8007

Diag'd. On Diag. Ch. No. 1203

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Air Phetegraphic (Shereline and Interior) Field No. 272 Office No. T-8007

LOCALITY

State Maine

General locality West Penebscet Bay

Locality Sprucehead Island - Two Bush Island
Whitchead Island - Andrews Island

1944....

CHIEF OF PARTY

F.L.Peaceck

LIBRARY & ARCHIVES

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

History of the Radial Plot and Compilation of Survey No. T-8006

Compilation Report 4. Preliminary Compilation Report of Little Green Island and Large Green Island (7-8006)

5. Computations for F.I.P. "TIL"

6. Position of "LIT", 1944 7. Correspondence: 826-RCR

To Commanding Officer ship LYDONIA To Commander F. L. Peacock, Baltimore Off.

DATA RECORD

T- 8007

Quadrangle (II): Tenants Harbor (151), Maine (U.S.G.S.)

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

Field Office: Air Photographic Party No. 2 Chief of Party: H. O. Fortin

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

Instructions dated (II III):

Division of Copy filed in Descriptive Photogrammetry Office Files. Report No. T-

April 1, 1942 April 20, 1943

Completed survey received in office: 16 June, 1944

Reported to Nautical Chart Section:

11/7/45 (Examined) 225

Reviewed: 5 Oct, 1945 Applied to chart No. 3/3 (Reconst) Date: 9 Sept. 1944 302 7/13/48 and 3/17/49

Redrafting Completed: 28 Jan, 1946

May, 1948 Registered:

Published: April, 1947

Compilation Scale: 1:9700

Published Scale; /: 10000

Scale Factor (III): 1.0309

Geographic Datum (III): N. A. 1927

Datum Plane (III): Mean Sea Level

False White Head Reference Station (III): FALSE WHITTHEAD, 1859, 1934, r.1943

- Three words to station

Lat.: 43° 59' 53.184"(1641.5m)Long.: 69° 06' 44.745"(997.0m) Adjusted Unadjusted

State Plane Coordinates (VI): MAINE, EAST ZONE

x = 338, 849.69 Ft.

Y = 60, 657. 26 Ft.

Military Grid Zone (VI)

PHOTOGRAPHS (III)

(metal mounted)

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

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 84") 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: Nonc

date:

Date of Mean Righ-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. Overlap checked by: R.M.B.	date:	
Control plotted by: Donald M. Brant	đate;	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 (5/16/44 to 6/10/44 (
Reviewed in compilation office by: Harry R. Rudolph	date:	6/8/44 - 6/10/44
•		

Elevations on Field Edit Sheet checked by:

date:

STATISTICS (III)

Land Area (Sq. Statute Niles): $1\frac{1}{2} + \frac{1}{2} = 2.0^{*}$

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

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

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 numberals 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: * Totala include area in insert consisting of the Green Desland 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:

names are as follows:

Stamme is three words

FALSE WHITEHEAD, 1859, 1934, r.1943 (F.I.P. "False")

*LARGE HOUSE, NORTH CHIMNEY, 1859, (partial recovery) Consider foot removed in 1943

FROM EVIC TOTAND 1858 r.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 <u>DETAILING</u>:

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 tydrographic Parties \$4.930" N.E. west to \$4.4° 15'

Second 1943, F.L. Peertels - Chief of Party,"

Il Report ovield Inspector of appliotographs from \$69°30'
NEward to A 44°15'; Season (943; F. L. Rescork, Chief of Pasty"

28 <u>DETAILING</u>: (Continued)

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

30 MEAN HIGH-WATER LINE: (Continued)

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.

31 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 foreshore 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 chartôd 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 abovementioned 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 LIGHTHOUSE (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 $2\frac{1}{2}$ 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,

HYDROGRAPHIC CONTROL: (Continued)

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 \ Fled under T-8007 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.

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 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-8007, 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 Ausbeln

A cable crossing area, which was traced from Chart Ausbeln

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A cable crossing area, which are a cable crossing area area. 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:

Tenants Harbor, Quadrangle, (15'), U. S. Geological Survey, edition of 1906, reprinted in 1939, Scale 1:62,500.

44 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 corrected, agreement of Andrews Island extends farther south as shown on the Map Drawing than it appears on is good now 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.

Fair agreement now since corrections were 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 ν 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 3 and 2 above Drawing in the vicinity of Two Bush Reef. They do not MHW according to field appear on the quadrangle.

Two small rocky islets N. E. of Two Bush Island 3' and 2' alone MHW proper, as shown on the Map Drawing, do not appear on according to field inspection the quadrangle.

Between Mink Island and Flag Island a small rocky Bares 3' at MHW islet has been shown on the Map Drawing. It does not secondary to field inspection 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 planimetric 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, Three small islands still while only rocks awash and rocks awash and rocks. while only rocks awash and rock ledge appear shown. on the chart.

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

Much smaller than shown originally.

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

In general, most of the rocks awash appear-True, many rocks could not 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 photographs, and no field inspection data were submitted for their identification.

be identified on photos not most of them. Many are now shown as small islands and many shown as small reefs or rocks

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 Nettle Island · Bar Island · · Pleasant Island . . Burnt Island · Seal Island · Clam Ledges · · Sprucehead Island . Crow Island . • Stallion Ledge · Flag Island · · • Two Bush Channel . Graffam Island . Two Bush Island · Hewell Island . Two Bush Reef · Hewell Island Rocks . . West Penobscot Bay . Home Harbor . Whitehead Island *Yellow Ledge (near Hame Harbor)

*Yellow Ledge (E. of Whiteheed I.)

Yellow Ridge Island · Hurricane Island . Mink Island . . Muscle Ridge Islands. · Muscle Ridge Channel Little Two Bush Island (add: just west of Two Bush I.) . Green Island Seal Ledges. .. Herring Ledge ... Little Green Island . Nash Point (add = s. end of. Andrews I.) ... Large Green Iskad'
*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

Name checked with Mr. Hel

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. 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 matterside of the Map Drawing with $2\frac{1}{2}$ 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.
	2399	It is dome-shaped 5' rock 80 meters off N.W. end of a triangular
	-5//	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
	2402	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
	2405	end looks like layers of pancakes. "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
	2104	has a red chimney. Recoverable Topographic Station.
	2406	6' brown boulder north of gravel beach and a lone
	2407	spruce leaning toward east. 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
	2409	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
	2412	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
	0177	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.
0170	
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
RHAR	head of cove on Graffam Island.
0100	
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.
01.00	Top center of rounding ledge northwest of huge ledge
2427	Top center of rounding leage northwest of hage leage
	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
242/	island.
2430	North end of offshore whale-back ledge in bight.
Charles and the second second	"S. Gab. Small Shack." The station is the S. gable
2431	of a tar papered shack located in the narrow neck
	of a tar papered snack located in the harrow 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
243)	of a hook of ledges.
010/	
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 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
	~44)	end of Pleasant Island. There is a large 8'
	0111	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.
1	2447	"E. Gab. Yellow House." The station is the east Mink I
7		gable of a yellow house, which is north of
		another yellow house and northwest of an un-
		painted house near grass line. Top o
/	2448	Southwest corner of wooden pier north of sand
		beach.
	2449	Round 2' gray rock on west side of point in bight
	~447	on north end of island.
	21.50	
	2450	Top center of whale-back offshore ledge 1 meter
	01.53	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 south-
		west of a knoll.
/	2457	Chimney on southwest end of house which is north
	~471	of a sand beach.
	21.50	Center of grass patch on southeast side of a knob
	2458	
	01.00	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. Recoverable topo-
		graphic station.
		graphite socotons

- 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.
- 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.
- Top of whale-back ledge with N-S. line of grass on east side.
- 2475 Center of 8' sloping boulder southeast of huge whaleback ledges on north end of small island with house.
- 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 155 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
~J17	
2520	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
2720	east side of bay.
2527	
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. Re- fm 524
	coverable 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
2001	and on east side of island.
2608	
2646	6' boulder north of two bights.
	Most southwesterly of two 35' spruces in bight.
2647	5' lone spruce south of retaining wall and 1 meter
0/10	from grass line.
2648	Easterly of two spruces southeast of a telephone pole.
	They are next to a bight.

Southeast corner of stone pier. North of Burnt Island.

Top center of highest rock south of channel between Spring Wesd and Burnt Island. S.S. is

tween 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

2- 8005 anguser on T-8007

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

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

Instructions dated (II III) 8

Copy filed in Descriptive Report No. T-

Completed survey received in office:

Reported to Nautical Chart Sections

Reviewed:

Applied to chart No.

Date:

Redrafting Completed:

Registered:

Published:

Compilation Scale: 1:9700

Published Scale:

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.: 439541 10,991 339.2m Long.: 690 001 30,121 672.2m Adjusted

Unadjusted (Field Computation)

State Plane Coordinates (VI) 8

X =

Ys

Military Grid Zone (VI)

PHOTOGRAPHS (III) (Metal Mounted)

Number	Date	Time	Scale	Stage of Tide
7298-7299	10/22/41	9:15 A.M.	1:10,000	7.6' above M.L.W.
7294-7296	10/22/41	9:15 A.M.	1:10,000	7.6' above M.L.W.

Tide from (III): Predicted tables, Atlantic Ocean, 1941; Reference station Fortland, 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 $8\frac{1}{4}$ "). All negatives are on file in the Washington Office.

Field Inspection by: Lieut. Comdr. Henry O. Fortin date: August 1943
Season's Field Inspection Report previously submitted
(Additional horizontal control)by: Lieut. Dale E. Sturmer May 23, 1944
Field Edit by: date:

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

(Washington Office)

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

" " checked by: B.R.C. (Washington Officedate: 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)

Traced from Preliminary Compilation (Reference C)

by: Ruth M. Whitson(shoreline and interiorate: 6/24-27/44

Reviewed in compilation office by:

W. E. Schmidt

date: 6/28/44

Elevations on Field Edit Sheet checked by:

dates

STATISTICS (III)

Land Area (Sq. Statute Miles): One

Shoreline (More than 200 meters to opposite shore): 6½ statute miles

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

Rumber of Recoverable Topographic Stations established: *2

Rumber of Temporary Hydrographic Stations located by radial plot: 30

Leveling (to control contours) - miles:

Roman numberals 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 to 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.

Bound with T-8004

Reference B

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

Bound with T-8004

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. 826 RCR 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

- now part of T- 8004

History Report of the Radial Plot and Compilation of the southeast portion of Survey No. T-8003 (see Descriptive Report for the compilation of Survey No. T-8003).

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.

See descriptive report of the compound report for 7-8004

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 D), 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.I.P. "Til", which was located by

"Position" appended hereto.

"Position Computation" appended hereto.

Computations for station Lit, 1944 have been submitted to Geodesy.

traverse. 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 computation data for Recoverable Topographic Stations HOG, 1944, and MET, 1944, (Reference D) have been submitted with the Descriptive Report for Survey No. T-8005. Has simil bleqturned over to Geodesy.

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.

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 tedges. 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:

- l 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 $2\frac{1}{2}$ mm. black acid 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

26 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 Substitute Stations Green 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} Fellow 7-8004

METINIC, 1858, 1934, r.1943} Fellow 7-8004

*METINIC ID. HOUSE CHIMNEY, 1910, partial } Consider for (Fellow 7-8004)

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 P 35 (p.11) for additional control.

27 RADIAL PLOT:

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

28 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.

30 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, Alden 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 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).

Filled under T-8007 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. 7-8004. T-8003 and T-8006. It falls on the meridian at Longitude 690 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.

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. I. 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 I. Heck.

DATA RECORD

Preliminary Compilation of Little Green Island and

Large Green Island

Tenants Harbor, Me.(U.S.G.S.) Quadrangle (II): Matinicus, Mel. (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

Fred. L. Peacock

Baltimore, Ed. Compilation Office:

Chief of Party:

Air Photographic Party No. 2

Fred. L. Peacock

Baltimore, Id. Instructions dated (II III):

Copy filed in Descriptive

April 1, 1942

Report No. T-

March 4, 1944 (826-RCR) (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):

Datum Plane (III):

Mean Sea Level

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

Lat:

Long .:

Adjusted Unad justed

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 8½"). All negatives are on file in the Washington Office.

Field Inspection by:

date:

Lieut. Comdr. Henry O. Fortin

Season 1943

Seasons 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

radially

MAXBORGA

Control plotted by: Michael G. Misulia

date: 4/6/44

Sentenchandan Amerikan

date:

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:

dates

STATISTICS (III)

Land Area (Sq Statute Miles):

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-8006, part of which covers the area of the preliminary compilation, will be made at a latef date when additional horizontal control is available.

CONTROL

Shown on the preliminary compilation afthe 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, WESTERMMOST 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 22 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-8006 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 whown 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 positions 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.

DETAIL (Continued)

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 heavyweight 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 limes 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.

DETAIL (Continued)

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 $2\frac{1}{2}$ 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

Tenants Harbor, Me. U. S. G. S.(15') Edition of 1906, reprinted 1939, Scale 1:62,500.
Matinicus, Me. U. S. G. S. (15') Edition of 1906, reprinted 1927, Scale 1:62,500.

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 areas as shown on the preliminary compilation does not appear on the Tenants Barbor 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 whape 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 JIP green was put in copy of whether the hydonia

Respectfully submitted by, April 12, 1944

Michael G. Misulia Jr. Topographic Engineer

Compilation and Report Reviewed by

Harry R. Budolph Sr. Photogrammetric Aid

Supervised by

Walter E. Schmidt Ass't. Photogrammetric Engineer

Approved & Forwarded April 14, 1944

Fred. L. Peacock, Chief, Air Photographic Party No. 2

POSITION OF "LIT" 1944

N.A.-1927

ø 43° 54° 57.11° 1762.6 (89.2) 1851.8

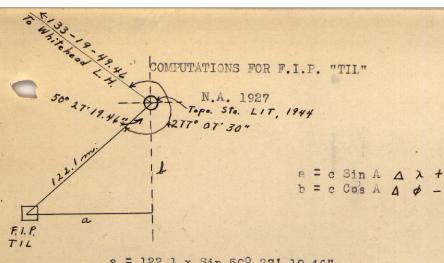
x 69° 01' 57.36" 1279.8 (5°.9) 1338.7

S.F. 1.0309 applied

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1762.6 1279.8 - 77.7 +94.2 1684.9 1374.0 1338.7 35.3

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N.A. 1927

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x 69° 02' 35.3 m (1303.4) 1338.7

Scale Factor 1.0309 applied

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April 17, 1944

The Commanding Officer To: U.S.C.& G.S. Ship LYDONIA 601-613 Gorauch Avenue Baltimore 15. 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

ce: Comdr. Peacock

April 17, 1944

To: Commander Frederic L. Peacock U. S. Coast and Geodetic Survey 601-611 Goreuch 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

VACATO LE HAWLEY
Acting Director

DIVISION OF PHOTOGRAMMETRY Review Report of Planimetric Map Manuscript T-8007

Subject humbers 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

T- 959	1/20000	1864
T-1081	1/10000	1868
T-1151	1/10000	1869
T-1287	1/10000	1871

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.

: H-7054, 1945 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 Ialand Seal Ledge as shown on the manuscript is mot 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° 59.61/ ______. 690 03.31.

46. APPLICATION TO NAUTICAL CHARTS

charts

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

Reviewed by:

Under the

Review

APPROVED BY:

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Technical Assistant to the Chief, Div. of Photogrammetry

Nautical Charts Branch. Division of Charts

Div. of Photogrammetry

Chief,

NAUTICAL CHARTS BRANCH

SURVEY NOT 8007

Record of Application to Charts

DATE CHART CARTOGRAPHER REMARKS 11/7/45 225 SWalker Examined - no cor. now - not applied Before After Verification and Review 11/7/45 31/3 Stand Before After Verification and Review 11/7/46 Stand Stand Before After Verification and Review Before After Verification and Review				
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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.