401 44-11-03.780 68-57-49.25 PROJECT NO. Ph - 10 + 44-05-31.55 CS-265 68-58-31.01 44-18-01.02 44-18-31.87 44-09 69-03 7. 1112 9(W) 7. 8024 7-8023 7.8032 DATUM 1261 Ξ = 3 2 = = = * = 7.8021 7.8012 7.11127(W) = 7.8022 T. 11127 (6) SOURCE OF 1934 6-4733 Pg.22 G-619> Pg. 292 Pg.254 Pg. 292 DUCK TRAP CHURCH P4.245 <u>2</u> 6-4733 4-6193 6-6193 Pa .250 6-6793 Pg. 264 6-6793 6-4733 79.2 6-4733 (INDEX) 6-6193 G-4733 Pg. 18 19.19 R.L.M. = INDIAN HEAD IS. P. MAP TGT- 2354 HOCKLAND BREAKW. BRICK STACK, M34 HEHTHOOSE, 1904 SPRUCE HEAD HOUSE FLAGPOLE, (91 CAMOEN WHITE CUPOLA, 191) OWLS HEAD, 1858 SAMOSET ATANK OBSV. 1934 M. BATTIE MEM. GOOSE ISLAND LIGHTHOUSE, NEGRO ISLAND SPIRE, 186 HOTEL 1 FT. -. 3048006 METER ROUND, 1911 WHITE BARN STATION COMPUTED BY.

.

| MAP T. G. T 2354 | 354 | PROJEC | PROJECT NO. P.A 1.0 X | SCALF OF MAP 1:2000 | SCALE FACTOR | j |
|----------------------------|------------------------|--------|---------------------------|---|--|---|
| NCIEVE | SOURCE OF | | LATITUDE OR W-COORDINATE | SIGN'SL NAME | N.A. |) |
| NOTE | INFORMATION (INDEX) | DATUM | LONGITUDE OR x-COORDINATE | OR PROJECTION LINE IN METERS FORWARD (BACK) | CORRECTION FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK) | FROM GRID OF PROJECTION LINE IN METERS FORWARD (RACK) |
| ₩ | 6.4133 | | 44-12-49.070 | PASS | 16 | |
| COMPASS IS, 1911 | P3.19 | 1427 | 68-51-56.630 | | ١., | Tripped over Station |
| A FIDDLERS LEDGE | 6-6193 | | 44-06-05,535 | Fib | - | |
| ~ | Pg.242 | | 68-56-24,052 | | . 0 | |
| | 6.6793 | | 44-05- 44.76 | D 0 G. | 4381.5 HJO.4 | |
| 7 | यभर धी | | 68-55 - 44.01 | | | |
| | 6-6193 | | 44-06- 42.061 | ROW | , | 2 |
| LT. Ho. 1859 | मि.२५३ | : | 68-54-36.065 | | 802.0 532.4 | - |
| | 6-6793 | | 44-15- 30.89 | | 10 | 1 h.868 th 686 |
| CHIM. S.E.E. (134 | PA-244 | | 68-54- 38.00 | DARK | | che. |
| | G-6193 | ! | 44-09-14.306 | PORT | KOIN 9117 | |
| LDGE BY, 1904 | Pg.250 | | 69-03-43.151 | | | |
| | 5-6053 | | 44-18-04.381 | | _ | USED only on viny. Life |
| PENDLETON 1934 | 7,160 | - | 68-53-25.069 | | | cots and |
| | 6-6053 | | 44-15-30.025 | | | Not used as Hydro signed |
| MARK ISLAND, MII | के कि | | 125.44-15-89 | · Second | | |
| | 6-673 | | 766.74-11-44 | | _ | the verse win to "LAS" |
| LASELL ISLAND, 1911 B. 254 | B. 254 | | 68-57-54.00Z | 645 | | |
| | 6-4733 | | 44-10 -18.302 | | | Not used as Hydro Signal |
| MARK, 1904 | P. 18 | | 68-59-03.153 | Mark | - | |
| | 6-6053 | = | 44-17-33.019 | | | Used only on Viny Lite. Sheets for plotting cuts |
| WESTERN IS. 1911 | 79. W.8 | | 68-49-24.773 | | 549.2 781.0 | and f |
| . (| 0-6140 | | 44-13-06.74 | JoB | 208.0 1643.9 | 1643.9 June 2006 |
| ל אלא י מפי | 79.418 | | 68-57- 05.55 | | | 1 |
| COMPUTED BY. | R.L.M. | DAT | DATE 16 AUGUST, 1954 | СНЕСКЕО ВУ | DAI | M. 2388.12 |

| SCALE FACTOR | N.A. 1927 - DATUM | DISTANCE FROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS | (BACK) | 4.5111 S.456 | 697.6 632.4 | 402 1450 Signal cot in by theo. | / shoefs. Fix taken / as check | 1139 713 / Same as above | 1305 26 | 1025.2 826, Spruce HERD HO. E. AG. | POLE, 1911 and | 412 Seginal c | 1224 112 Sheets. Fix token here | 1331.8 S20,1 from A LEADBERTARES | 799.3 x5., 1868 | 344 ISO8 SAME BY MED. | | 1613 Veuts. p | 278 1056 "Belive Br. 45 moved. R.L.a. | 392 460 Same as "MED", No. | 447 / fix taken at signa | 491 1361 4ix taken. | 268 1065 | 760 1092 Some as men" | 7 | 972,0 879.9 / AMBRK IS. 1904. | 10.5 2405 | DATE 3 0 My 5-4 |
|--------------------|-------------------|--|----------------|--------------|-----------------|---------------------------------|-----------------------------------|--------------------------|-------------|------------------------------------|----------------|---------------|---------------------------------|----------------------------------|-----------------|-----------------------|-------|---------------|---------------------------------------|----------------------------|--------------------------|---------------------|----------|-----------------------|-------|-------------------------------|-----------|-----------------|
| 00000 | | DATUM CORRECTION | - | 7 | | > | (5/8.5) | (356.51 \ 569,5 √ | (13.0) | , | 537.2 | <u> </u> | _ | | _ | X | / | | (528.0) | > | > | / | (535,5) | , | _> | _ | 545.2/10 | 5 |
| SCALE OF MAP | SIGNAL NAME | DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS | FORWARD (BACK) | SPire | , | TREE /"A" | > | USE /'A" | > | POLE /"A" | > : | MGD /"B" | | / EAT / "B" | , | How / "B" | | RUN. / "B" | | TAN / "B" | | PAR / "A" | , | " A" / 223 | | RES / "A" | | СНЕСКЕD ВҮ |
| SC/ | S | | - | | | \ | | 7 | | / | | 1 | | 7 | | | | | | / | | 7 | | | | | | 429 |
| PROJECT NO. Ph-104 | | LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE | | 44-17-23.797 | 494-18 -45-89 | hi-hh | 20-69 | 44-15 | 69-00 | 44-18 | 18-89 | 44-03 | 68-55 | 44-04 | 108-54 | 44-05 | 68-54 | 90-44 | 68-57 | 44-06 | 68-56 | 44-10 | 75-89 | コーナナ | 68-53 | 44-15 | 68-51 | +50-60 |
| PROJE | | DATUM | | | 1927 | | | | | | | | | | | | | | | | | | | | | | | P |
| ۶۶ | | SOURCE OF | (INDEX) | _ | Pg.231 | | | | | | | | | | | | | | | | | | | | | | | R.L.M. |
| MAP T. 62.2354 | - | STATION | | SPIRE 1862 | ISLESBORD S.CH. | χ 0 | TREE | > Q | USE | × 0 | Pore | 7 4 5 | ر م ا | A 400 | ב | × | HOM | XXXXXX | DRONKARUN Fdar. Bo. | × , , , , | 200 | X | 7 H K | × , , , , , | ೯೧೪ | × 220 | ار ا | COMPUTED BY: |

| MAP T.67-2354 | 54 | PROJEC | PROJECT NO Ph = 10 9 | SCALE OF MAP / 2 6 0 0 | 0000 | SCALE | E FACTOR | JR . |
|--------------------------------------|-------------------------------------|--------|--|---|---|---|---|---|
| STATION | SOURCE OF INFORMATION (INDEX) | DATUM | LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE | SIGNAL NAN EDISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK) | DATUM | N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN WETERS FORWARD (BACK) | - DATUM NCE FOSECTION LINE FERS (BACK) | FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK) |
| O Barr | | | 44-16 | BARR /"A" | (624.0) (54.0) | 07 | 1805 | Possition established by thread cuts, platted on vinylite sheets. Fix |
| o TOP X | | | 144-17 | TOP /"A" | (4845) (0.17.) | 883 883 89 | 345 | |
| o KEY ^X | | | 44-14 | / KEY ('A" | (250.5) (35.5 V (4.8.5) 5.47.5 | 700 1.200 1.200 1.200 | 1887 | Same as above |
| O LAS X | | | 17-47 | / LBS \ 'A" | (199.8) 726.1 (64.1) 602.1 | 2.7571 | 399.6 | from A Mark Is. 1911 Computed GP plotted. |
| O MARK | | | 44-10 | MBRK /"B"" | | 560.0 | 1291.9 | from A MARK, 1904 Computed G. P. Photted. |
| 回 1943大 | | 1927 | 44-04 | MON 7-111-7 | (231.0) 695.0 (25.0) 642.5 | 1390 | 462 | G.P. from Form 524 (Air photo phot) |
| The GRAVES 4T. | 11953 | • | 70-69 | L07 | (67.0) 855.6 (570.0) 92.5 | 9171 | 7 461 | Same es above |
| | | 1 | 44-17 | Jack 7-8021 | (4.56.0) | 7 29 7 | 1555 | Sane as above |
| EVEN, 1946 | | 1 | 44-16 | EVEN 7-8021 | (6,4.0) 3,2.0 (5,24.0) 141.5 | 62 to 10 to | > 8221 | 1 8 ve / |
| SRINDEL PT. LT. | | 1 | 14-16 | GRIN. 7-8021 | (10.0) 816.0 (256.5) 409.0 | 1632 818 | 220 | as ab |
| 四 WHITE SILO, 1943 | | • | 41-14 | 51LD T-11127 (N) | (627.0) 799.0 (338.5) 327.5 | | 254 | Same as above |
| E HITE CHIMNEY | | - | 11-HH. | CHim 7-8021 | (78.5) 847.5 (296.0) 329.0 | 1695 | 157 | Sami as abore |
| 1 FT.=.3048006 METER TO COMPUTED BY. | F1.0. | DAI | DATE 16 AUGUST, 1954 | СНЕСКЕD ВУ. <i>U. Е. Б.</i> | 2 | DA' | DATE 30 A | M·2388-12 |

| MAP T. 61-235-4 | | PROJEC | CJ - 2 6 5 PROJECT NO. 24 - 10 4 | SCALE OF MAP 1:2 6,000 | 0000 | SCA | SCALE FACTOR | l L |
|--|-----------|---|--|--|-------------------|--------------------------------|---------------------------------------|--|
| | | | | SIGNAL NAME | | 741 A N | MUTAG-7-61 | REMARKS |
| STATION | SOURCE OF | DATUM | LATITUDE OR y COORDINATE | DISTANCE FROM GRID IN FEET. | DATUM | DISTANCE FROM GRID OR PROJE | DISTANCE FROM GRID OR PROJECTION LINE | FACTOR DISTANCE FROM GRID OR PROJECTION LINE |
| | (INDEX) | | LONGITUDE OR X-COORDINATE | ON PROJECTION LINE IN METERS FORWARD (BACK) | CORRECTION | IN ME | ETERS (BACK) | IN METERS FORWARD (BACK) |
| | > | | 41-27 | SLIP | (, 70,0) 756.0 | 1512 | 340 | G.P. from Form Sty |
| FERRY HOVIE AUL | | 1927 | 69-06 | 7-8012 | (4/5.5) 2.50.0 | 500 | 833 | photo pho- |
| 口 | | : | 44-15 | ACRE | (0.026) | 12 | 9481 | Sama as above |
| GABLE, 1946 | | • | 68-57 | 7-8021 | (24.5) | 1182 | 641 | |
| THE BARN 1946 | و ⁄ | : | 45416 | GRAV | 60.20% | 949 | 1212 | И |
| NORTH CUPOLA | | | 94-00 | 7-8012 | (80.5) 585.0 | i | / 191 3 | |
| X | | | 44-17 | RED | (1,7,0) 809.0 | 1618 | 7 452 | |
| CHIMNEY, 1946 | | | 68-55 | "7-8021" | 5.6// | 1601 | 7 652 | |
| ¥ | | = | 44-16 | diti / | (7.0.5) | H | 1451 | ,1 |
| GABLE, 1946 | | | 68 - 5-4 | 7-8021 | (373.0) 292.5 | 585 | 146 / | |
| × | | • | \$ 0 - T | MHO | (569.0) | 714 | 7 8811 | 11 |
| GRBLE, 1946 | | | 68-55 | 7-8023 | 431.51 |) L H | 863 | |
| | | ======================================= | 44-08 | WEST | (5.52) (2.528) | 1713 | 139 | l d |
| GABLE, 1946 | | | 68-54 | 7.8023 | (z 53.0) 414.0 | 828 | 50 6 V | |
| × | | | 44 - 09 | GAB | (532.5) 393.5 | 181 | 1065 | 13 |
| 9 H 13 L E , 17 4 6 | | | 68-53 | 7-8023 | (512.0) | 309 | / h201 | |
| 7 | | : | 44-10 | √ 0AK | (137.0) | 1578 | > 412 | 1. |
| CHIMINEY 1446 | | | 68-50 | 7-8032 | (85.5) 581.0 | 1162 | 111 1 | |
| A GRBY HO. 1942 | | 1 | ۲۵-۲۲ | V PET | (51161) | 6941 | 3₽3 √ | 11 |
| ARGE | | | 68-56 | 7-8023 | (694.0) | 126 | 1208 | |
| > • | | `` | 44-03 | GREEN / 'B" | (56.5) | 1739 | 113 | 11 |
| GREEN | | | 68-55 | | (505,5) | 325 | > 1 101 | |
| Sub Pr. | | | L1 - 17 | <i>></i> - | > | 1.7201 | 8.428 | used only for phot on vinyhite sheet, for fix |
| WESTERN IS,1911 | | | 68-49 | | • | 510.0 | 820.2 | at BARR' G.P. computed |
| COMPUTED BY. T. L.M. | Ä. | DA | DATE 16 A 49 574 | CHECKED BY: 156. | 9 | Q | DATE 30 | M.2388-12 |
| - The second | | | THE RESERVE THE PROPERTY OF TH | The second secon | • | - | | 1 |

MAT Ahors 0-

Additional Tope. stations

- 7-11129(W)

T-11128(N)

PROCESSING OFFICE LIST OF SIGNALS H-8178

TRIANGULATION STATIONS.

ROCK ROCKLAND BREAKWATER L.H., 1902-43 SHAG ROCK BEACON, 1934-43 CAMDEN, WHITE BRICK STACK, 1934-43 SHAG RICK MOUNT BATTIE MEMORIAL OBSERVATORY, 1934-43 BAT JAMESON POINT, SAMOSET HOTEL WATERTANK, 1934-43 SAM OWLS HEAD L.H., 1858-1943 DARK HARBOR HOTEL CHY., S.E. END, 1934-43 OWL DARK NEG NEGRO ISLAND L.H., 1904-43 GOOSE ISLAND, 1911-43 GOOSE INDIAN HEAD L.H., 1902-43
FIDDLERS LEDGE, SYONE BEACON, 1859-1943 MAN FID COMPASS ISLAND, 1911-43 **PASS** DUCK TRAP CHURCH SPIRE, 1861-1946 DUCK ROUND (PAVILION NEAR SPRUCE HEAD), 1911-46 VIL JOB JOB. 1944 THE GRAVES LIGHT, 1953 LOT

TOPOGRAPHIC STATIONS

SOURCE PH-104, SHEET "A"

Barr Egg Key Las Par Pole Res Top Tree Use

SOURCE PH-104, SHEET "B"

Eat Green How Mark Med Run Tan

DESCRIBED TOPOGRAPHIC STATIONS

| Acre | Gable, 1946 | T-8021 |
|------|------------------------------------|----------|
| Chim | White Chimney, 1946 | T-8021 |
| Even | Even, 1946 | T-8021 |
| Free | Church Spire, 1943 | T-11129N |
| Gab | Gable (W. White House), 1946 | T-8023 |
| Gray | North Cup. Gray Barn, 1946 | T-8012 |
| Grin | Grindel Pt. Light, 1946 | T-8021 |
| Hip | Gable (Hip Roofed House), 1946 | T-8021 |
| Hit | Chy. On White House, 1943 | T-11129N |
| Jack | Jack, 1946 | T-8021 |
| Mon | Monroe Island Light, 1943 | T-11129N |
| Oak | Chimney (W. Gable), 1946 | T-8032 |
| Ohm | Gable (South Yellow Cottage), 1946 | T-8023 |
| Pet | Largest Chy. (Gray House), 1946 | T-8023 |
| Red | Chimney (Center Of House), 1946 | T-8021 |
| Silo | White Silo, 1943 | T-11127N |
| Slip | N. Gable Ferry House, 1946 | T-8012 |
| West | Gable, West White Boat House, 1946 | T-8023 |

PLANIMETRIC FEATURES

Bap T-11129N

HYDROGRAPHIC STATIONS

Liz Vol. 1, pg. 2

Wat Vol. 1, pg. 3

STATISTICS To Accompany

H-8178

| VOI | L. NO. | DAY LTR. | DATE | NO. LL SDGS | NO. POS. | STAT. MI. SDGS. |
|-----|------------------|----------|---------|-------------|-----------|-----------------|
| | 1 | A | 7-29-54 | 0 | 71- | 25.8 |
| | 1 | В | 8- 6-54 | 0 | 75 | 23.2 |
| 1 | & 2 | C | 8-11-54 | 0 | 175 | 6 9.7 |
| | 2 | D | 8-16-54 | 0 | 82 | 25.8 |
| 3 | & 4 | E | 8-24-54 | 0 | 256 | 81.7 |
| 4 | & 5 | F | 8-25-54 | 0 | 217 | 73.1 |
| 5 | & 6 | G | 8-26-54 | 0 | 238 | 68 .5 |
| | 6 | H | 8-27-54 | 0 | 212 | 66 .1 |
| | 7 | J | 9- 1-54 | . 9 | 128 | 34.8 |
| 7 | & 8 | K | 9- 2-54 | 0 | 197 | 67.6 |
| | 8 | L | 9- 8-54 | 0 | 144 | 37. 3 |
| - 8 | & 9 | ¥ | 9- 9-54 | 0 | 237 | 77.0 |
| | 9 | n | 9-14-54 | 8 | 8 | - |
| 9 | & 1 0 | P | 9-15-54 | 6 | 243 | 65.0 |
| | 10 | Q | 9-20-54 | 0 | 44 | 8.1 |
| 10 | å 11 | R | 9-21-54 | 12 | 79 | 15.7 |
| | 11 | S | 9-23-54 | 4 | 179 | 51.3 |
| 11 | & 12 · | T | 9-27-54 | 0 | 49 | 13.2 |
| | 12 | U | 9-29-54 | 0 | 26 | 4.1 |
| | | | | | | |
| | | TOTALS | | 39 | 2660 | 799.0 |

ADDENDUM To Accompany

HYDROGRAPHIC SURVEY H-8178 (Field No. Gi-2354)

GENERAL

This appears to be an excellent basic survey with only minor discrepancies occurring during the smooth plot. Spundings agree very well at crossings with the exception of a discrepancy at Lat. 44-13.0, Long. 68-54.75, where positions 192 to 194E cross 20 to 21L. Also, see crossing at 186 to 187E in the same vicinity. (Discrepancies resolved, - crossings now in adequate agreement)

SOUNDINGS

Soundings in volumes 1 thru 5 were reduced and converted in the conventional manner. Those in the remaining 62 volumes were reduced and converted with a template. It required 87.5 man hours to reduce and convert soundings in 5 volumes using the old method, and only 48 man hours to reduce and convert soundings in $6\frac{1}{2}$ volumes when using a template (noted in Review, par. 7d.)

Soundings between positions 68 and 700 were not penciled. See note in volume 2, rage Z. (Portion of line rejected; no control; locality adequately covered otherwise)

Soundings between positions 116 and 140L ane being submitted on an overlay in order to avoid congestion on the smooth sheet. (Sdgs. applied to smooth sheet) overlay attached to DR.

Fathometer speed corrections were applied to soundings between positions 189 and 204M, to bring them into agreement at crossings and with surrounding hydrography.

The poor quality of the fathometer returns on K day resulted in a great \vee many missed and questionable soundings.

Cartographer.

Norfolk, Va. 9 January 1956

NOTE: This Office was unable to find any records or reference to wire drag work accomplished in the approaches to Rockland Harbor and shown on boat sheet for this survey. One of the Field Officers connected with the work suggests that the work may have been recorded in a ******* volume covering special projects already forwarded to the Washington Office.

F. E. #2 & 8 (1954) W.D.

FORM 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. Apr. 1950

TIDE NOTE FOR HYDROGRAPHIC SHEET

DIVISION SIXODESIAK SUKWEWEX

14 February 1956

Division of Charts:

R. H. Carstens

Plane of reference approved in 12 volumes of sounding records for

HYDROGRAPHIC SHEET

8178

Locality

Penobscot Bay, Maine

39.9 ft. below B.M. 10 (1931)

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

Condition of records satisfactory except as noted below:

Branch Chief, Division of Tides and Europe 13.

| | GEOGRAPHIC NAMES Survey No. #-\$178 | | | No or | of Land of Land | de do trois | Dr. Oct I Made | Carde | Mad Hotely | N.S. Jaker | * |
|---|-------------------------------------|-------|-----------|--------|-----------------|-------------|---------------------|------------|------------|------------|-------------|
| | Name on Survey | Or AC |) Or B | Ko. Or | J. W. 41 | E E | or lock | , o. G | Rond In | \s. \K | |
| | Maine | | | (+(+ | (e) | | | | | BEN | 1 |
| | West Penobscot & | ay | | (- |) | | | | | | 2 |
| | Rockland | | , | (L. | \ | | 1 | | | | 3 |
| | Spruce Head | V | | LD | de s | tati |) N/ | | | | 5 |
| | Long Island | V | | | | | | | | | 6 |
| | Resolution IN | and | / | | | | | | | Ber | 7 |
| | Lasell Islam | 7 1 | | / | | | Ÿ. | | | | 8 |
| | North Havent Stand-in Poin | LSIGN | <u>-</u> | | | | | | | | 9 10 |
| | 31 3113-111 10 04 | | | | | | | | | | 11 |
| | | | | | Na | mes | a | pro v | pa | | 12 |
| : | | | | | 1-31 | -56 | <u>ل</u> . الم | eck | | | 13 |
| | | | | FF. | خططز | tions | -1 no | mes | ٩٧٦ | | 14 |
| | | · · · | | 10 A | 2 | PV | . 63 , 1 | rse tol | ~~y | | 15 16 |
| | | | | Cha | 7-27 | 10. | | | | | 17 |
| | | | | | | • | | | * | | 18 |
| • | | | | | | | | | | | 19 |
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| | | | | | | | • | | | | 23 |
| • | | | | | | | | | | | 24 |
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| | | ~ . | | | | | | | | | 26 |
| ₩ rate of the control of the contro | | | | | | | | -3 | | | 27 M 234 |

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO.

| | | · · · · · · · · · · · · · · · · · · · |
|---|---------------|---------------------------------------|
| Records accompanying survey: | | |
| Boat sheets . A; sounding vols 12; | wire dra | ag vols; |
| bomb vols; graphic recorder rolls | 5-Envelo | pes |
| special reports, etc. 1-Descriptive report, 1 | -Smooth | heet, |
| 1-Velesity corrections, and 1-Overlay tracing. | • • • • • • • | ••••• |
| The following statistics will be submitted we rapher's report on the sheet: | ith the | cartog- |
| Number of positions on sheet | Pre)im. | 2660 |
| Number of positions checked | complete | |
| Number of positions revised | | 2 |
| Number of soundings revised (refers to depth only) | | 65 |
| Number of soundings erroneously spaced | | 12 |
| Number of signals erroneously plotted or transferred | | ••••• |
| Topographic details | Time | ynes |
| Junctions | Time | <u> </u> |
| Verification of soundings from graphic record | Time | - 2 Ars 16 hrs |
| Prelim. Verif, D. R. Engle | 144 | 8-13-56 |
| Verification by Jage Q. John Total time | 260 | Date Feb. 3-57 |
| Reviewed by J.A. Dinsmore Time | 60 | Dete/0 Sept. 1956 |
| Addendum by Farme B. Pewers Time | 55 | Date 8-10-65 |

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. All buoys not plotted during prelim. verif.
- 11. The boat sheet was compared with the smooth sheet.

- 12. The spacing of soundings as recorded in the records was of closely followed.
- 13. The bottom characteristics were shown on outstanding shoals.

 No. Characteristics not ovailable on some 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. Inspected only
- 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).

 Topo from T-8012, 9020, 1221, 8022, 8023, 8024 + 8032(1946)
- 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:

944.13' + Disaprement in constance c+ P days with E day. Verifici

1 168' 54' + was smalle to find any reason for disaprement except that
bottom trace on E day was gather weak introducing possibility that the soft
bottom did not register on fathegram. Comming the to be the case, c+ P day

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: This sheet was given preliming neighbor. Hill be completed in Norfalls. See attached overlay concurring and overland IF-6F Vol # Laine and and and and and overland Perce Parties Verit. It Engle 8-12-56

Verified by flo. a. Nozemozak

Date 2-3-57

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8178

FIELD NO. GI-2354

Maine, West Penobscot Bay, Stand-in Point to Long Island

Project No. CS-265

Surveyed - May - Oct. 1954

Scale 1:20.000

Soundings:

Control:

808 Fathometer

Sextant fixes on shore signals

Chief of Party - H. O. Fortin

Surveyed by - H. O. Fortin, D. E. Westbrook and R. T. Koopman

Protracted by - A. K. Schugeld

Soundings plotted by - A. K. Schugeld

Preliminary Verification by - D. R. Engle

Verified and inked by - GA. Kozemezak

Reviewed by - T. A. Dinsmore 10 Sept. 1956

Inspected by - R. H. Carstens

1. Shoreline and Signals

This is an offshore survey. The shoreline outlined on the smooth sheet originates with reviewed air-photographic surveys T-8012, T-8020, T-8021, T-8022, T-8024, and T-8032 of 1941-46. Also T-11127 and T-11129 T-8023

The source of the signals is given in the Descriptive Report.

2. Sounding Line Crossings

Considering the irregularities in the bottom, depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves are adequately delineated on this offshore survey.

The bottom for the most part is irregular as characteristic of a glaciated area. Numerous submerged knolls and ridges contribute to the bottom irregularities. No unusual submarine features are apparent.

4. Junctions with Contemporary Surveys

The present survey junctions adequately with H-8177 (1954) on the extreme south and with H-7830 (1950) and H-7832 (1950) on the west. The transfer of junctional soundings is deferred pending the complete verification of the present survey.

There are no other contemporary surveys registered in the area at this time. However, charted hydrography is in harmony with the depths at the limits of the present survey.

5. Comparison with Prior Surveys

a. H-982 (1868) 1:10,000 H-1086 (1869) 1:20,000 H-1143 (1871-02) 1:20,000

These prior surveys, taken together, cover the area of the present survey. A comparison of the prior and present depths indicates that no changes in bottom have taken place. Differences in depths occurring in some instances are attributed to the irregularities in the bottom. The old sounding lines which are widely spaced fail to show many of the shoaler indications revealed by the closer development attained on the present survey. Although the delineation of bottom features is more complete on the present survey, several prior soundings have been carried forward to supplement present depths. Numerous bottom characteristics were also retained from the prior surveys.

The present survey, with the indicated additions, is adequate to supersede the prior surveys within the common area.

b. H-2969 W.D. (1908) 1:20,000 H-3195 W.D. (1910-11) 1:20,000 H-3302 W.D. (1911) 1:20,000

These wire-drag surveys cover the area of the present survey. No conflicts are noted between the effective drag depths and depths on the present survey. Several soundings, most of which represent lesser depths than obtained on the present survey, have been retained from these wire-drag surveys. Bottom characteristics were also carried forward to the present survey.

c. F. E. No. 2 (1954) W.D. F. E. No. 8 (1954) W.D.

Field examination No. 2 (1954) covers a portion of the detached hydrography located within Rockland Harbor on the present survey. No conflicts are noted between the effective drag depths and the present survey depths. The drag work of the field examination, however, does not cover the 21-ft. sounding carried forward to H-7831 (1950) and the present survey in lat. 44°06.44', long. 69°05.16',

from H-2969a. W.D. (1908). The present development is not considered adequate to disprove the prior 21-ft. sounding which should be retained on the chart.

Field examination No. 8 (1954) covers the 43-ft. shoal located in lat. 44°05.98', long. 69°02.89', on the present survey. The clearance depth of 41 ft. presently charted from the drag work of the field examination should be retained on the charts.

d. H-7831 (1950)

The detached investigations referred to in the preceding paragraphs also fall within the limits of this prior survey. No important differences are noted in the prior and present depths. The 43-ft. shoal depth obtained in lat. 44°05.98', long. 69°02.89', has been carried forward to H-7831 to supplement information on that survey.

6. Comparison with Chart 310 (Latest print date 9/5/55)

A. Hydrography

Charted hydrography originates principally with the prior surveys which need no further consideration. The present survey has been partially applied to the chart through blueprint 52220 which is a copy of the boat sheet.

Specific information is furnished on the following charted items:

- (1) The 15-ft. sounding charted in lat. 44°06.05', long. 68°57.68', is erroneous and should be replaced by the 22-ft. sounding previously charted from H-3195 W.D. (1911). Originating with a copy of the boat sheet (Bp. 52220) of the present survey, the charted sounding was misread as 2.6 fms. which reduced to 15 ft.
- (2) The 48-ft. sounding charted in lat. 44°10.36', long. 68°57.05', represents the depth over a wreck which originally was located on H-3195 W.D. (1910-11). The Corps of Engineers reported (in C. L. 349, 1911) that the masts of the vessel were removed in August 1911 giving about 50 ft. of water over the wreck at M.L.W. It is recommended that the 48-ft sounding be retained as charted.

Numerous shoal soundings appearing on the present survey are not yet charted. The more important of these are listed in the following comparison:

| De | pt | hs |
|----|----|----|
| | | |

| Latitude | Longi tude | Survey | Chart |
|-----------|------------|--------|---------|
| 44°10.4' | 68°53.68' | 33 | 35 |
| 44°12.2' | 68°54.49' | 44 | 72 - 78 |
| 44°12.62' | 68°58.5' | 46 | 61 |
| 44°14.72' | 68°59.2' | 62 | 72 |
| 44°16.8' | 68°51.6' | 75 | 114 |

The present survey supersedes the charted hydrography except as previously noted.

B. Aids to Navigation

The aids to navigation located on the present survey are in substantial agreement with the charted aids and adequately mark the features intended.

7. Condition of Survey

- a. The sounding records are complete; the Descriptive Report covers all matters of importance.
- b. The preliminary verification of the smooth sheet indicates that the smooth plotting was generally accurate.
- c. The poor quality of the fathometer returns on K day necessitated the rejection of portions of sounding lines on that day. This resulted in several small "holidays" such as occur in lat. 44°10.0', long. 68°56.6' and lat. 44°08.7', long. 68°56.4'.
- d. It is noted in the Processing Office Addendum that a template was used for reducing about 60% of the soundings directly from the fathograms. The template method provided both the conversion of fathoms to feet and a mechanical application of the usual reducers. This method resulted in a time savings of approximately 50% as compared with the conventional method of reducing soundings.

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work

With the retention of several soundings from the prior surveys, the present survey is considered basic for the area covered and no additional hydrography is recommended. Numerous undeveloped shoal indications would require further

investigation had not wire-drag surveys been previously accomplished in this area. The 21-ft. sounding retained in lat. 44°06.44', long. 69°05.16', from H-2969a (1908) W.D. was recommended for further examination by wire drag in the review of H-7831 (1950). The records of H-2969a notes that a supporting sounding of 25 feet was obtained on a rock in substantially the same position as the 21. The hydrographer of H-2969a further noted that the 21 was possibly obtained on top of a post or mooring pile. Further investigation of the 21 by wire drag is again recommended.

Examined and Approved:

H. R. Edmonston

Chief, Nautical Chart Branch

Chief, Hydrography Branch

Charles A. Schanck Chief, Chart Division

Samuel B. Grenell

Chief, Division of Coastal Surveys

ADDENDUM TO REVIEW

H-8178 (1954)

Verification and Inking by-----G. A. Kozemczak Review Addendum by-----F. B. Powers 8/10/65 Inspected by-----R. H. Carstens

The verification of this survey has been completed. Soundings, depth curves and junctions have been completely inked.

Junctions with Contemporary Surveys

Adequate junctions were completed with H-7830 (1950) on the west and H-7832 (1960) on the southwest.

Comparison with Chart 310 (latest print date 3-22-65)
Chart 311 (latest print date 4-5-65)

The charted hydrography originates with the present survey after preliminary verification and Review. Only the following differences are noted:

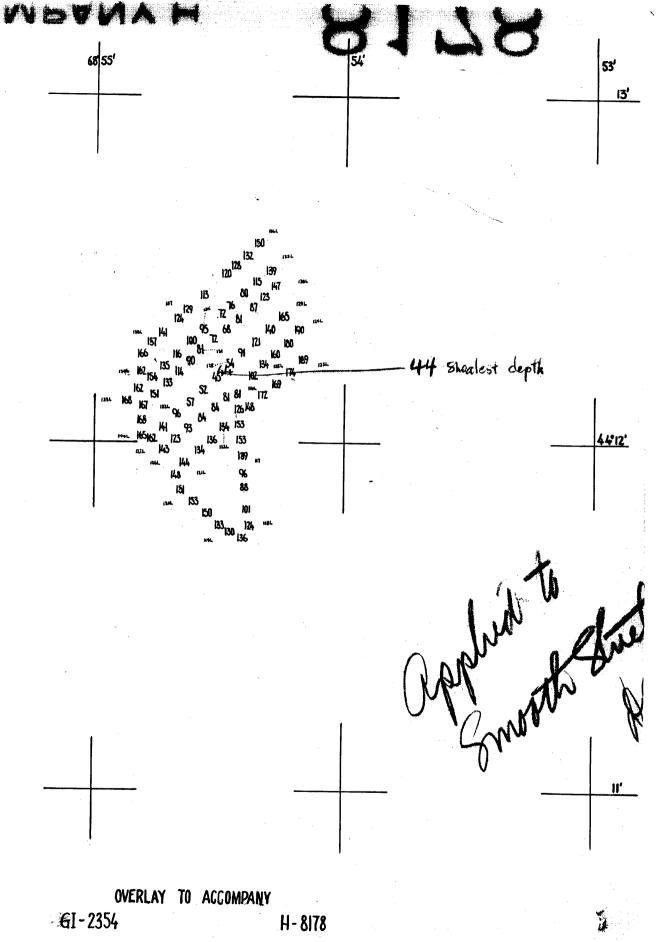
- 1. Charted depth of 82 in lat. 44°05.72', long. 68°58.3' where present survey depth is 92.
- 2. Present depth of 127 not charted in lat. 44°17.75', long. 68°57.4'.
- 3. Present depth of 110 not charted in lat. 44°17.3', long. 68°52.82'.

Condition of Survey

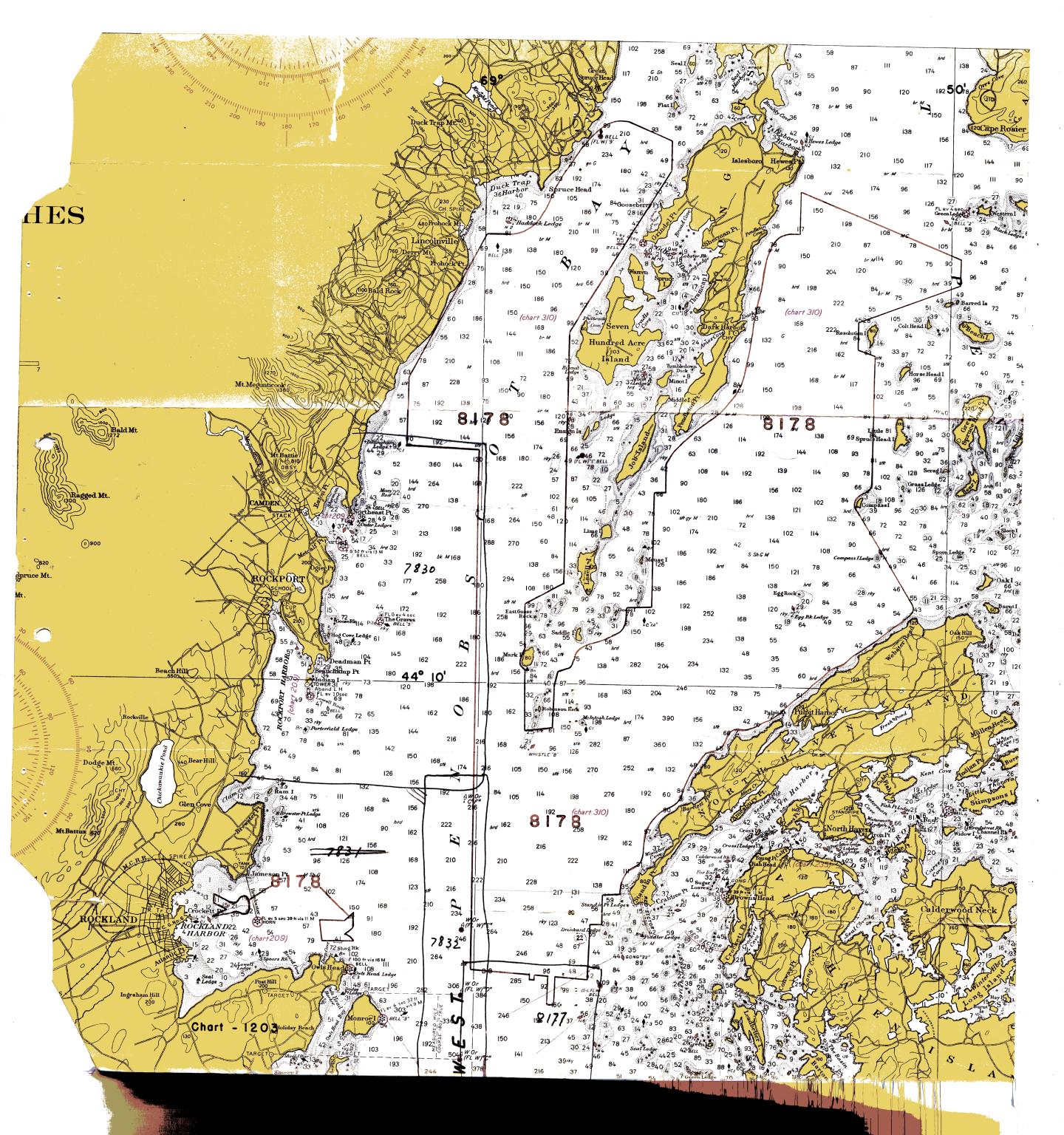
- (a) Completion of verification and inking reveals that the smooth plotting was well done.
- (b) The Descriptive Report is complete and comprehensive.

Approved:

Chief, Nautical Chart Division



tion 161 to HOL Vol-8 9/8/5



NAUTICAL CHARTS BRANCH

SURVEY NO. H-8178

Record of Application to Charts Preliminary Wer & Rev 9-10-5

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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.

M-2168-1