

8648

Diag'd. on Diag. Ch. No. 1201

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. CS-272-F Office No. T-8648

LOCALITY

State Maine

General locality Coastal Area

Locality Bois Bubert Is. to Norton Is.

1944-'48

CHIEF OF PARTY

D.E. Sturmer

LIBRARY & ARCHIVES

DATE

June 10, - 1949

B-1870-1 (1)

8648

DATA RECORD

T- 8648

Quadrangle (II): Bois Bubert, Maine

Project No. (II): CS-272-F

Field Office: Millbridge, Maine

Chief of Party: Dale E. Sturmer

Compilation Office: Baltimore, Md.

Chief of Party: Thos. B. Reed

Instructions dated (II III): June 19, 1945

Copy filed in ^{Div. of Photogrammetry} ~~Descriptive~~ _{Office Files}
Report No. ~~T~~ (VI)

Completed survey received in office: 12-9-48

Reported to Nautical Chart Section:

Reviewed: 3-11-49 Applied to chart No. Date:

Redrafting Completed:

Registered: 4-21-49 Published:

Compilation Scale: 1:10,000 Published Scale: 1:24,000
(Multiplex scale 1:8500)

Scale Factor (III):

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

Reference Station (III): BOIS BUBERT, 1861

Lat.: 44° 26' 26.410" Long.: 67° 52' 16.070" Adjusted
~~Unadjusted~~

State Plane Coordinates (VI):

X =

Y =

Military Grid Zone (VI)

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PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
X 44-C-1114 ✓	5-19-44	1045	1:20,000	6.2' above MLW
X 44-C-1137 ✓	"	1100	"	5.4' " "
X 44-C-1138-1141 ✓	"	1115	"	4.7' " "
X 44-C-1364-1365	5-28-44	1200	"	4.4' " "
X 44-C-1366-1368	"	1215	"	5.0' " "
X 44-C-1369-1372	"	1230	"	5.6' " "
X 44-C-1373	"	1245	"	6.0' " "
X 44-C-1747-1748	6-5-44	1030	"	9.8' " "
X 44-C-791-796 ✓	5-16-44	0930	"	2.2' " "
44-C-2105-2109	6-23-44	1130	"	9.6' " "

1944

S. Balt

Pigeon Hill Bay; Trafton Island, Narraguagus Bay and Tide from (III): Gibbs Island, Pleasant River.

Mean Range: 11.1' to 11.3' Spring Range: 12.7' to 12.9'

Camera: (Kind or source) U.S.C. & G.S., "C" 6" Metrogon Lens.

Field Inspection by: M.G. Misulia date: Aug. to Oct. 1945 I. Zerpel

Field Edit by: G.E. Varnadoc date: July 1948

Date of Mean High-Water Line Location (III): Aug. to Oct. 1945

Projection and Grids ruled by (III) S. Rose date: 12-26-45

" " " checked by: S. Rose date: 12-26-45

Control plotted by: R.J.F. and B. Wilson date: Nov. 1946

Control checked by: N.S.S., B. Wilson, and H.P. Eichert date: Nov. 1946

Partial Radial Plot by: A.C. Rauck, Jr. date: May 1947 Bridged with multiplex

Multiplex Detailed by: A.K. Heywood, E.L. Bauman, H.P. Eichert date: Feb. to Sept. 1947 Shoreline detailed by: Bernice Wilson Feb. 1948

Reviewed in compilation office by: A.C. Rauck, Jr. date: April 1948

Elevations on manuscript checked by: A.C. Rauck, Jr. date: April 1948

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STATISTICS (III)

Land Area (Sq. Statute Miles): 6

Shoreline (More than 200 meters to opposite shore): 37 statute miles

Shoreline (Less than 200 meters to opposite shore): 1 statute mi.

Number of Recoverable Topographic Stations established: 12

Number of Temporary Hydrographic Stations located by radial and multiplex plot: 154

Leveling (~~XXXXXXXXXXXX~~ multiplex models) - miles: See Descriptive and Seasons Report,
Project CS-272-F, December 26, 1945, Dale
E. Sturmer. Filed in Div. of Photogrammetry - General Files

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:

MAP T. 8648

PROJECT NO. CS-272-F

SCALE OF MAP 1:10,000

SCALE FACTOR 1.00

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR x -COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
					FORWARD	(BACK)		FORWARD	(BACK)	
BOIS BUBERT, 1861	U.S.C. & G.S. G.P. List	N.A. 1927	44° 26'	26.410"				815.2	1036.8	
COUP, 1945	"	"	67 52	16.070				355.4	971.6	
SS COUP, 1945	"	"	44 28	21.080				650.7	1201.3	
DEAL, 1945	"	"	67 47	19.812				437.9	888.4	
SS DEAL, 1945	"	"	44 28					670.1	1181.9	
JORDANS DELIGHT	"	"	67 47					464.2	862.1	
LEDGE BN., 1913	"	"	44 25	07.987				246.5	1605.5	
NAIAGAUGUS L.H. 1861	"	"	67 51	25.806				570.9	756.5	
NORTON ISLAND	"	"	44 25					322.7	1529.3	
BEACON, 1913	"	"	67 51					502.7	824.7	
POND ISLAND, HO., CUFOLA FLAGSTAFF'13	"	"	67 48	56.565				898.9	953.1	
TRAF, 1913	"	"	44 27	21.140				1251.3	76.1	
S.S. TRAF, 1913	"	"	67 49	54.528				652.5	1199.5	
THAPTON HALFTIDE	"	"	44 29	30.011				1205.6	121.1	
LEDGE B'N., 1913	"	"	67 45	25.353				926.3	925.7	
	"	"	44 27	44.455				560.2	765.7	
	"	"	67 50	18.147				1372.2	479.8	
	"	"	44 29	20.713				401.2	925.5	
	"	"	67 49	39.049				639.3	1212.7	
	"	"	44 29					862.8	463.1	
	"	"	67 49					655.5	1196.5	
	"	"	44 29	56.315				862.7	463.2	
	"	"	67 50	08.967				1738.3	113.7	
	"	"						198.1	1127.8	

COMPUTED BY: *See below* SWI., AKH., HPE.

DATE Winter 1946-1947

CHECKED BY: *W.K. Raymond* EIB., AKH., SWI.

DATE Winter 1946-1947

M-2388-12

FIELD REPORT

TOPOGRAPHIC MANUSCRIPT T - 8648

There is no individual field report for this survey. See
Descriptive and Seasons Report for this project.
Filed in Div of Photogrammetry - General Files

COMPILATION REPORT

TOPOGRAPHIC MANUSCRIPT SURVEY NO. T-8648

26. CONTROL

With the exception of DEAL, 1945, and NORTON ISLAND BEACON, 1913, all other horizontal control in this survey was adequate.

These two stations were not easily identified in the multiplex models. However, it is believed that they were identified sufficiently to be held within an error that is negligible.

Refer to Compilation Report, and Descriptive and Seasons Report for this project, December 30, 1947 and December 26, 1945, respectively.
Filed in Div. of Photogrammetry - General Files

27. RADIAL PLOT

A radial line plot of this survey was made at the Washington Office.

This plot was made with the purpose of establishing pass points as secondary control for multiplex plotting. Sub. Pt. TRAF, 1913, could not be held in the radial plot and its position was re-picked in the Washington Office.

This survey was bridged by multiplex and Sub. Pt. TRAF, 1913 was held to its new position. It is believed that the sub. pt. was misidentified by the field party.

Due to inability to clear parallax and horizontalize the multiplex models covering the island JORDANS DELIGHT, it was necessary to detail by the radial plot method.

A careful review was made of the radial plot in the vicinity of this island. The pass points of the radial plot were found satisfactory and detail points were established.

It was also necessary to utilize radial plot pass points to complete the islands of Egg Rock, Norton Island Ledge, and ~~Big Pot~~ ^{Pot Rock} in this survey.

28. DETAILING

The map manuscript detail with the exception of increased lettering size, is as set forth in Photogrammetry Instructions No. 17, dated Sept. 15, 1947.

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28. DETAILING (Continued)

Several islands in this survey could not be completed insofar as contours are concerned. These, Flint Island and Shipstern Island, are not covered by photography suitable for multiplex plotting.
Contoured by Field Editor

A vertical reflection projector was used with photograph 44-C-1364 to plot these islands.

The photograph image was held to horizontal control sub. pt. COUP, 1945, and multiplex detail points along the south end of Dyer Island. Detail points and photo-hydro points were then plotted on the manuscript. Planimetry and shoreline detail was then traced directly from the field inspection print onto the manuscript.

and

In order to include Green Island/Petit Manan Island in this survey, it was necessary to displace their positions. (*Shown as an "Inset"*)

As there was not sufficient space to detail these islands in their true positions, they were displaced to the south^{east} corner of this quadrangle. These are appropriately labeled as to name and true position.

Neither radial plot nor multiplex methods were used to plot these islands. Three horizontal control stations are located on these islands. These were held to scale and orient photographs for compilation.

29. SUPPLEMENTAL DATA

None.

30. MEAN HIGH WATER LINE

Field inspector's interpretation of mean high water line was verified by stereoscopic means.

Refer to "Shoreline and Hydrographic Station Location" of Compilation Report, December 30, 1947 for shoreline compilation method.
Filed in Div. of Photogrammetry - General Files

31. LOW WATER AND SHOAL LINES

Low water lines of positive identification by the field party are labeled "L.W.L." on the map manuscript.

Refer to Descriptive and Seasons Report, "MEAN LOW WATER LINE".

Where the field party's identification of low water line coincided with the compilers interpretation of ledge areas, the ledge line was labeled "L.W.L.".

See Item 31 - Review Report for T 8647

32. DETAILS OFFSHORE FROM THE HIGH WATER LINE

Many rocks indicated by the field party are not shown on the manuscript. Only those rocks lying at the ledge line or off the ledge shelf have been shown, while many inshore ledge rocks have been omitted. These are not considered to be a danger to navigation as large areas of the ledge shelf are awash at mean high water,

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Rocks of questionable position are noted on the manuscript for investigation by the hydrographer.

Refer to "Descriptive and Seasons Report" for this project.
See Review Report Item 28

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33. WHARVES AND SHORELINE STRUCTURES

There are no piers along the shoreline of this survey.

Barriers or enclosures for lobster pounds, a boat slide, and lighthouse cable entrance are the only shoreline structures in the survey.

34. LANDMARKS AND AIDS TO NAVIGATION

Refer to "Landmarks and Aids to Navigation" of Descriptive and Seasons Report for this project.

There are four non-floating aids to navigation and two landmarks included in this survey. These are previously established horizontal control stations. *See review report*

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35. HYDROGRAPHIC CONTROL

The following topographic station and photo-hydro stations could not be plotted accurately and were therefore omitted from the manuscript:

T.S. 2526, 2917 B, 2918, 2923, 2941, 2968, 2969.

Refer to "Hydrographic Control" of Descriptive and Seasons Report and Compilation Report for this project.

36. LANDING FIELDS AND AERONAUTICAL AIDS

None.

37. JUNCTIONS

Junctions were completed as follows:

North, with T-8644
East, No junction necessary, water area - Junction checked (Depth Curves)
South, " " " " "
West, with T-8647

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38. GEOGRAPHIC NAMES *814* ✓ Approved list filed in the Geographic Names Section

No geographic name survey was made for this quadrangle.

Names were taken from U.S.C. & G.S. Chart 305, March 1931 (fourth edition), and a list accompanies this report.

39. BOUNDARIES

This survey is not included in The Special Report, Boundaries, Maine, July 1946.

The Millbridge-Harrington; and Harrington-Addison townlines have not been completed in this survey. These boundary lines lie in the Narraguagus Bay and Pleasant Bay, and are noted on the manuscript for completion by the field edit party.

See Review Report Item 28

Find

40. VERTICAL CONTROL

Due to inadequate vertical control in model 44-C-1141-1142, the model could not be leveled satisfactorily and form lines rather than contours were drawn in the area. These form lines are not to be accepted, and the area should be checked or contoured by the field edit party.

See Field Edit Report

Refer to Compilation Report for this project.

41. REMARKS

The representation of planimetric and topographic features of this manuscript is believed to be within the allowable error established under War Mapping Project CS-270, dated November 16, 1942.

No discrepancy overlay was prepared for this manuscript. Only a few discrepancies were encountered and these are noted on the manuscript.

Shipstern Island, Flint Island, and Jordans Delight were covered by photography not suitable for multiplex plotting. These islands must be contoured by the field edit party. *Contoured by Field Editor.*

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

Comparison made with U. S. Geological Petit ~~Manan~~ Quadrangle, Edition 1904, Reprinted 1932.

Culture and topography in general are in agreement.

45. COMPARISON WITH NAUTICAL CHARTS

Comparison made with U.S.G. & G.S. Chart No. 305, first edition 1888, fourth edition 1931.

45. COMPARISON WITH NAUTICAL CHARTS (Continued)

The projected image of this chart enlarged to the scale of the manuscript was used to make a more thorough comparison.

The shoreline of Norton Island is displaced southwesterly from its charted position.

Pot Rock

Big Pot, a rock south of Norton Island, is also displaced southwesterly.

Mackerel Rock is displaced to the southeast of its charted position. This displacement is so great, that the manuscript position which is approximate, should be investigated. See Review Report Item 28

///k

The east shore of Joe Dyer Point is displaced easterly from its charted position.

The southeast shore and pond of Bois Bubert Island at Big Head, and the northeast shore of Little Bois Bubert Island is displaced easterly from its charted position.

It is believed that upon completion of the hydrographic features the manuscript should supersede all other charted data.

Respectfully submitted

Albert C. Rauck, Jr.
Albert C. Rauck, Jr.,
Engineering Draftsman
Descriptive Report and Review

Bernice Wilson
Bernice Wilson
Engineering Aid (Cartographic)

Stanley W. Trow
Stanley W. Trow
Supervisor

Approved and forwarded
May 1948

Thos B Reed
Thos. B. Reed
Officer in Charge
Baltimore Photogrammetric Office

GEOGRAPHIC NAMES

T-8648

- * Addison
- Baldwin Head
- Bar Island
- Big Head
- ~~Black~~ Pot Rock (recent US&N decision)
- Black Ledge
- Bobby Creek
- Bois Bubert Island
- Coles Ledge
- Currant Island
- Douglas Island Harbor
- Douglas Island Ledge
- Douglas Islands
- Dyer Island
- Egg Rock
- Flint Island
- Flint Island Narrows
- Green Island
- Gull Rocks * R
- * Harrington
- Jerry Ledge
- Joe Dyer Point *
- Jo Leighton Ground
- Jordans Delight
- Jordans Delight Ledge
- Little Bois Bubert Harbor
- Little Bois Bubert Island
- Lower Middle Ground
- Mackerel Rock
- * Millbridge
- Monhonon Cove
- Narraguagus Bay
- Norton Island
- Norton Island Ledge
- Pea Island Ledges
- Petit Manan Island
- Petit Manan Reef
- Pigeon Hill Bay
- Pleasant Bay
- Pond Island

- Seal Cove
- Seal Cove Ledge
- Shipstern Island
- Smith Cove
- Stover Cove
- Tibbett Rock (Lat. 44° 23')
(Long. 67° 47')
- Tommy Island
- x • Trafton Halftide Ledge
- Trafton Island Ledge
- Watts Cove
- Western Reef *
- Whale Ledge
- x • Trafton Island

* These township names from
U. S. Geological Survey,
Petit Manan, Quadrangle.

Plus:

- Norton Island Reef
- Southwest Cove
- Pond Island Ledge

Before field edit: names
preceded by . are approved.
6/2/48 L. Heck

Final check 2/2/49 L.H.

Add:

• Jackson Ledge — ?

* = use old name pending
U.S.B.G.N. decision.

T-8648

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~

STRIKE OUT ONE

Washington, D. C. February 2, 1949

I recommend that the following objects which have ~~(be associated)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(the associated)~~ the charts indicated.

The positions given have been checked after listing by

S. V. Griffith
S. V. Griffith

Chief of Party.

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED					
				LATITUDE		LONGITUDE												
				°	'	°	'							D. M. METERS	D. P. METERS			
Bn.	MAINE	Trafton Halftide Ledge Daybeacon		44	29	1738.3	67	50	198.1	NA	1927	Triang	1913				305 1201	
Bn.		Morton Island Daybeacon		44	29	926.3	67	45	560.2	"	"	"	1913				304, 305 1201	
Bn.		Jordans Delight Ledge Daybeacon		44	25	898.9	67	48	1251.3	"	"	"	1913				305 1201	
		Petit Manan Lighthouse		44	22	86.7	67	51	1175.1	"	"	"	1860				305 1201	
Cupola		Pond Island, House, Cupola		44	27	1372.2	67	50	401.2	"	"	"	1913				305 1201	
Tower		Narraguagus Lighthouse		44	27	652.5	67	49	1205.6	"	"	"	1861				305 1201	

Survey 169(49)

NOTES TO HYDROGRAPHER
FOR 48
SURVEY T - 8684

Notes, relevant to hydrographic features to be investigated, are lettered on the map manuscript.

The following list of photo-hydro stations, with descriptions and reference numbers, are within this survey.

Signal No.	Description	Photo. No.	Height above MHW
1460	NE gable of boathouse on NW end of island, 15 m. SW of MHW.	1368	20'
1461	Ledge flush with ground, 3M E of grass line, about 25M from MHW and 2M from large spot of ledge. Pile of rocks for identification.	1368	10'
1462	Large boulder 3M SW of MHW, 10M W of black ledge, 20M W of light ledge, and 25M out from grass line.	1368	2'
1463	Point of grass on red ledge. About 6M S of MHW.	1368	6'
1464	N gable of 8' by 10' tar paper shack, about 20M N of MHW.	1368	20'
2518	SE gable 1 story unpainted house. Screened porch on NE side. Large bay window on SE side.	796	25'
2519	45' pointed spruce at edge of tree line. There is a dead birch 5M to W, and a 30' spruce 10M to E.	796	3'
2520	30' juniper, tallest and most northerly of a group. There is a 20' birch south of the juniper.	796	6'
2521	30' pointed spruce on brush line. Another spruce is 4M to NW, and a dead birch is 10M to SW.	796	2'
2522	35' pointed spruce at edge of 3' ledge bank, the most southwesterly in a group of tall spruces. A dead spruce (with top half of trunk gone) is 1M to NE.	796	3'
2523	Brown gray boulder, 6 meters E of MHWL. Just N of sand beach.	796	3'
2524	8' double spruce, most northerly spruce on point.	796	3'
2525	10' flat top spruce. Another 10' spruce 2 meters N of it.	795	8'

Signal No.	Description	Photo No.	Height above MHW
2675	30' blazed spruce, no branches on lower half, on edge of rock cliff. Some tall spruces are east.	1141	8'
2677	30' spruce, about 8M to MHW, tallest in group. A leaning spruce is to SE.	1141	
2678	30' spruce, tallest in immediate area. A 5' spruce is 6M to S.	1141	4'
2679	15' double spruce, about 6 M N of MHW. A group of small spruces is 8M to the SE.	1141	5'
2680	Rotted tree stump on the SW side of an earth mound on ledge. A similar earth mound 10M to NE.	1141	7'
2681	35' spruce, most northwesterly on point. A group of spruces is inshore from station.	1141	5'
2682	10' spruce, most southerly on point, on edge of mud bank, and about 3 M S of a group of spruces.	1141	6'
2683	10' spruce on edge of cliff, just NE of a small clearing and just NE of a ledge point.	1141	5'
2684	Chimney in approx. center of 1½ story red brick house. Chimney is on the E section of house and 1' S of ridge.	1141	25'
2685	Most northerly spruce, 10M SW of shack.	1141	6'
2686	10' double spruce, most northwesterly of a group, about 3M E of ledge bank.	1141	10'
2687	30' spruce with no branches on upper half. A 6' spruce is about 10M to SE.	1141	6'
2688	20' Y-shaped spruce on side of ledge. Another spruce is about 20M to NW.	1140	5'
2689	4' boulder, largest black boulder in vicinity. There is a large brown boulder 1M offshore.	1140	5'
2691	8' spruce, blazed on S. side, on SE corner of hill, just S of brush line, bottom branches cut off. There is a rock ledge 1M to SE, a clump of brush 3M to E, and a pile of rocks on ledge 1M to S.	1140	
2692	10' dead tree stump on highest part of point. There is a 5' double spruce about 2 M to the S and another dead tree stump about 12M to the NW.	1140	30'

Signal No.	Description	Photo No.	Height above MHW
2693	25' spruce, most westerly on E side of cove. A dead tree stump (trunk) is about 3M to E. Sta. tree is on edge of earth bank, and blazed on W. side.	1140	10'
2694	About 25' unblazed bushy spruce, about 60M to MHW and about 55M W of brush line. Largest spruce in near area. Grove of junipers begins about 50M to SW.	1140	7'
2695	About 8' unblazed spruce, about 9M W of MHW. A small clump of spruces is about 5M to W, and a 20' birch is about 11 M to WSW.	1140	6'
2696	About 13' unblazed double spruce, about 23 M W of MHW, about 20M W of grass line. An 8' tree stump is about 16 M to NE.	1141	7'
2697	About 35' unblazed spruce, largest, most prominent tree near point, about 11M to N of MHW, about 3M to N of grass line.	1141	8'
2698	5' gray boulder, about 10' long N to S and 10' wide, about 55M to SE of MHW. Two 30' birches are about 40M to W.	1141	
2863	Lone 35' spruce, about 90M to NW of point. Lower half of tree has few branches.	2108	4'
2864	25' spruce surrounded by 3 dead spruces. Very top of spruce is bare.	2108	4'
2865	SW corner of black ledge, in center of which are small spruces. Pile of rocks at station.	2108	20'
2867	High point of black ledge on N side of a long strip of black ledge. A similar ledge is to SE. Pile of rocks on station.	2108	6'
2868	30' spruce, largest tree in vicinity and E of a group of spruces.	2108	15'
2871	Red brick chimney 2M to SW of NE gable of white shingled house with screened porch on NW side.	2107	30'
2872	N gable of 1-story white house with red roof and red brick chy. Door and 3 windows on W. side.	2107	20'
2874	6' brown boulder, largest in vicinity. Has a crack running E and W.	2107	3'
2875	W. corner of ledge. Two 4' spruces are to N and W about 10M apart. A 7' pear tree is on NE end of ledge. A pile of stones with pole in it in on station.	2107	10'

Signal No.	Description	Photo. No.	Height above MHW.
2876	30' spruce. There is a large 8' boulder 8M to S, and a black 4' boulder 10M to SE.	2107	5'
2877	15' lone spruce, most southeasterly on island.	2106	10'
2878	15' spruce, most northerly on island. Small clearing on each side. Blazed on N. side.	2106	6'
2880	S gable of 1-story house. Porch on S side and two windows on W side. Unpainted shingles.	2105	15'
2881	25' spruce on NW side of clearing. A 2' spruce in center of clearing 20M to S.	2105	
2882	30' spruce, lower 1/3 of which leans to W. There is a group of boulders 4M to N, a group of birches 15M to N, and a birch directly behind the boulders.	2105	3'
2883	10' spruce, most northerly on point. There is a dead tree 5M to NW.	2105	4'
2884	3' brown boulder just N of ledge point.	2105	1'
2885	25' bushy spruce, very wide at base and flat topped. Small clearing to SW.	2105	2'
2886	20' double juniper, 20M to NE of point of land, and in clearing.	2105	3'
2887	20' spruce, most southwesterly on small island.	2105	2'
2888	30' pointed spruce on S side of brush clearing. Large dead birch nearby. Group of smaller spruces around it.	2105	5'
2889	30' spruce at back end of cut in ledge. There is a 1' birch stump 1M to S.	2105	1'
2890	30' spruce at edge of brush line. A leaning spruce 10M to N. Dead tree between the 2 trees.	2105	2'
2891	35' four-trunk spruce. Dead birch at its base. 25M to NE of point.	2105	3'
2892	Many trunked spruce on S side of small cove, at back limits of marsh.	2105	2'

Signal No.	Description	Photo. No.	Height above MHW
2893	35' spruce, most southerly of a group, on S side of small cove.	795	5'
2894	15' spruce on E side of a pond. A small bushy spruce is 4M to SE.	795	2'
2895	15' spruce, blazed on SE side, 10M to E of inshore end of strip of black ledge. A 35' spruce is 4M to N and a dead tree is at back limits of black strip of ledge.	2105	8'
2896	35' spruce, 6M to NE of a larger spruce. On NE end of gravel beach as it appears at high tide.	2105	6'
2897	20' spruce, most easterly on point of land. About 15M to SE of 1-story log bungalow. At edge of grass line. 8' spruce 3M to SW.	2105	7'
2898	30' spruce on S side of small clearing. 8M to the S is a 35' spruce which has no branches on lower half, and 8 M to NW is a bushy 10' spruce.	2105	6'
2899	Red brick chimney in center of 2 story white house, on SW end of lobster pound.	2105	35'
2901	30' spruce, most southerly of a wooded area. A 45' double spruce is 15M to NE.	795	4'
2902	8' spruce about 60M S of rock pile used for target practice.	795	6'
2903	35' lone spruce 15 M to E and 30M to N of tree line.	795	5'
2904	20' bushy spruce, most southerly on point.	793	5'
2905	15' spruce on edge of 10' white ledge bluff. About 15M to SE is a taller spruce.	2107	10'
2906	30' spruce, flat top, trunk crooked at top.	2107	6'
2907	20' bushy spruce. Just SW of a small gravel beach.	2107	25'
2908	10' bushy spruce, 3M to W of brush line. A thin 6' spruce is 3M to NE, a group of junipers are around the station tree.	793	8'
2909	20' spruce, on E edge of ledge. Largest spruce on N side of point. A 10' juniper is about 25M to the SW.	2108	25'
2911	20' bushy spruce, just SW from a long strip of black ledge. An 8' spruce is 8M to W. A 4' dead tree trunk is about 15M to S.	2108	8'
2912	15' double spruce, largest of a group, just E. of brush	2108	8'

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Signal No.	Description	Photo. No.	Height above MHW
2912	15' bushy spruce, just SW from a long strip of black ledge. An 8' spruce is SW to W. A 4' dead tree trunk is about 15M to S.	2108	8'
2913	Point of grass. Pile of rocks with pole in center at station.	2108	6'
2914	South tip of brush point. Just back of rock ledge. Another patch of brush is to the N. Rock pile and pole at station.	2108	7'
2915	Bushy 10' spruce with many trunks. A 5' spruce is 7m to W.	2108	7'
2916	East gable of 1-story shack, window on S side, unstained shingle.	2108	15'
2917	SE gable of 1-story shack. Another shack about 20M to S.	2108	10'
2917A	North tip of grass on N end of island. A rock pile with a 6' birch pole is at station. Station is about 25M to SW of break between Bois Bubert I. and Little Bois Bubert Island. Sta. is at low spot in ground, about 6' above MHW. A 5' pole is between the two islands about 25M to NE.	2108	6'
2919	18' spruce on point most northwesterly of a group. A dead birch is 2M to SE.	795	2'
2920	Top of 30' leaning spruce.	795	3'
2921	SW gable of large shingled barn. Door on SW side. In clearing on top of rise.	795	25'
2922	12' spruce on edge of brush line. Group of spruces 20M to SW.	795	1'
2924	10' spruce, most northeasterly on point. A dead spruce is 10M to NW lying on ledge.	2105	5'
2925	25' spruce, midway between 2 groups of spruces. A dead tree is 10M to NW.	2105	3'
2926	Most northwesterly of two 20' leaning spruces. 12M to SW of point.	795	1'
2927	30' spruce, largest and most southerly on point.	795	3'
2928	25' spruce on E side of marshy cove. Most southwesterly of a group of spruces. Similar spruce 3M to E.	2105	2'

Signal No.	Description	Photo No.	Height above MHW
2929	6' spruce on point. A 4' spruce with a birch stump alongside of it is 2M to NW. A group of birches is to the S.	795	3'
2930	25' double spruce, tallest on ledge point.	2107	3'
2931	20' spruce, crooked on top.	2107	13'
2932	6' spruce on point in cent ^{er} of cove.	2107	8'
2933	20' dark spruce, most southwesterly and largest on point.	2107	18'
2934	Most northeasterly spruce on island.	2107	4'
2935	40' spruce, largest in immediate vicinity. About 23 m. S of northern end of island.	793	25'
2936	30' spruce, most southerly on N side of deep cut in ledge. A black strip of ledge is about 8M to S.	793	30'
2937	35' spruce on S end of island, 10M to NW of deep cut in ledge. Part of a dead spruce 8M to W. Most southwesterly of a group of spruces.	793	20'
2938	25' spruce at edge of ledge bluff, 6m to NW of deep cut in ledge. A dead tree trunk is 3M to NE lying on ground and points to SE.	793	15'
2940	30' spruce, 10M to SW of MHW. 10M to S of a group of smaller spruces. A taller dying spruce is 10M to SE.	793	12'
2942	30' spruce, most southwesterly on island. A group of dead trunks is to NW.	793	20'
2943	Most northeasterly spruce on island. Blazed on E. side.	793	10'
2944	4' brown boulder on a black ledge on MHW. There is a large dark bluff about 10M to S. Largest brown boulder on NW side of island.	793	4'
2945	25' double spruce, most easterly spruce on island. There is a cut in black ledge 4M to E, a large cut in ledge 15M to S, and 1' tree stump 10M to S.	793	15'
2946	Center of maroon color rock with longer axis E and W, on top a flat dark ledge, and just offshore from a greenish ledge bluff. A deep cut in ledge is 15M to W.	793	7'

Signal No.	Description	Photo. No.	Height above MHW
2947	6' spruce, most southerly on island. There is a small pool on ledge 12M to SW, inshore from which is a greenish white ledge. Two 4' spruces, one of them dead, are next to station.	793	20'
2962	35' spruce on SW corner of island. Tallest in a group of spruces.	2105	5'
2964	Center of light grey boulder, on a dark ledge, about 25M to E of N end of group of dead trees. A light brown boulder is 3M to SE.	1138	5'
2965	Dark 8' ledge on S end of island. There is a crack in the middle in shape of triangle. Similar ledge 4M to N which has grass growing in middle. In line with deep cut in ledge about 35M to S.	1138	25'
2966	W end of narrow section of ledge. Ledge has two holes in center.	1138	15'
2967	Hole in center of bluish ledge, usually filled with water, about 65M to W of large ledge area. Just back of boulder beach.	1138	6'
2970	30' spruce on edge of ledge bank, at head of small cove. There are two large brown boulders 13M to N. Most northerly in line of spruces. Pile of rocks at its base.	1369	8'
2972	20' spruce. Most northwesterly. Tree in large clear area. Another spruce 10M to S.	1369	7'
3035	Lone 10' spruce 6M to NW of a cut in ledge, and 8M to SE of a smaller cut.	1141	6'
3036	Small bush about 8M to W of a 10' birch tree. Bush is at edge of grass line. Dead birch stump just inshore.	1141	2'
3038	6' spruce on NE side of cove, the most southeasterly spruce on point.	1141	8'
3062	35' triple trunk spruce, most easterly of a group of spruces. At base of tree is a log and rock cribbing. A small shack is 4M to W.	1369	8'
3063	SW gable of 1-story shingle bungalow with porch on SW side.	1369	15'

Signal Description No.		Photo. No.	Height above MHW
3064	15' spruce. About 100 meters S of gravel beach. In small clearing. Blazed on W. side.	1369	8'
3065	25' dying spruce, most northerly tree on island.	1369	6'
3066	25' double spruce, about 10M to N of cut in ledge and most northwesterly in a group of spruces. There is a 4' spruce 10M to N.	1369	10'
3067	35' spruce. A 10' dead trunk is 1M inshore and a 4' dead trunk 1M to NW with a 1' dead trunk 1' to S of it.	1369	10'
3068	20' spruce, most southwesterly on island.	1140	50'
3069	20' spruce on S end of a group. 2M to N of deep cut in ledge. Few branches on lower half. A group of 3 dead trunks is 2M to N; and a 20' dead tree is on other side of cut, 15M to SW.	1140	20'
3070	25' spruce on NW end of island just inshore from ledge point. A 4' spruce is 5M to NE. Blazed on N. side.	1140	12'
3071	25' spruce, most southwesterly on island.	1140	15'
3072	15' spruce, most westerly on point.	1140	10'
3073	30' lone double spruce on edge of brush line.	1140	4'
3074	35' spruce. A 4' spruce is 3M to N at edge of ledge. On back edge of grassy patch on ledge.	1137	6'
3075	25' spruce tree, most northerly in group.	1137	10'
3076	5' spruce tree, most southerly on point, about 10M to S of woods line.	1137	10'
3077	20' broad spruce. There is a double 25' spruce 30M to SW, and a light gray ledge 15M to SE.	1137	6'
3078	10' spruce about 30M to E of ledge cove. It is most southerly spruce on point.	1137	15'
3079	6' flat top bushy spruce on edge of ledge bluff on S side of grassy clearing.	1137	25'
3080	Lone 30' spruce. Two small spruces 5M to SW.	1137	4'
3081	3' grey boulder on edge of grass line in clearing. Largest boulder in vicinity on top of bank.	1137	6'

Signal No.	Description	Photo No.	Height above MHW
3082	20' lone spruce, most southerly on island.	1140	7'
3083	20' spruce, leaning slightly to the W, most northwesterly on island.	1140	8'
3085	A 3' by 6' white boulder, about 15M to N of black strip of ledge and about 10M to W of woods line.	1370	10'
3086	20' spruce imbedded in ledge at edge of tree line. There is a bluff about 15M to N.	1370	6'
3087	Lone 20' spruce in group of alders. On edge of brush line.	1370	2'
3088	30' double spruce 8M to S of grass line. A few small spruces are to N at edge of grass line.	1370	7'
3089	Lone 15' spruce, most northwesterly on point, about 5M to N of grass line.	1370	6'3
3090	Lone 40' double spruce, leaning to W, on top of ledge bluff, at edge of brush line.	1140	5'
3091	15' spruce. Dead trunk about 40M to E in small cove.	1140	5'
3092	25' spruce on top of ledge bluff, about 100M to N of small cove. Another 25' spruce 1M to S. A dead trunk 5M to S.	1140	8'
3093	30' leaning spruce at edge of grass. Overhung with moss. Blazed on N. side.	1140	6'
3094	25' leaning spruce at edge of grass, most northeasterly in group of spruces on small neck. Dead trunk 1' to N.	1140	7'
3095	Lone 15' spruce. Another 15' spruce to N of station.	1140	5'
3096	Lone 25' spruce on point. A dead trunk is 8M to E.	1370	25'
3097	Lone 20' spruce at edge of grass. A group of 10' spruces is 45M to NE. There is a crevis in ledge to SE.	1370	5'
3098	40' spruce on westerly side of woods line. About 10M to N of boulder beach. Largest spruce in E side of cove.	1370	7'
3099	15' blazed spruce at edge of woods line on top of ledge bluff. There are 3 smaller and one larger spruces to W.	1370	30'
4548	7' spruce on NW part of island. Another 7' spruce 3 meters NE of station.	1169	10'

Signal Description No.		Photo. No.	Height above MHW
4549	Lone 5' spruce in SW part of gravel cove. A 4' gray boulder E of station.	1169	2'
4550	Lone 10' spruce on E part of island. 6' spruce 10 m. W of station and another 6' spruce 10 meters N of station.	1169	15'

Respectfully submitted

Albert C. Rauck, Jr.
 Albert C. Rauck, Jr.
 Engineering Draftsman

Approved and forwarded
 May 1948.

Thos B Reed
 Thos. B. Reed
 Officer in Charge
 Baltimore Photogrammetric Office

FIELD EDIT REPORT

TO ACCOMPANY

QUADRANGLE T-8648

JULY 1948

46 - METHODS

Field edit of this quadrangle was accomplished in accordance with Field Edit Instructions, dated 24 August 1945, Supplement 1, dated 4 February 1946, and Special Instructions issued just prior to field edit. Actual field work was performed by Donald G. Flippo (Contouring and vertical accuracy tests on north half) and George E. Varnadoe (All other) during the period 14 July to 29 July 1948.

The entire quadrangle, except for approximately 2.2 square miles in the northwest part, is comprised of islands, reefs and water. This area was worked with a launch and skiffs. It is believed that all reefs and rocks above M. L. W. were investigated, and where practicable at, or near, M. L. W.

Mr. Charles Cirone, the operator of the launch hired for this work, has fished in this area for twenty years. Advantage was taken of his knowledge during the investigation of the above.

Standard plane-table methods were employed for the contouring and vertical accuracy tests done by the field edit party and the work was done directly on the field edit sheet, except for Petit Manan and Green Islands, which were contoured on the photographs with a hand level. The M. H. W. L. ($\approx 5.5'$) was used for vertical control on all work except that discussed under item 48.

Refer to paragraphs 2 to 5 inclusive of Field Edit Report for quadrangle T-8641.

47 - ADEQUACY OF THE COMPILATION

The contours as plotted on Pond Island were found to be in error after running a vertical accuracy test to the peak of the island.

From close visual inspection of the Douglas Island group, just west of Pond Island, it was noted that twenty and twenty five foot bluffs fall below the twenty foot contour.

It is evident from elevations obtained by plane-table on Pond Island, having used M. H. W. L. ($\pm 5.5'$) for an initial elevation, that the horizontalization of the Multiplex Models for contouring the area by the Baltimore Office, was in error due to tilt in one or more Models.

It is therefore, suggested that the Baltimore Photogrammetric Office recontour the aforementioned islands utilizing elevations obtained from the test on Pond Island for horizontalizing their Multiplex Models, as it is believed that the contouring of these islands can be done more economically by the Multiplex than by plane-table since the area to be contoured is heavily wooded.

These islands were re-contoured. See Review Report.

48 - ACCURACY TESTS

Three vertical accuracy tests were made in this quadrangle. They were run on the following islands; Dyer, Pond and Bois Bubert. Standard plane-table methods were used and the work was done directly on the Field Edit Sheets

The test on Dyer Island was accomplished first. The plane-table was set up alongside photo-hydro station 2675 and oriented on triangulation station TRAFTON HALFTIDE LEDGE BEACON, 1913. Check cuts were taken to several identifiable photo-hydro stations on Tommy Island, Trafton Island and the mainland west of Dyer Island. All cuts to stations sighted fell on their respective plotted positions. The line was run across the island and tied in to photo-hydro station 3038. The horizontal closure was .5 mm. Vertical control was started from a previously established trigonometric point in the adjacent quadrangle to the north and closed on the M. H. W. L. ($\pm 5.5'$) on the opposite side of the island. Elevations were plotted on each form line crossed and were found to be within the accuracy required. Vertical closure was within 0.5 feet.

The test on Pond Island was started from a point near NARRAGUAGUS L. H., 1861. The starting position was obtained by declinatoire and stadia distance to NARRAGUAGUA L. H. The line was run to the peak of the island and closed on the starting point. Horizontal closure was less than plotting distance. Vertical control was started and closed on M. H. W. L. ($\pm 5.5'$). Vertical closure was within 0.5 foot. Results of this test prove the contours to be plotted in error more than the allowable limit. (see item 47). *Re-contoured*

The test on Bois Bubert Island was started from a trigonometric level point, elevation 128 feet, which could be identified, from the description, on the photograph and tied back to the same point. It was then continued to M. H. W. L. The closure on the trigonometric

level point was 0.2 foot and on M. H. W. L. was 0.4 foot. The horizontal closure was less than plotting distance. It is believed, from the results of this test, that the contours in this area are within the accuracy required.

The ground position of a pass point on Egg Rock was located by triangulation using the following stations: PETIT MANAN L. H. 1860. PETIT, 1945, DEAL, 1945, and JORDANS DELIGHT LEDGE BEACON, 1913.
See Review Report.

The aforementioned Mr. Charles Cirone, whose Post Office address is Addison, Maine, has examined the completed field edit sheet and no errors were found.

George E. Varnadoe

George E. Varnadoe
Topo. Engr.

TABULATION
OF
HORIZONTAL ACCURACY TEST

Project 272 F Quad. T-8648 Test applied by C.A.
 Scale of manuscript 1:10,000 Publication Scale 1:24,000
 Allowable horizontal displacement at manuscript scale 0.63 mm
 Method of testing Three-Point Fix

Description of Point	Latitude ° ' "	Longitude ° ' "	Displacement			REMARKS
			M.M.	Inch	Dir.	
Test Point Egg Rock (Pt. Radially plotted)	44° 24' - 776.5m (776)	67° 52' - 200.7m (200)	.41		SW	Well defined
<i>Notes: Scaled positions enclosed in paren (A.1)</i>						

Division of Photogrammetry
Review Report of
Topographic Map Manuscript T-8648

Subject numbers not used in this report have been adequately covered in other parts of the Descriptive Report.

26- Control

The flagstaff has been removed from the triangulation station "Pond Island, House, Cupola, Flagstaff, 1913." The station has been shown on the map manuscript as the topographic station "Cupola, 1913" and a 524 card has been prepared.

28- Detailing

The position of Mackerel Rock was obtained from previous hydrographic surveys. See Item 40 of this report. The position that was compiled on the map manuscript as the rock appears on only one photograph and is probably a blemish caused during development.

Several rocks ^{poor} ~~were~~ added from the hydrographic surveys) that do not appear on the photographs. Notes to the hydrographer, questioning the location and height of these rocks, have been added to the map manuscript.

The information concerning the positions of township boundaries through water areas is incomplete. The lines were moved during review to run half way between the land areas that they divide.

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31- Low Water and Shallow Lines

See Review Report for T-8647

34- Landmarks and Aids to Navigation

A Form 567 was prepared listing 4 aids to navigation and 2 landmarks to be retained on the nautical charts. The original was filed in the Nautical Chart Branch and a copy was made a part of this report.

34- Geographic Names

All names, including those added during Field Edit, have been approved by the Geographic Names Section.

40- Depth Curves and Soundings

Depth curves and soundings were added to the map manuscript by the Nautical Chart Branch from the following sources:

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H-1060	1:10000	1870
H-1398	1:40000	1878
H-1567b	1:10000	1883-1902
H-1528	1:10000	1882
H-1608	1:10000	1884-85

Chart letters dated 1910, 1912, and 1927.

43- Comparison with Existing Surveys

USGS Petit Manan Quadrangle	1:62500	1904 Repr. 1947
T-1496	1:10000	1881
T-1521	1:10000	1881-83
T-1524	1:10000	1881

Common features on all previous surveys are superseded by the map manuscript in common area.

44- Comparison with Nautical Charts

Chart No. 1201	1:80000	1941 Corr. 1948
305	1:40000	1931 Corr. 1946

The MHWL is shown in a different position on the map manuscript than on the chart ~~particularly~~ in the vicinity of Egg Rock and Petit Manan Islands.

Several lobster pounds and fish traps have not been shown on the chart.

48- Accuracy Tests

See Field Edit Report for results of a profile run across Dyer Island and a check of the peak elevation on Pond Island. Pond Island and the Douglas Islands were re-contoured in the Baltimore Office using the additional information supplied by the Field Edit Party.

The position of a point on Egg Rock determined by the radial plot and the position obtained in the field by a three point fix check within the required accuracy.

This map complies with the national standards of map accuracy requirements.

49- Overlays

An overlay was prepared showing the border information, road classification and destinations, triangulation stations, topographic stations, landmarks and aids to navigation, and spot elevations that are to be shown by the smooth draftsman.

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51- Application to Nautical Charts

The map manuscript has not been applied to the nautical charts.

Reviewed by:

Charles Theurer
C. Theurer 3-11-49

Approved by:

S. V. Griffith
Chief, Review Section K.H.M.

H. C. McMaster
Chief, Nautical Chart Branch
Division of Charts

K.T. Adams
Chief, Division of Photogrammetry

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Chief, Div. of Coastal Surveys

T-8648

Record of Work Subsequent to the Manuscript Review,
that is, Smooth Drafting, Checking, and Printing

Manuscript forwarded to the U. S. Geological
Survey for smooth drafting and publication.

Color proof furnished by the Geological Survey and
examined by _____

Name

Date

Published by the Geological Survey.