U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: Planimetric Air Photographic (Shoreline and Interior)
Field No.: 272
Office No.: T-8007

LOCALITY
State: Maine
General locality: West Penobscot Bay
Locality: Sprucehead Island - Two Bush Island
Whitehead Island - Andrews Island

1944
CHIEF OF PARTY
F.L. Peaceck

DATE: April 25, 1949
CONTENTS

Descriptive Report T-8007

(A combination of original T-8007 and a portion of T-8006 as an insert.)

1. Descriptive Report for T-8007
2. List of Temporary & Recoverable stations
3. Descriptive Report for T-8006
4. History of the Radial Plot and Compilation of Survey No. T-8006
   Compilation Report
5. Preliminary Compilation Report of Little Green Island and Large Green Island (T-8006)
6. Computations for F.I.P. "TIL"
7. Position of "LIT", 1944
8. Correspondence: 826-RGR
   To Commanding Officer ship LYDONIA
   To Commander F. L. Peacock, Baltimore Off.
DATA RECORD

T-8007

Quadrangle (II): Tenants Harbor (15'), Maine (U.S.G.S.)

Field Office:
Air Photographic Party No. 2

Compilation Office:
Baltimore Photogrammetric Office

Instructions dated (II III):
April 1, 1942
April 20, 1943

Completed survey received in office: 16 June, 1944

Reported to Nautical Chart Section:

Reviewed: 5 Oct, 1945

Applied to chart No.: 313 (Request Date): 225

Redrafting Completed: 28 Jan, 1946

Registered: May, 1948

Compilation Scale: 1:9700

Scale Factor (III): 1.0309

Geographic Datum (III): N.A. 1927
Reference Station (III): False Whitehead, 1859, 1934, R.1943
Lat.: 43° 59' 53.128'' (1641.5m) Long.: 69° 06' 44.745'' (997.0m) Adjusted

Datum Plane (III): Mean Sea Level

State Plane Coordinates (VI): MAINE, EAST ZONE

X = 338,849.69' Y = 60,657.26'

Military Grid Zone (VI)

Project No. (II): 272
Sub Project 272 C

Chief of Party: H. O. Fortin

Chief of Party: Fred. L. Peacock

Division of
Copy filed in Descriptive
Report No. T-313

Photogrammetry Office Files.
PHOTOGRAPHS (III)
(metal mounted)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>7297</td>
<td>10/22/41</td>
<td>9:30 A.M.</td>
<td>1:10,000</td>
<td>8.3' above M.L.W.</td>
</tr>
<tr>
<td>7322</td>
<td>10/22/41</td>
<td>12:00 Noon</td>
<td>1:10,000</td>
<td>11.6' above M.L.W.</td>
</tr>
<tr>
<td>7334</td>
<td>10/22/41</td>
<td>12:00 Noon</td>
<td>1:10,000</td>
<td>11.6' above M.L.W.</td>
</tr>
</tbody>
</table>

Predicted Tide Tables, Atlantic Ocean.
Tide from (III): Portland, Me., with corrections to Dyer Point

Mean Range: 9.6'  
Spring Range: 10.9'

Camera: (Kind or source) U. S. Coast & Geodetic Survey nine lens camera (focal length 8½") All negatives are on file in the Washington Office.

Field Inspection by: H. O. Fortin  
Date: Season of 1943

Season's field inspection report previously submitted.

Field Edit by: None  
Date: 

Date of Mean High-Water Line Location (III): August – September, 1943

Projection and Grids ruled by (III) J.T.B. – P.J.H.  
Date: 10/29/43

" " " checked by: B.R.C.  
Date: 11/1/43

Overlay checked by: R.M.B.  
Date: 11/2/43

Control plotted by: Donald M. Brant  
Date: 12/4/43

Control checked by: A. L. Goncharsky  
Date: 12/10 – 12/11/43

Radial Plot by: W. E. Schmidt  
Date: Jan. 1944

Detailed by: Mary R. Moore (shoreline-interior) rough draft  
Date: 1/28/44 to 2/21/44

Reviewed in compilation office by: Harry R. Rudolph  
Date: (5/16/44 to 6/10/44)

Elevations on Field Edit Sheet checked by:  
Date: 6/8/44 – 6/10/44
STATISTICS (III)

Land Area (Sq. Statute Miles): \[ 1\frac{3}{4} + \frac{1}{2} = 2.0^{*} \]

Shoreline (More than 200 meters to opposite shore): 15 Statute miles + 2 = 17

Shoreline (Less than 200 meters to opposite shore), measured along centerline: 1\(\frac{3}{4}\) Statute miles + 0 = 1\(\frac{7}{4}\)

Number of Recoverable Topographic Stations established: 5 + 2 = 7

Number of Temporary Hydrographic Stations located by radial plot: 118 + 14 = 132

Leveling (to control contours) - miles:

Roman numbers indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks: * Totals include area in insert consisting of the Green Island group. The area in the insert was formerly part of T-8006 but is now part of this survey: T-8007.
26 CONTROL:

The available horizontal control appearing on the Map Drawing consists of 6 U.S. Coast and Geodetic Survey Triangulation Stations, which have been shown thereon with the conventional triangulation symbol. One of the stations was identified by a Field Inspection Point, which was shown on the Map Drawing with a small black acid ink square. The positions of all the stations fall within the detail limits of the Map Drawing. Their names are as follows:

- False Whitehead, 1859, 1934, r.1943 (F.I.P. "False")
- Large House, North Chimney, 1859, (partial recovery) in 1943
- Rackley's Island, 1858, r.1943
- Two Bush Island Lighthouse, 1902, 1934, r.1943
- Whitehead Lighthouse, 1859, 1934, r.1943
- Yellow Ridge Spindle, 1934, r.1943

*Station shown with a dashed triangle. Used to control the plot, but should be considered lost, because the chimney which was the object originally sighted upon as the station, has been destroyed.

27 RADIAL PLOT:

An individual radial plot was laid for the area of the Survey. No templates were used, the photographs being oriented directly under the projection sheet.

The results obtained from the plot were satisfactory, and the facts have been fully brought out in the appendix of the descriptive report for the area of Map Drawing, Survey No. T-8002, previously submitted.

28 DETAILING:

The area of the Map Drawing has been compiled in accordance with the written instructions. The features appearing thereon have been detailed from metal mounted nine lens photographs, which were See Project Reports: "Notes for Hydrographic Portage φ6°30' N, E 1933, F.L. Beach, Chief Party, "

"Report of Field Inspection of Photographs from φ6°30', N, E 1933, F.L. Beach, Chief Party, "
supplemented by the field inspection data. Symbolization is in accordance with the conventional topographic symbols.

The main bodies of water shown on the Map Drawing are portions of West Penobscot Bay, Muscle Ridge Channel, and Two Bush Channel. The main land areas shown are, all of Hewell, Graffam, and Pleasant Islands, and portions of Andrews, Sprucehead, and Whitehead Islands. In addition to these several other smaller islands have been shown.

The field inspection data, distribution of the photographs, and the photographic coverage were adequate, unless otherwise mentioned in the subsequent paragraphs.

The scales of the photographs and the Map Drawing were in good agreement. It was necessary, however, to detail the area of Two Bush Island, Two Bush Ledges, and Stallion Ledge by use of the vertical projector.

Radially plotted positions of points considered very strong, relative to the horizontal control, have been shown on the glossy side of the Map Drawing with small blue ink circles, while the radially plotted positions of points considered weak, but yet believed to be within the limits of satisfactory accuracy, were shown with small green ink circles.

All notes pertaining to the area of the Survey have been lettered on the Map Drawing, except the descriptions of the temporary hydrographic stations, and the recoverable topographic stations, and notes pertaining to the character limits, and heights of the bluffs bordering the Mean High-Water Line. Descriptions of the temporary hydrographic stations and the recoverable topographic stations, are to be discussed under side heading No. 35 in this report. An overlay sheet has been submitted upon which the bluff data has been shown and lettered.

30 **MEAN HIGH-WATER LINE:**

The Mean High-Water Line (firm ground) has been
shown on the Map Drawing with a full heavy-weight black acid ink line, the center of which is to be considered the true position. There are no bordering marsh areas along the main shores of the islands.

Situated within the area of Andrews Island there is a small pond which empties into a large cove on the west side of the island. The Mean High-Water Line (firm ground) of the pond has been shown as stated above, while the outer limits of small marsh areas bordering the Mean High-Water Line have been shown with a full light-weight black acid ink line, in conjunction with the conventional marsh symbol. This light-weight line is only an indication of the outer limits of low wet land visible on the photographs, and therefore cannot be accepted as the Mean High-Water Line, unless verified by future Field Parties.

LOW-WATER AND SHOAL LINES:

Of the three photographs used in the compilation of the Map Drawing, two were taken at a stage of tide 2.0 ft. above Mean High-Water, while the remaining one was taken at 1.3 ft. below Mean High-Water. The position of the Mean Low-Water Line could neither be determined by stereoscopy nor from the field inspection data. The outer limits, therefore, of rock ledge and sand areas, etc., bordering the Mean High-Water Line, as shown on the Map Drawing with the conventional symbols, are not the position of the Mean Low-Water Line, but only the outer limits of part of the fore-shore visible on the photographs taken at the stages of tide previously mentioned.

For the most part, the character of that part of the fore-shore as shown on the Map Drawing, was determined by this Compilation Office. Along many sections of the Mean High-Water Line there were very pronounced dark areas visible on the photographs. A visual comparison of these dark areas with the corresponding charted areas was made, and it is believed
31 LOW-WATER AND SHOAL LINES: (Continued)

that the dark areas are reflections cast by rock ledge submerged at the stage of tide of the photographs. The outer limits of such areas, portions of which are probably covered at Mean Low-Water, have been shown on the Map Drawing with the conventional rock ledge symbol.

The outer approximate limits of reef areas bordering the Mean High-Water Line, have been detailed in accordance with the field inspection data, and shown on the Map Drawing with a dashed black acid ink line accompanied by the note "Reef" lettered within the included area. Tide curves were constructed and the extent to which the reef areas bared at Mean Low-Water or Mean High-Water was determined from the field inspection data (if furnished), and lettered on the Map Drawing.

The outer approximate limits of shoal areas bordering the Mean High-Water Line have been detailed in accordance with the field inspection data, and shown on the Map Drawing with a dashed light-weight black acid ink line accompanied by the note "shoal" lettered within the included area.

For the most part, the division between the above-mentioned reef and shoal areas could not be shown because the Field Inspection Party failed to furnish the necessary data.

32 DETAILS OFFSHORE FROM THE MEAN HIGH-WATER LINE:

The details offshore from the Mean High-Water Line consist of fish traps, rocks and reef areas, all of which have been detailed in accordance with the field inspection data, and shown on the Map Drawing with the conventional symbols accompanied by pertinent notes.

The extent to which the reef areas, and rocks bare at Mean Low-Water or Mean High-Water, as lettered on the Map Drawing, is in accordance with the field inspection data:
33 WHARVES AND SHORE LINE STRUCTURES:

All piers, ruins of piers, wharves, retaining walls, ruins of catwalks, marine railways, etc., have been detailed in accordance with the field inspection data, and shown on the Map Drawing with the conventional symbols accompanied by descriptive notes.

34 LANDMARKS, FIXED AIDS TO NAVIGATION, AND AERONAUTICAL AIDS:

The Field Inspection Sub-Party verified the existence of all the previously charted landmarks and fixed aids to navigation within the area of the Map Drawing. They are as follows:

YELLOW RIDGE SPINDLE (position established by triangulation in 1934)
TWO-BUSH ISLAND LIGHOUSE (position established by triangulation in 1902, 1934)
WHITEHEAD LIGHTHOUSE (position established by triangulation in 1859, 1934)

Since the positions of the above-mentioned features were determined by triangulation by the Bureau, Form 567 has not been submitted. Their plotted geographic positions have been shown on the Map Drawing with the conventional triangulation symbol.

No new landmarks, new fixed aids to navigation, or aeronautical aids were recommended for the area of the Map Drawing by the Field Inspection Sub-Party.

35 HYDROGRAPHIC CONTROL:

The positions of 5 recoverable topographic stations, and 118 temporary hydrographic stations have been established by the radial plot, and shown on the matte side of the Map Drawing with 2½ mm. black acid ink circles. The relatively strong positions of the stations have been shown on the glossy side of the Map Drawing with small blue ink circles, while the relatively weak positions have been shown with small green ink circles.

The numbers of the temporary hydrographic stations,
and the numbers and names of the recoverable topographic stations accompanied by the note "Recoverable Topographic Station", have been lettered on the Map Drawing. The numbers and descriptions of the temporary hydrographic stations, and the numbers, names and descriptions of the recoverable topographic stations have been compiled in a list which is submitted herein. Two additional copies of the list have been submitted.

Form 524 has been submitted for the following 5 recoverable topographic stations:

- No. 2405 E. Gable, Gray House in Bight
- No. 2431 S. Gable, Small Shack
- No. 2447 E. Gable, Yellow House
- No. 2463 N. Gable, House on Pier
- No. 2585 Chimney, Center of Gray House

36 LANDING FIELDS:

There are no landing fields within the area of the Map Drawing.

37 JUNCTIONS:

Junction of shore line and interior detail with Map Drawing, Survey No. T-8008, to the north, has been made and is in excellent agreement.

Since the arc of parallel at Latitude 43° 56' 15.0", which is the southern detail limit of Map Drawing, Survey No. T-8007, passes through an all water area, no junction with Map Drawing, Survey No. T-8006, which is to the south, was necessary except for a cable crossing area, the junction of which is in excellent agreement.

Junction of shore line and interior detail with Map Drawing, Survey No. T-8002, to the west, has been made and is in excellent agreement.

The Atlantic Ocean is to the east of Map Drawing, Survey No. T-8007, and therefore, no contemporary survey is involved.
38 RECOMMENDATIONS FOR FUTURE SURVEYS:

The compilation of the area of the Map Drawing is complete in all details of importance, in so far as the data furnished this Compilation Office is concerned, and it is believed that no other topographic surveys, except for contouring are necessary.

The relative positions of well defined points of detail and those of less well defined points of detail, as shown on the Map Drawing, are believed to be within the limits of satisfactory accuracy.

39 GEOGRAPHIC NAMES:

No geographic name investigation was made for the area of Map Drawing, Survey No. T-3007, by the Field Inspection Sub-Party.

The geographic names shown thereon have been taken from the best known sources available for use by this Compilation Office, alphabetically compiled in a list, and submitted herein. None of the names was disputed.

In addition to the above an alphabetical list of geographic names has been compiled and submitted herein, which pertains to features within the area of the Survey, but which has not been shown on the Map Drawing because of insufficient data.

40 CABLE CROSSING AREAS:

A cable crossing area, which was traced from Chart No. 312 after enlargement by use of the vertical projector, has been shown on the glossy side of the Map Drawing with dashed red acid ink lines, accompanied by pertinent notes.

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES: (Continued)

Due to the large difference in scale between the Map Drawing and the above-mentioned quadrangle, small planimetric details could not be readily compared. By visual comparison, however, the following differences were apparent:

* The Mean High-Water Line at the southern tip of Andrews Island extends farther south as shown on the Map Drawing than it appears on the quadrangle.

* The northern portion of Hewell Island is now separated from the southern portion. No separation appears on the quadrangle.

* In general, the shore line shown on the Map Drawing is in disagreement with the shore line appearing on the quadrangle.

* Halibut Rock which appears on the quadrangle, has not been shown on the Map Drawing. The image of the rock was not visible on any of the photographs, and no field inspection data were furnished for its identification.

   Many small rocky islets have been shown on the Map Drawing in the vicinity of Two Bush Reef. They do not appear on the quadrangle.

   Two small rocky islets N. E. of Two Bush Island proper, as shown on the Map Drawing, do not appear on the quadrangle.

   Between Mink Island and Flag Island a small rocky islet has been shown on the Map Drawing. It does not appear on the quadrangle.

   The number and positions of buildings shown on the Map Drawing are in disagreement with those appearing on the quadrangle.

* These differences also apply to Chart No. 312.
45 COMPARISON WITH NAUTICAL CHARTS:

Chart No. 312, published at Washington, D. C.,
July 1929, corrected to March 23, 1943, Scale 1:40,000.

Due to large scale difference between the Map
Drawing and the above-mentioned chart, small planimetrical details could not be readily compared. By
visual comparison, however, the following differences
were apparent:

Many small rocky islets which uncover at
Mean High-Water have been shown on the
Map Drawing in the area of Two Bush Reef,
while only rocks awash and rock ledge appear
on the chart.

Two small rocky islets N. E. of Two Bush
Island proper, as shown on the Map Draw-
ing, do not appear on the chart. In this
particular area, rock ledge appears on the
chart.

Between Mink Island and Flag Island a
small rocky islet has been shown on the
Map Drawing. The islet does not appear
on the chart. Rocks awash appear on the
chart in this area.

In general, most of the rocks awash appear-
ing on the chart have not been shown on the
Map Drawing. The images of most of the
rocks were not visible on any of the photo-
graphs, and no field inspection data were
submitted for their identification.

All differences discussed under side heading No.
44 that are marked by an asterisk, also apply to the
above-mentioned chart.
Respectfully submitted:
June 10, 1944

Mary R. Moore
Photogrammetric Aid

Compilation and Descriptive
Report Reviewed by:

Harry R. Rudolph
Sr. Photogrammetric Aid

Supervised by:

Walter E. Schmidt
Asst. Photogrammetric Engineer

Approved and Forwarded:
June 16, 1944

Fred. L. Peacock
Chief, Air-Photographic Party No. 2
GEOGRAPHIC NAMES

(not shown on the Map Drawing)

The geographic names listed below have not been shown on the Map Drawing. They pertain to features which are within the area of the Survey, but which have not been shown on the Map Drawing because their images were not visible on any of the photographs, and because no field inspection data were submitted for their identification.

Burnt Island Ledge
Crow Island Ledge
False Halibut Ledge
Halibut Rock
Lower Gangway Ledge
South Breaker
GEOGRAPHIC NAMES

Undisputed

- Andrews Island
- Bar Island
- Burnt Island
- Clam Ledges
- Crow Island
- Flag Island
- Graffam Island
- Hewell Island
- Hewell Island Rocks
- Home Harbor
- Hurricane Island
- Mink Island
- Muscle Ridge Islands
- Muscle Ridge Channel
- Green Island Seal Ledges
- Herring Ledge
- Little Green Island
- Large Green Island
- Nettle Island
- Pleasant Island
- Seal Island
- Sprucehead Island
- Stallion Ledge
- Two Bush Channel
- Two Bush Island
- Two Bush Reef
- West Penobscot Bay
- Whitehead Island
- *Yellow Ledge (near Home Harbor)
- *Yellow Ledge (E. of Whitehead I)
- Yellow Ridge Island
- Little Two Bush Island (adj. just west of Two Bush I)
- Nash Point (adj. S. end of Andrews I)

*These names pertain to features shown on the Map Drawing in two separate areas.

Names preceded by * are approved. 8/21/46

L. Heck

GEOGRAPHIC NAMES
Accuracy of Identification Report  
Classification of Horizontal Control  
for the area of Map Drawing  
Survey No. T-8007

- WHITEHEAD LIGHTHOUSE, 1859—recovered—pricking positive  
- RACKLEY'S ISLAND, 1858—not identified—pricking positive  
- LARGE HOUSE, N. CHIMNEY, 1859—not identified—pricking doubtful  
- FALSE WHITEHEAD, 1859—recovered—pricking positive-F.I.P.  
  "False" pricking positive  
- TWO BUSH ISLAND LIGHTHOUSE, 1902—recovered—pricking positive  
- YELLOW RIDGE SPINDLE, 1934—recovered—pricking positive  
- CROCKET'S (CAPT.), HOUSE, N.E. CHY., 1859—lost for triangulation purposes.

Henry O. Fortin  
Lieut. Comdr. U.S. Coast and  
Geodetic Survey.
COAST OF MAINE

PROJECT NO. C S - 272

SUB-PROJECT NO. C S - 272 C

List of the numbers and descriptions of the temporary hydrographic stations, and the numbers, names and descriptions of the recoverable topographic stations for the area of Map Drawing Survey No. T-8007. The positions of all the stations have been determined by radial intersection, and shown on the matte side of the Map Drawing with 2½ mm. black acid ink circles, accompanied by the numbers assigned to each by the Field Inspection Sub-Party.

118 Temporary Hydrographic Stations
5 Recoverable Topographic Stations
123 Total

Listed by Mary R. Moore 6/9/44
Copy Checked by Harry R. Rudolph 6/9/44
2398  Top center northernmost of two ledges on reef. It is dome-shaped.
2399  5' rock 80 meters off N.W. end of a triangular shaped island
2400  Top of black ledge off southwest end of island. There is another higher ledge to the northwest.
2401  Peak of black offshore ledge. The peak is on south end.
2402  West white cupola of a little red brick house with green roof. It is on southwest side of Two Bush Island.
2403  Top of northeast end of an offshore flat ledge off the southwest end of Graffam Island
2404  Top center of flat white ledge with two crevices in middle. It is south and a little higher than two whale-back ledges side by side. The south end looks like layers of pancakes.
2405  "E. Gab. Gray House in Bight". The station is the E. gable of a gray colored house located near head of bight, and just south of another house. The house has a large dormer window on N. side, and has a red chimney. Recoverable Topographic Station.
2406  6' brown boulder north of gravel beach and a lone spruce leaning toward east.
2407  4' white rock in grass on south side of Hurricane Island. It is flat and round.
2408  Top center of whale-back offshore ledge northwest of round 5' boulder. It is between two other ledges.
2409  Top center of white capped knob of ledge on point east of wooden pier.
2410  8' white boulder southwest of a 5' white boulder in small bight.
2411  Southwest tip of whale-back ledge north of small sand beach. It is east of pole framework.
2412  Top of offshore rounding ledge 40 meters northeast of break in tree line on northeast side of island.
2413  3' boulder on south end of offshore ledge.
2414  Top center of northernmost high water rock of group north of Mink Island.
2415  Top center of 7' brown boulder south of Bar Island. The south end of boulder is split off. There is a pointed rock 3 meters northeast of it.
2416  East end of long projecting offshore ledge on east side of Bar Island.
2417 Top center of offshore ledge 100 meters off the southeast end of Graffam Island.
2418 Tip of ledge point at H.W.L. south of gravel beach.
2419 Knob on end of ledge south of small bight on east side of Graffam Island.
2420 South portion of huge rounding ledge east of gravel beach.
2421 Top center of white ledge plateau on point east of.
2422 Top center of peaked offshore ledge on west side of head of cove on Graffam Island.
2423 Top center of offshore dome-shaped ledge. It is N. E. of another.
2424 Top center of dome-shaped ledge, 1 meter north of another. It is on the north side of the southwest tip.
2425 Southwest hump of saddle-shaped rock east of rocky bight.
2426 Top center of ledge 5 meters south of tuft of grass on ledge point on east side of island. S.S. is E. of narrow N-S bight in ledge.
2427 Top center of rounding ledge northwest of huge ledge and pebble beach. Another pebble beach is southwest of it. Just south if it is brown ledge at same height. It has seaweed nearly to the top.
2428 Top of dome-shaped white ledge south of huge crack. It is 3 meters south of group of spruces on point.
2429 Pointed offshore 10' long boulder on east side of island.
2430 North end of offshore whale-back ledge in bight.
2431 "S. Gab. Small Shack." The station is the S. gable of a tar papered shack located in the narrow neck of land just before entering the lower half of Pleasant Island. Recoverable topographic Station.
2432 Top center of white ledge point with green moss on north side east of sand beach.
2433 Round 3' boulder 30 meters south of scrawly spruce and east of crack in long white N-S ledge.
2434 6' round boulder on flat ledge.
2435 Top center of dark brown ledge. It is on north end of a hook of ledges.
2436 Vertex of V in high part of ledge point.
2437 Top center of northeast end of ledge island.
2438 Light gray 6' boulder on gravel beach on east side of Two Bush Island.
2439 10' black peaked rock in center of long reef.
2440 Top center of knob on north side of reef ½ kilometer east of Pleasant Island.
2441 Highest whale-back ledge on southwest section of offshore ledge.
2442 Highest part of offshore saddle-shaped ledge.
2443 Top of north end of 25' long ledge on southwest end of Pleasant Island. There is a large 6' crevice north of S.S.
2444 Top center of southerly of two whale-back offshore rocks 100 meters southwest of gravel beach.
2445 5' cone-shaped white rock at west end of gravel beach. It is on south side of grass point.
2446 Center of grass patch on long offshore ledge.
2447 "E. Gab. Yellow House." The station is the east gable of a yellow house, which is north of another yellow house and northwest of an unpainted house near grass line. Topo
2448 Southwest corner of wooden pier north of sand beach.
2449 Round 2' gray rock on west side of point in bight on north end of island.
2450 Top center of whale-back offshore ledge 1 meter and 10 meters south of two.
2451 20' spruce on north end of gravel beach in bight.
2452 3' square faced rock on sloping ledge. There is a group of small rocks under northeast end of rock.
2453 Top of sloping brown offshore ledge.
2454 Highest part of two offshore ledges. These are opposite a point.
2455 Peak of two offshore ledges 1 meter southeast of grass patch.
2456 Southwest tip of grass on point 10 meters southwest of a knoll.
2457 Chimney on southwest end of house which is north of a sand beach.
2458 Center of grass patch on southeast side of a knob of ledge on point.
2459 Top center of whale-back ledge point. It has small tufts of grass on it.
2460 Top center of long whale-back ledge point. A fish trap is just south of it.
2461 Top center of rounding offshore ledge. A peaked ledge is 10 meters northeast of it.
2462 6' gray boulder northwest of sand beach and west of gravel beach.
2463 "N. Gab. House on Pier." The station is the N. gable of house on pier at mouth of lobster pond. There is a Texaco sign on N. end of pier. Removable topographic station.
2464 25' spruce on point west of lobster pound.
2465 5' spruce at grass line 40 meters south of 10' spruce.
2466 20' spruce on point northeast of water tank.
2467 25' spruce on west end of sand and gravel beach. It is 3 meters back of grass line.
2468 Lone 25' spruce on sloping white ledge on rounding point.
2469 2' bushy spruce on west side of bight.
2470 Top center of southeast section of offshore ledge. The ledge is 10 meters southwest of a sloping offshore ledge.
2471 White 4' rock south of large bushy spruce and N. E. of a bight.
2472 Middle hump of three (highest) on offshore ledge. It is off north end of Hewell Island.
2473 Top of offshore ledge 200 meters east of a ledge with a N-S line of grass on it. The S.S. is south of crevice.
2474 Top of whale-back ledge with N-S. line of grass on east side.
2475 Center of 8' sloping boulder southeast of huge whale-back ledges on north end of small island with house.
2477 Top of white knob of ledge south of gravel beach. It has tufts of grass on north side and guano on top. This is Clam Ledges.
2506 40' bushy spruce on point in sand and gravel cove on southwest side of Hewell Island.
2507 Top center of offshore peaked brown ledge on point.
2508 Top of west end of offshore whale-back ledge. The east side has some green discoloring.
2509-A 4' rock on north side of head of cove west of grass.
2509 10' blue spruce (most easterly of a group on point of bight.)
2510 Top of knob on north end of ledge east of sand beach at head of cove.
2511 Ring bolt on side of 15' broken part of ledge on east side of cove.
2512 Center of long protruding ledge on point. S.S. is 1 meter north of E-W crack and south of a diagonal crack.
2513 Highest part of southwest section of offshore ledge.
2514 Top center of offshore peaked ledge with green discoloring on east side.
2515 Top center of whale-back ledge northeast of point. It is southeast of another ledge.
2516 South gable of gray two story house on north side of lobster pound. It has two chimneys.
2517 North end of rock wall on east side of lobster pound.
2518 Top center of dome-shaped ledge on rounding point.
2519 Top center of 8' boulder 50 meters east of gravel beach in cove.
2520 Top center of ledge just south of a crevice 1 meter wide.
2521 Top of knob on west side of ledge island. It is 4 meters north of flat round 3' rock on ledge.
2522 8' bushy spruce on point west of bay on south end of Andrews Island.
2523 5' loose rock at west end of sand beach in bay.
2524 South tip of white ledge at H.W.L. It is in bay.
2525 3' gray boulder on south side of entrance to shallow basin.
2526 4' rock at south end of light green vegetation on east side of bay.
2527 Top of highest ledge on reef point.
2528 Southermost 10' spruce along grass line.
2529 Bare ledge on top of high bluff. It is about 1 meter long and 3 meters northwest of a few 1' rocks on another bare ledge.
2546 2' rock cairn on south half of Yellow Ridge Island. (The island is divided by a crevice.)
2585 "Chimney, Center of Gray House." The station is the chimney in center of gray house, yellow trim. Recoverable Topographic Station.
2587 Top center of offshore ledge in cove southwest of sand beach. It is W. section of ledge.
2588 West tip of grass on quarry stone point.
2598 Top of whale-back ledge on northeast end of a group of ledges. It is north of Seal Island.
2600 3' loose white rock on top of white ledge.
2601 Top center of dome-shaped white ledge south of crevice and on east side of island.
2608 6' boulder north of two bights.
2646 Most southwesterly of two 35' spruces in bight.
2647 5' lone spruce south of retaining wall and 1 meter from grass line.
2648 Easterly of two spruces southeast of a telephone pole. They are next to a bight.
2649 Southeast corner of stone pier. North of Burnt Island.
2650 Top center of highest rock south of channel between Spruce Head and Burnt Island. S.S. is half way between the two islands.
2651 Top center of whale-back ledge with 4 E-W cracks. It is 15 meters from tree line on point.
2652 Top center of 7' boulder 3 meters N. W. of a black boulder and 5 meters west of a 10' boulder. It is on point and 20 meters from brush.
2653 7' spruce on brush line on E. side of Burnt Island. It is north of a crevice and another such tree is north of it.
2654 Top of long ledge northeast of another pointed ledge pointing toward north. S.S. is just south of E-W crack in ledge.
2655 Top center of 10' boulder painted white and 1884 painted in black on S. side.
2656 Cupola of red three story house with green base white trim. It is on point and cupola is conical-shaped.
DATA RECORD
MAP DRAWING SURVEY

Quadrangle (II): Tenants Harbor (151)-U.S.G.S.  Project No. (II): C.S. 272
Part of Sub-Project No.C.S.272 C

Field Office:  Chief of Party: Fred. L. Peacock
Air Photographic Party No. 2

Compilation Office:  Chief of Party: Fred. L. Peacock
Baltimore Photogrammetric Office

Instructions dated (II III);  Copy filed in Descriptive

Completed survey received in office;

Reported to Nautical Chart Section;

Reviewed;  Applied to chart No.  Date:

Redrafting Completed;

Registered;

Compilation Scale: 1:9700

Scale Factor (III): 1.0309

Geographic Datum (III): N. A. 1927  Datum Plane (III): Mean Sea Level

Reference Station (III): GREEN ISLAND, 1859, 1934, r.1943

Lat.: 43° 54' 10.99" 339.2m  Long.: 69° 00' 30.12" 672.2m  Adjusted
Unadjusted
(Field Computation)

State Plane Coordinates (VI);

X =  Y =

Military Grid Zone (VI)
## PHOTOSHOP (III)
*(Metal Mounted)*

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>7298-7299</td>
<td>10/22/41</td>
<td>9:15 A.M.</td>
<td>1:10,000</td>
<td>7.6' above M.L.W.</td>
</tr>
<tr>
<td>7294-7296</td>
<td>10/22/41</td>
<td>9:15 A.M.</td>
<td>1:10,000</td>
<td>7.6' above M.L.W.</td>
</tr>
</tbody>
</table>

**Tide from (III):** Predicted tables, Atlantic Ocean, 1941; Reference station Portland, Maine, with corrections to sub-station Monheagan Island

**Mean Range:** 9.3'  
**Spring Range:** 10.6'

**Camera:** (Kind or source) United States Coast & Geodetic Survey nine lens camera (focal length 8½"). All negatives are on file in the Washington Office.

**Field Inspection by:** Lieut. Comdr. Henry C. Fortin  
**Date:** August 1943  
**Season's Field Inspection Report previously submitted**

**Field Edit by:** Lieut. Dale E. Sturmer  
**Date:** May 23, 1944

**Date of Mean High-Water Line Location (III):** August 21, 1943

---

 Projection and Grids ruled by (III) J.T.B. - P.J.H.  
**Date:** 10/29/43

" " " checked by: B.R.C. (Washington Office)  
**Date:** 11/1/43

Overlap checked by: R.M.B. (Washington Office)  
**Date:** 11/2/43

Control plotted by: Donald M. Brant  
**Date:** 12/4/43

Control checked by: A. L. Goncharsky  
**Date:** 12/11/43

Radial Plot by: Michael G. Misulia (Reference C)  
**Date:** 4/5-6/44

Detailed by: Michael G. Misulia (Reference C)  
**Date:** 4/8/44

Traced from Preliminary Compilation (Reference C)  
by: Ruth M. Whitson (shoreline and interior)  
**Date:** 6/24-27/44

Reviewed in compilation office by: W. E. Schmidt  
**Date:** 6/28/44

Elevations on Field Edit Sheet checked by:  
**Date:**
STATISTICS (III)

Land Area (Sq. Statute Miles): One

Shoreline (More than 200 meters to opposite shore): 6\(\frac{1}{2}\) statute miles

Shoreline (Less than 200 meters to opposite shore): none

Number of Recoverable Topographic Stations established: 82

Number of Temporary Hydrographic Stations located by radial plot: 30

Leveling (to control contours) - miles:

Roman numerals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:

"The position of one of these LIT, 1944, has been computed from 'theodolite directions'. The position of the other has been determined by the radial plot."
History of the Radial Plot and Compilation of Survey No. T-8006

Reference A

Descriptive Report covering the preliminary compilation of Metinic Island and vicinity, Coast of Maine, Project No. C.S. 272, and with special reference to the Chief of Party's introductory paragraph, submitted on April 11, 1944.

Reference B

Washington Office review of the preliminary compilation mentioned in Reference A.

Reference C

Descriptive Report covering the preliminary compilation of Little Green Island and Large Green Island, Coast of Maine, Project No. C.S. 272, submitted on April 14, 1944; with reference to the Director's instructions contained in letters No. 326 OCR dated March 4, 1944, and April 17, 1944. A copy of the report, in which copies of the letters of April 17, 1944 have been included, is attached hereto.

Reference D


Since the 1943 Field Inspection Sub-Party did not furnish adequate field identified horizontal control for the compilations of Little Green Island, Large Green Island, and the Metinic Island Group; and since local hydrographic control was needed by an operating hydrographic party before the 1944 Field Inspection Sub-party could establish the necessary additional
control for the compilation of Survey No. T-8006, preliminary compilations (References A and C) were made in accordance with instructions contained in the Director's letter 826 RCR dated March 4, 1944.

Upon examination of the preliminary compilation of Metinic Island and vicinity, at the Washington Office, there was some skepticism (Reference B) concerning the accuracy obtainable with the material and data available at the Baltimore Compilation Office. The recommendations made by the Washington Office (Reference B) pertaining to the positions of two additional temporary hydrographic stations and changes in the positions of three temporary hydrographic stations were considered and accepted by the Baltimore Office. The data was transferred to the preliminary compilation of Metinic Island and vicinity. Temporary hydrographic stations Nos. 2127, 2130, 2145 (W) and 2146 (W), fall within the detail limits of Map Drawing, Survey No. T-8006, while station No. 2139 falls within the detail limits of Map Drawing, Survey No. T-8003, previously submitted.

The notation (W) accompanying the number of a temporary hydrographic station in this report or on the Map Drawing, indicates that the station was selected and its position determined by the Washington Office.

No report on the review by the Washington Office for the preliminary compilation of Little Green Island and Large Green Island has been received by the Baltimore Office.

On May 31, 1944, the Baltimore Compilation Office received from its Field Inspection Sub-Party the necessary additional horizontal control to perfect the scale and orientation of the preliminary compilations of Metinic Island and vicinity (Reference B), and of Little Green Island and Large Green Island. The additional control for the Green Island group consisted of Recoverable Topographic Station LIT, 1944, located by rounds of theodolite directions and identified on the photographs by F.L.F. "Til", which was located by
Computations for station Lit, 1944 have been submitted to Geodesy.

The position of station "Til" was radially plotted on the preliminary compilation. The geographic position of the station was computed by the Baltimore Office and plotted on the Map Drawing for Survey No. T-8006, the computation data being submitted herein.

The computational data for Recoverable Topographic Stations HGC, 1944, and MET, 1944, (Reference D) have been submitted with the Descriptive Report for Survey No. T-8005, now a part of T-8004.

The eastern portion of Metinic Island appearing on the Map Drawing for Survey No. T-8006 has been traced from the preliminary compilation of Metinic Island and vicinity (Reference D). The details of Little Green Island and Large Green Island appearing on the Map Drawing, were traced thereon from the preliminary compilation of that area, after the radially plotted positions of F.I.P. "Green" (Reference C) and F.I.P. "Til" were made to coincide with their respective plotted geographic positions on the Map Drawing, by means of the vertical projector.

Island

The detail of Green/Seal Ledges, which has been shown within the extended eastern detail limits of Map Drawing, Survey No. T-8006 with the conventional symbol, was traced from the preliminary compilation of Little Green Island and Large Green Island by the following method.

An arbitrary point was selected on the preliminary compilation near the detail of Green/Seal Ledges. It has been shown on the glossy side of the celluloid (Preliminary Compilation) with a small red ink circle accompanied by the notes "Point A" and "Not to be used by the hydrographic party." The position of this point was then graphically transferred to the Map Drawing from the line F.I.P. "Green"-F.I.P. "Til", and was also shown on the glossy side of the celluloid (Map Drawing) with a small red ink circle, accompanied by the same notes mentioned above. Point "A" and the radially plotted position of F.I.P. "Green" appearing on the preliminary compilation were then made to coincide with their respective positions appearing on the Map Drawing, by means of the vertical projector. The detail of Green Island
Seal Ledges was then traced thereon. The position of such detail is approximate and should be used with caution by the hydrographic party.

The Triangulation Station GREEN ISLAND, WESTERN-MOST BUILDING, 1913, (Reference C), has been destroyed. Its geographic position has been deleted from the Map Drawing. This decision was based on the three following facts:

1 - After the radially plotted positions of F.I.P. "Green" and F.I.P "Til" were made to coincide with their respective plotted geographic positions by means of the vertical projector, it was found that the radially plotted position of the Triangulation Station (Reference C), appearing on the preliminary compilation, did not coincide with its plotted geographic position on the Map Drawing.

2 - The plotted geographic position of the Triangulation Station appearing on the Map Drawing, fell in an area void of buildings.

3 - The recovery of the station was reported doubtful by the 1943 Field Inspection Sub-Party.

The radially plotted position of the chimney which was believed to be the station (Reference C), has been transferred from the preliminary compilation onto the Map Drawing and shown with a 2½ mm. black ink circle, accompanied by the note "Chimney, Westernmost Building". It probably can be used as a temporary hydrographic station.

Examination showed the preliminary compilation of Metinic Island and vicinity to be on a scale of 1:9,688. The difference of the approximate central meridian shown thereon and the true meridian is about 21'. Examination showed the preliminary compilation of Little Green Island and Large Green Island to be on a scale of 1:9,740. The difference of the approximate central meridian shown thereon and the true meridian is about 21'.
A detailed descriptive report for the compilation of Survey No. T-8006 follows.

Respectfully submitted:
June 26, 1944

Walter E. Schmidt
Asst. Photogrammetric Engineer
CONTROL:

The horizontal control appearing on the Map Drawing for Survey No. T-8006 has been established by the Bureau, and consists of six stations, which are as follows:

GREEN ISLAND, 1859, 1934, r.1943 (F.I.P. "Green")
LITTLE GREEN ISLAND, 1913, no recovery in 1943
Recoverable Topographic Station LIT, 1944 (F.I.P. "Til")
Recoverable Topographic Station HOG, 1944 (Fellon T-8004)
METINIC, 1858, 1934, r.1943 (Fellon T-8004)
*METINIC ID. HOUSE CHIMNEY, 1910, partial recovery in 1943

The latter three stations fall just outside the detail limits of the Map Drawing.

*Station shown with a dashed triangle. See the descriptive report for the compilation of Survey No. T-8003 and the History Report for the Radial Plot and Compilation of Survey No. T-8006. See § 35(p.11) for additional control.

RADIAL PLOT:

(See References A, B, C, and D)

DETAILING:

(See References A, C, and D, and the History Report for the Radial Plot and Compilation of Survey No. T-8006)

The detail for the southwest portion of the Map Drawing was traced from the preliminary compilation of Metinic Island and vicinity, while the detail for the eastern portion was traced from the preliminary compilation of Little Green Island and Large Green Island.

MEAN HIGH-WATER LINE:

(See References A and C)
31 **LOW-WATER AND SHOAL LINES:**

(See References A and C)

No part of the Mean Low-Water Line could be detailed with confidence, either by the field inspection data or by examination of the photographs.

The outer limits of rock ledge areas bordering the Mean High-Water Line, as shown on the Map Drawing with the conventional symbol, are not the position of the Mean Low-Water Line. Portions of these rock ledge areas are probably covered when the stage of tide is at Mean Low-Water.

32 **DETAILS OFFSHORE FROM THE MEAN HIGH-WATER LINE:**

(See References A, C, and the History Report for the radial plot and compilation of Survey No. T-8006)

The features known as Southern Triangles, Northern Triangles, Aldon Rock, and Green Point Shoal, have not been shown on the Map Drawing because no field inspection data were furnished for their identification, and because their images were not visible on any of the photographs.

33 **WHARVES AND SHORE LINE STRUCTURES:**

There are no wharves or shore line structures within the area of the Survey.

34 **LANDMARKS, FIXED AIDS TO NAVIGATION, AND AERONAUTICAL AIDS:**

There are no charted landmarks or fixed aids to navigation within the area of the Survey.

No new landmarks, new fixed aids to navigation, or aeronautical aids, were recommended by the Field Inspection Sub-Party.
35 HYDROGRAPHIC CONTROL:

The hydrographic control appearing within the detail limits of the Map Drawing consists of 32 stations, which have been shown thereon with 2\(\frac{1}{2}\) mm. black acid ink circles, accompanied by their names, numbers, and descriptions. Of these, two are Recoverable Topographic Stations, while the remaining 30 are temporary hydrographic stations. The relative positions of all the stations, except Recoverable Topographic Station LIT, 1944 (position determined by theodolite directions, have been determined by the radial plots (References A and C).

Form 524 has been submitted for the following two Recoverable Topographic Stations:

No. 2147 West Gable, Small House
LIT, 1944 (see p. 6 this report)

The position of temporary hydrographic station No. 2134 has been shown on Map Drawings, Surveys Nos. T-8004, T-8003 and T-8006. It falls on the meridian at Longitude 69° 07' 30", along which the two Map Drawings make junction. The station has not been included in the 32 stations mentioned above.

36 LANDING FIELDS:

There are no landing fields within the area of the survey.

37 GEOGRAPHIC NAMES:

(See References A and C)

The geographic names appearing on the Map Drawing have been alphabetically compiled in a list and submitted herein.

The geographic names Southern Triangles, Northern Triangles, Green Point Shoal, and Alden Rock, pertain to features within the area of the Survey but have not
37 GEOGRAPHIC NAMES: (Continued)

been shown on the Map Drawing for reasons stated under side heading No. 32 in this report.

38 CABLE CROSSING AREAS:

The cable crossing area appearing on the Map Drawing has been traced from Chart No. 312, enlarged to the scale of the Map Drawing by means of the vertical projector. It has been shown on the glossy side of the Map Drawing with dashed red acid ink lines, accompanied by pertinent notes.

39 JUNCTIONS:

The only junction of details to be considered with Map Drawing, Survey No. T-8007 to the north are those of a cable crossing area. This has been made and is in agreement. The area involved consists of all water.

There is no contemporary survey to the east, the area being a portion of the Atlantic Ocean.

The only junction of details to be considered with Map Drawing, Survey No. T-8005 to the south are those of a cable crossing area. This has been made and is in agreement. The area involved is a portion of the Atlantic Ocean.

The junction of details with Map Drawing, Survey No. T-8003 to the west has been made and is in agreement.

40 RECOMMENDATIONS FOR FUTURE SURVEYS:

The positions of planimetric details appearing on the Map Drawing are believed to be within the limits of satisfactory accuracy. The compilation is complete with respect to all details needed for charting or the preparation of a planimetric map, except for the areas discussed under side heading No. 32 in this report.
44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Tenants Harbor, Me. (15') U.S.G.S., edition of 1906, reprinted 1939, scale 1:62,500

(See References A and C)

The areas of Northern Triangles and Southern Triangles do not appear on the Map Drawing. See side heading No. 32 in this report.

45 COMPARISON WITH EXISTING NAUTICAL CHARTS:

Chart No. 312, published May 1943, corrected to August 24, 1943, scale 1:40,000
Chart No. 225, published April 1942, corrected to Feb. 19, 1944, scale 1:40,000

(See References A and C)

The areas of Green Point Shoal, Southern Triangles, Northern Triangles, and Alden Rock, all of which are within the area of the Survey, have not been shown on the Map Drawing. See side heading No. 32 in this report.
Respectfully submitted:
June 27, 1944

Ruth M. Whitson
Senior Engineering Draftsman

Transfer of Planimetric Details
from the Preliminary Compilations
and Descriptive Report
Reviewed by:

Walter E. Schmidt
Asst. Photogrammetric Engineer

Supervised by:

Walter E. Schmidt
Asst. Photogrammetric Engineer

Approved and Forwarded:
June 30, 1944

Fred L. Peacock
Chief, Air Photographic Party No. 2
GEOGRAPHIC NAMES APPEARING ON MAP DRAWING
SURVEY No. T-8006

Atlantic Ocean
Cat Ledge
Green Island Seal Ledges
Herring Ledge
*Large Green Island
Little Green Island
Metinic Island
Wheeler Big Rock

*Called Green Island on the United States Geological
Survey Tenants Harbor, Me. (15') quadrangle.

Refer to attached list
approved by J. Heck.
DATA RECORD

Preliminary Compilation of Little Green Island and Large Green Island

Quadrangle (II) Tenants Harbor, Me. (U.S.G.S.) Matinicus, Me. (U.S.G.S.) Project No. (II): CS 272
15' quadrangles Sub-Project CS272-C

Field Office: Chief of Party:
Air Photographic Party No. 2 Baltimore, Md. Fred. L. Peacock
Compilation Office: Chief of Party:
Air Photographic Party No. 2 Baltimore, Md. Fred. L. Peacock
Instructions dated (II III): Copy filed in Descriptive
April 1, 1942 Report No. T- Report No. T- (VI)
March 4, 1944 (826-BCR) (additional)
April 11, 1944 (supplemental)
Completed survey received in office:

Reported to Nautical Chart Section:

Reviewed: Applied to chart No. Date:

Redrafting Completed:

Registered: Published:

Compilation Scale: Published Scale:

Approximate 1:9685
Scale Factor (III):

Approximate 1:0325
Geographic Datum (III):

N. A. 1927
Reference Station (III): None selected for preliminary compilation

Datum Plane (III):
Mean Sea Level

Lat.: Long.: Adjusted Unadjusted

State Plane Coordinates (VI):

X = 

Y = 

Military Grid Zone (VI)
PHOTOGRAPHS (III)

Number    Date     Metal Mounted Time    Scale    Stage of Tide
7298-7299 10/22/41  9:15 a.m.    1:10,000  7.6' above M.L.W.

Tide from (III): Tide tables; Atlantic Ocean, 1941—Reference station Portland, Me., with corrections to sub-station Monhegan Island.
Mean Range:  9.3'                   Spring Range:  10.6'

Camera: (Kind or source) U. S. Coast & Geodetic Survey nine lens camera (focal length 82") All negatives are on file in the Washington Office.

Field Inspection by:                     date:
Lieut. Comdr. Henry O. Fortin            Season 1943

Season's field inspection report previously submitted
Field Edit by:                           date:

Date of Mean High-Water Line Location (III):
Date of photographs 10/22/41 — Supplemented by the field inspection data obtained in 1943.

Mercator projection from chart No. 312 by: M. G. Misulia date: 4/6/44

Control plotted by: Michael G. Misulia date: 4/6/44

Radial Plot by: Michael G. Misulia date: 4/5-6/44

Detailed by: Michael G. Misulia (shore line and interior-date: 4/8/44 rough draft)

Reviewed in compilation office by: Harry R. Rudolph date: 4/11/44

Elevations on Field Edit Sheet checked by: date:
STATISTICS (III)

Land Area (Sq. Statute Miles): 4

Shoreline (More than 200 meters to opposite shore): 2.9 statute miles

Shoreline (Less than 200 meters to opposite shore): None

Number of Recoverable Topographic Stations established: 1

Number of Temporary Hydrographic Stations located by radial plot: 14

Leveling (to control contours) - miles: None

Roman numerals indicate whether the item is to be entered by, (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:
DESCRIPTIVE REPORT FOR THE PRELIMINARY COMPILATION
of
LITTLE GREEN AND LARGE GREEN ISLANDS

INTRODUCTION

The preliminary compilation of Little Green and Large Green Islands, which forms the subject of this report, was made pursuant to orders from the Washington Office, in order that the operating hydrographic party have the necessary data for their work this spring in the afore-mentioned area. The Compilation of Map Drawing Survey No. T-3006, part of which covers the area of the preliminary compilation, will be made at a later date when additional horizontal control is available.

CONTROL

Shown on the preliminary compilation are the relative radially plotted positions of a chimney which is on the westernmost building of Large Green Island and which was identified by the Field Inspection Sub-Party as the U. S. Coast and Geodetic Survey triangulation station "GREEN ISLAND, WESTERNMOST BUILDING, 1913;" and the Field Inspection Point "GREEN" which identifies the U. S. Coast and Geodetic Survey triangulation station "GREEN ISLAND, 1859-1934." The Field Inspection Point has been shown on the preliminary compilation with a small black acid ink square. Since there was some doubt by the Compilation Office as to the field identification of the U. S. Coast and Geodetic Survey triangulation station "GREEN ISLAND, WESTERNMOST BUILDING, 1913," it has been shown on the preliminary compilation with a 2½ mm. black acid ink circle accompanied by the name "CHIMNEY, WESTERNMOST BUILDING." Further discussion of the station will be made in the descriptive report of Map Drawing Survey No. T-3006 when the additional horizontal control, which is to be obtained by the 1944 Field Inspection Sub-Party, has been submitted to this Compilation Office.

The U. S. Coast and Geodetic Survey triangulation station "LITTLE GREEN ISLAND, 1913" was not recovered by the Field Inspection Sub-Party of 1943 and therefore its relative position with respect to the other radially plotted points could not be determined by the radial plot.
RADIAL PLOT

The principal point traverse method was used to establish the positions of all tertiary points, etc., shown on the preliminary compilation. This method was used because of inadequate control density in the area of the compilation.

Since only two photographs were available, only intersections of two radials could be obtained for each tertiary point, etc. The relatively strong angular intersection of tertiary points, etc., was shown on the preliminary compilation with small single blue ink circles, while the relatively weak angular intersections were shown with small single green ink circles. The relative positions of the photograph centers (principal points) were shown on the preliminary compilation with large single blue ink circles accompanied by the respective photograph numbers.

The relative position of all tertiary points, etc., are believed to be within the standard of accuracy required by the Washington Office.

Further discussion of the radial plot will be made in the descriptive report of Map Drawing Survey No. T-8006 when additional horizontal control, which is to be obtained by the 1944 Field Inspection Sub-Party, has been submitted to this Compilation Office.

DETAIL

The topographic features as shown on the preliminary compilation of Little Green and Large Green Islands have been detailed in accordance with the field inspection data. The conventional topographic symbols, as recommended by the Washington Office, have been used to show the planimetry on the preliminary compilation.

The land area shown on the preliminary compilation consists mainly of Little Green and Large Green Islands. The shore lines are, for the most part, rocky, having bluffs 10 to 15 feet in height. The interior of these islands consist mainly of grass areas and a few small buildings.

The field inspection data and the number of photographs were adequate for office detailing. The scales of the photographs and the preliminary compilation are in good agreement.
The approximate Mercator Projection, as shown on the preliminary compilation, has been taken from Chart No. 312, which was enlarged to the scale of the preliminary compilation by use of the vertical projector. The scale of the preliminary compilation is approximate and the orientation of the planimetric detail with respect to the Mercator Projection as shown is also approximate.

Mean High-Water Line.

The Mean High-Water Line has been shown with a full heavy-weight black acid ink line, the center of which is considered by this Compilation Office to be the true position.

Low-Water and Shoal Lines.

The outer limits of shoal areas bordering the Mean High-Water Line have been shown with dashed light-weight black acid ink lines accompanied by the note "Shoal." Such limits are for the use of the hydrographic party only, and should not be accepted as the position of low-water.

Areas of rock ledge, bordering the Mean High-Water Line, have been shown with the conventional symbol; and detailed from office interpretation of such features which are visible on the photographs. It is recommended that the character and limits of such areas be verified or corrected by the hydrographic party.

Details offshore from the Mean High-Water Line.

The position of Green Island Seal Ledges, as shown on the preliminary compilation, is approximate. Further investigation by the hydrographic party is recommended.

Numerous rocks which appeared to be above Mean High-Water, but which were not identified by the Field Inspection Sub-Party, have been shown on the preliminary compilation accompanied by the note "H. W. rock. Extent to which it bares is unknown." It is recommended that the hydrographic party verify the existence of such features and also determine the extent to which they bare.

All other rocks and reefs, as identified by the Field Inspection Sub-Party, have also been shown. The extent to which such features bare at Mean Low or Mean-High Water has been shown by notes on the preliminary compilation.
Wharves and Shore Line Structures.

There are no wharves or shore line structures within the area of the preliminary compilation.

LANDMARKS, FIXED AIDS TO NAVIGATION

AND AERONAUTICAL AIDS

No new landmarks, fixed aids to navigation, or aeronautical aids were recommended by the Field Inspection Sub-Party of 1943, for the area covered by the preliminary compilation.

HYDROGRAPHIC CONTROL

There are 15 hydrographic control stations within the area of the preliminary compilation. Of these, 14 are temporary hydrographic stations and the remaining one is a recoverable topographic station. The positions of all the stations have been shown with 2½ mm. black acid ink circles accompanied by descriptive notes.

The data for the one recoverable topographic station, No. 2147 "West Gable, small house," will be submitted on Form 524 with the descriptive report for Map Drawing Survey No. T-8006.

GEOGRAPHIC NAMES

No investigation of geographic names was made by the Field Inspection Sub-Party of 1943 for the area of the preliminary compilation.

The geographic names listed below were obtained from the available Nautical Charts and Quadrangles covering the area of the preliminary compilation. Preference was given to the geographic names appearing on the Nautical Charts.
GEOGRAPHIC NAMES (Continued)

Undisputed Geographic Names

Atlantic Ocean
Green Island Seal Ledges
Herring Ledge
Little Green Island

Disputed Geographic Names

Large Green Island = Green Island

CABLE CROSSINGS

The cable crossing area, as shown on the preliminary compilation with dashed red acid ink lines, was taken from Chart No. 312 which was enlarged to the scale of the preliminary compilation by use of the vertical projector.

COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES


The positions and number of buildings, as shown on the preliminary compilation, are in disagreement with those appearing on the Tenants Harbor Quadrangle.

Stone fences, as detailed on the preliminary compilation, do not appear on the Tenants Harbor Quadrangle.

The relative position of the Mean High-Water Line of Little Green and Large Green Islands appearing on the Tenants Harbor Quadrangle is in disagreement with that as shown on the preliminary compilation.

The cable crossing area as shown on the preliminary compilation does not appear on the Tenants Harbor Quadrangle.

COMPARISON WITH NAUTICAL CHARTS

Chart 312, Published May 1943, corrected to August 24, 1943, Scale 1:40,000
Chart 225, Published April 1942, corrected to February 19, 1944, Scale 1:40,000

Numerous rocks appearing on the Charts were not shown on
COMPARISON WITH NAUTICAL CHARTS (Continued)

the preliminary compilation because their images were not visible on any of the photographs.

The shape of the shore line in the northeastern part of Little Green Island as appears on Chart 312 is in disagreement with that as shown on the preliminary compilation.

Interior planimetry, as shown on the preliminary compilation, does not appear on the Charts.

CONCLUSION

It is believed that the preliminary compilation of Little Green and Large Green Islands provides the necessary data required by the operating hydrographic party.

Portion of FP Green was put in copy of report sent to Lydonia
Respectfully submitted by,
April 12, 1944

Michael G. Wisulia
Jr. Topographic Engineer

Compilation and Report
Reviewed by

Harry R. Rudolph
Sr. Photogrammetric Aid

Supervised by

Walter E. Schmidt
Asst. Photogrammetric Engineer

Approved & Forwarded
April 14, 1944

Fred. L. Peacock,
Chief, Air Photographic Party No. 2
POSITION OF "LIT" 1944

N.A. - 1927

φ 43° 54' 57.11"  1762.6 (89.2) 1861.8
x 69° 01' 57.36"  1279.8 (58.9) 1338.7

S.F. 1.0309 applied

φ 43° 54' 1817.1 (91.9) 1909.0  For Map Drawing, Survey
x 69° 01' 1319.3 (60.7) 1380.0  No. T. 800 %

Attach to original report.
COMPUTATIONS FOR F.I.P. "TIL"

N.A. 1927

Tape Sta. LIT, 1944

1279° 07' 30"

\[ a = c \sin A \Delta \lambda + \]
\[ b = c \cos A \Delta \phi - \]

\[ a = 122.1 \times \sin 50^\circ 27' 19.46'' \]
\[ a = 122.1 \times 0.77112928 \]
\[ a = 94.15 \Delta \lambda + \]

\[ b = 122.1 \times \cos 50^\circ 27' 19.46'' \]
\[ b = 122.1 \times 0.63667860 \]
\[ b = 77.74 \Delta \phi - \]

LIT, 1944

\[ \phi \ 43 - 54 - 57.11 \]
\[ x \ 69 - 01 - 57.36 \]

1279.8

1379.6

1338.7

35.3

F.I.P. "TIL"

N.A. 1927

\[ \phi \ 43^\circ 54' \]
\[ x \ 69^\circ 02' \]

Scale Factor 1.0309 applied

\[ \phi \ 1737.0 \text{ m} \ (172.0) \ 1905.0 \]
\[ x \ 36.4 \text{ m} \ (1343.7) \ 1380.1 \]

Copy checked by W. O.
April 17, 1944

To: The Commanding Officer
    U.S.C.A.G.S. Ship LYDONIA
    601-615 Dorson Avenue
    Baltimore 18, Maryland

From: The Director
      U.S. Coast and Geodetic Survey

Subject: Air Photographic Surveys of Metinic Island
         and the Green Islands, Penobscot Bay Entrance,
         Maine

The final air photographic surveys covering these islands cannot be completed until after additional field inspection has been made during the next field season. However, an advanced survey has been made for Metinic Island and another for the Green Islands. Copies of these two sheets, at approximate scale 1:10,000, will be forwarded to you shortly. These advanced surveys have been prepared for your hydrographic surveys.

Each of these advanced air photographic surveys has been made with insufficient ground control for exact orientation and for determination of the exact scale. However, each sheet is correct within itself; that is, the details are correctly related to one another as regards both azimuth and distance. In other words, each sheet may be considered as on a local datum and with the scale known only approximately.

The projections shown on the sheets are merely to indicate the approximate orientation and preferably should not be used for transferring the details to your boat sheets.

There are two triangulation stations close together at the north end of Metinic Island. You can, of course, use the sheet, as forwarded, as a local boat sheet without orientation and at only approximate scale. If you need
to use it in conjunction with other offlying signals, you will have to determine the geographic position of a point of map detail near the southern end of the island, in order to provide orientation and scale. The detail can then be transferred to your boat sheet at exact scale by adjusting the detail with reference to the fixed positions at the two ends of the island. In any case, the projection now shown should be ignored.

The same applies to the air photographic survey of the Green Islands. The geographic position is known for the station F.I.P. GREEN on Large Green Island. As soon as a geographic position is established on any point of detail on Little Green Island, this survey can be transferred to the boat sheet in the same manner as mentioned in the previous paragraph.

The field inspection party on Project 272 has been instructed to establish the necessary geographic positions on these islands as soon as practicable after beginning field work. However, should the details be needed for hydrography before this work is accomplished by the field inspection party, it may be practicable to establish the minimum of two additional points by sextant cuts or other means with sufficient accuracy for orientation of the details on the boat sheets.

(Signed) J.H. HAWLEY

Acting Director

cc: Comdr. Peacock
April 17, 1944

To: Commander Frederic L. Peacock  
U. S. Coast and Geodetic Survey  
601-611 Gorsuch Avenue  
Baltimore 18, Maryland

From: The Director  
U. S. Coast and Geodetic Survey

Subject: Preliminary Air Photographic Survey of the  
Green Islands, Maine

Enclosed is a copy of a letter to the Commanding Officer  
of the ship Lydonia regarding the use of the preliminary  
survey recently completed by your office.

Please forward to this office the geographic position  
of station F.I.P. GREEN. This will be included in the  
copy of the descriptive report to be furnished the Lydonia.

Enclosure  

(Handwritten) I. N. Harley  
Acting Director
DIVISION OF PHOTOGRAMMETRY
Review Report of
Planimetric Map Manuscript T-8007

Subject numbers not used in this review report have been adequately covered in other parts of the descriptive report or do not apply.

28. FIELD INSPECTION AND DELINEATION

It was necessary to make extensive corrections to the shoreline, because field inspection had placed the shoreline too far seaward. After corrections had been made, the map manuscript was in better agreement with previous topographic surveys. (See review and correspondence in the descriptive report for T-5622.)

Since the photographs covering this area were taken at nearly high water, the full extent of rock ledges and reefs were not visible, nor could some rocks awash between MHW and MLW be identified. Some rocks and one fish trap have been located approximately by field inspection, and are so shown.

Final delineation of ledges, reefs, and rocks will be made at the completion of the hydrographic survey of this area.

42. COMPARISON WITH PREVIOUS TOPOGRAPHIC SURVEYS

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Besides the reasonable changes in shoreline (natural and artificial) between the old surveys and T-8007, there are noteworthy differences in along-shore ledge areas. Some off-shore ledges in the old surveys are depicted as small islands on the new survey (more than one foot above MHW according to field inspection).

Two isolated rocks at 43° 59.6' / 69° 03.3' are shown for the first time on T-8007

Hewell's Island is now in two parts, with a foot bridge connecting them.

Green Island Seal Ledge differs by about 100 meters from the position on the old survey. (See page 6 of the Preliminary Compilation Report.)

The new survey supersedes the old surveys, except for contours, reefs, and ledges.
43. NOTES FOR THE HYDROGRAPHIC SURVEY REVIEWER: Green Islands.

Corrections and additions made during review of map manuscript T-8007 are shown in red. Numerous corrections have been made to the shoreline, and should be applied to the hydrographic survey.

The position of Green Island Seal Ledge as shown on the manuscript is only approximate.

The ledges as shown in the Green Island group and Two-Bush Island and vicinity may be too extensive.

Two rocks awash are shown for the first time at 43° 59.6' N, 69° 03.3' W.

46. APPLICATION TO NAUTICAL CHARTS

This map manuscript has not been applied to 225, 313, or 322 at the time of this review.

Reviewed by: Jack Rihn, 5 Oct. 1945

Under the direction of R. M. Berry, Chief, Review Section

APPROVED BY:

C. B. Jones, Technical Assistant to the Chief, Div. of Photogrammetry

Chief, Nautical Charts Branch, Division of Charts

K. T. Adams, Chief, Div. of Photogrammetry

W. M. Scarfe, Chief, Div. of Coastal Surveys
# NAUTICAL CHARTS BRANCH

**SURVEY NO. 8007**

Record of Application to Charts

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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.