

# 8515

1204-2

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Topographic (Quadrangle)
Field No.	Office No. T-8515
LOCALITY	
State	Maine
General locality	Casco Bay
Locality	Bailey Island (Quadrangle)
1943	
CHIEF OF PARTY	
Lieut. Comdr. F. L. Gallen	
LIBRARY & ARCHIVES	
DATE	September 8, 1948

8515

## DATA RECORD

T-8515

Quadrangle (II): Bailey Island

Project No. (II): 303B

Field Office:

Chief of Party: F. L. Gallen

Compilation Office: Washington  
Office

Chief of Party: R. W. Knox

Instructions dated (II III):

May 1, 1943 and August 31, 1943

Copy filed in Descriptive  
Report No. ~~2~~ (VI)  
Div. of Photogram. Office Files

Completed survey received in office: 28 Dec. 1943

Reported to Nautical Chart Section:

Reviewed: 27 Jan. 1944 Applied to chart No. 315 Date: Apr 1945-jw

Redrafting Completed: 15 Feb. 1944

Registered: ~~27 April~~ August 1944

Published: 1944

Compilation Scale: 1:20,000

Published Scale: 1:25,000

Scale Factor (III):

Geographic Datum (III): N.A. 1927

Datum Plane (III): Mean Sea Level

Reference Station (III): Ragged Island, 1854 (d.m.)

Lat.:  $43^{\circ}43'40''.129$  Long.:  $69^{\circ}56'16''.035$  Adjusted  
                     1238.5m                      358.9m Unadjusted  
                     (613.3m)                      (988.0m)

State Plane Coordinates (VI):

X = None 560,502.36  
Maine - W. Zone

Y = 326,102.28

Military Grid Zone (VIh)

Special Harbor Defense Grid  
and  
Military Grid Zone A

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
6641	10-17-41	9:33 A.M.	1:10,000	
6761; 6762	10-17-41	12:12 P.M.	1:10,000	1.8' above M.L.W.
6806 - 6809	10-17-41	1:09 P.M.	1:10,000	0.6' " M.L.W.
6838 - 6840	10-17-41	1:48 P.M.	1:10,000	0.2' " M.L.W.

Tide from (III):

Mean Range: 8.8 ft.

Spring Range: 10.1 ft.

Camera: (Kind or source) Nine-Lens

Field Inspection by: See Descriptive Report

date:

Field Edit by: Allen C. Murphy and  
L. G. Chambers

date: Oct., 1943  
Nov., 1943

Date of Mean High-Water Line Location (III):

Projection and Grids ruled by (III) Ruling Machine date:

" " " checked by: date:

Control plotted by: Under direction of D.H. Benson date: Sept. 1943

Control checked by: Under direction of D.H. Benson date: Sept. 1943

Radial Plot by: ) date:

L. V. Evans and  
Frances Johnson

Detailed by: ) date:

Reviewed in compilation office by: date:

Elevations on Field Edit Sheet  
checked by: L. G. Chambers

date: Nov., 1943

STATISTICS (III)

Land Area (Sq. Statute Miles): *1 square Mile*

Shoreline (More than 200 meters to opposite shore):

Shoreline (Less than 200 meters to opposite shore):

Number of Recoverable Topographic Stations established: *2*

Number of Temporary Hydrographic Stations located by radial plot: *none*

Leveling (to control contours) - miles:

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

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

When entering names of personnel on this record give the surname

and initials (not initials only).

Remarks:

**COMPILATION REPORT  
TO ACCOMPANY  
SHEET NO. T-8515**

The manuscript for T-8515 was compiled in the Washington Office from planimetric maps made by the Coast and Geodetic Survey with photographs taken in 1941 and compiled in 1942, and surveys by the U. S. Geological Survey between 1940 and 1942. The steps in the compilation process were as follows:

1. The polyconic projection was ruled on celluloid with the projection ruling machine.
2. All shoreline details were compiled from planimetric map T-5970. This map was reduced from the original scale 1:10,000 to 1:20,000.
3. Interior details were next taken from U. S. Geological Survey multiplex sheets. These sheets contained planimetry only and were compiled in the multiplex at scale 1:15,840. They were reduced from that scale to 1:20,000.
4. These contour surveys were made by planetable on the multiplex sheets referred to above, but at the reduced scale of 1:48,000. The planetable sheets were enlarged to 1:20,000 and the contours traced onto the manuscript T-8515.
5. The U. S. Geological Survey contour surveys by planetable included additions and corrections to the planimetry done on the multiplex at 1:15,840. The U. S. Geological Survey planetable work was accomplished at scale 1:48,000. Therefore, while the multiplex compilation when reduced to 1:20,000 was basically within the horizontal accuracy requirements for T-8515, the corrections and additions to planimetry made by planetable were not necessarily so because of the enlargement. To insure the required horizontal accuracy all planimetric details were checked against the U. S. Coast and Geodetic Survey 1:10,000 planimetric map T-5970 and corrected as necessary. T-5970 as originally compiled included shoreline only. The interior planimetry on this sheet was completed in the Washington Office by L. V. Evans

and Frances Johnson in October, 1943 using the nine-lens photographs listed in the "Data Record". These sheets were then reduced to 1:20,000 scale and used to correct the planimetry on T-8515 as stated in the first part of this paragraph.

The field edit survey following the compilation of the manuscript will include horizontal and vertical accuracy tests. Corrections and additions noted by the field edit to either planimetry or contours will be made either on a printed copy of the manuscript or on the 1:10,000 scale field photographs. Any corrections noted on the photographs will be compiled onto the manuscript in the Washington Office during the review.

#### 26. CONTROL

The control for plotting done in the Washington Office was the same as discussed in Descriptive Report T-5970.

#### 27. RADIAL PLOT

Refer to Descriptive Report T-5970. In completing interior details in the Washington Office the main radial plot as made on the original sheet was accepted and used to control the detailing, additional points being put in as needed.

#### 28. DETAILING

The interior details as completed in the Washington Office were drawn without prior field inspection and are subject to additions of buildings and other details which may have been obscured by trees. However, this compilation work was supplemented to some extent by referring to the U. S. Geological Survey sheets which had been field edited at the 1:48,000 scale.

Since there was no prior field inspection the following details will be classified and clarified during the field edit in accordance with supplemental instructions dated August 31, 1943:

1. Highways and roads
2. Bridges
3. Woods
4. Buildings

29. SUPPLEMENTAL DATA

See preceding paragraphs.

30 to 36.

Covered in the Descriptive Report for T-5970.

Prepared under direction of B. G. Jones,  
Sr. Cartographic Engineer

R. W. Knox  
Chief, Surveys Branch

Field Edit Report  
To accompany  
Quadrangle T-8515  
Project 303-B

46. See report for Quadrangle T-8510.
47. See report for Quadrangle T-8510.
48. Accuracy tests, both vertical and horizontal, are the subjects of special reports on Project 303-B.
5. See report for Quadrangle T-8510, sub-heading 5-A.
49. All junctions with contemporary surveys have been checked.

Approved and Forwarded,



F. L. Gallen  
Chief of Party

Submitted by,



L. G. Chambers  
Prin. Photo. Aid.



T-8515

CONTROL

Triangulation:

Sheep, 1933  
Will, 1933  
Ragged Island, 1854      r. 1933  
Jamison Ledge Bcn 1911      r. 1933  
Merkus, 1933  
Beef, 1933  
Bailey Island Windmill, 1933  
Starr, 1933

Topographic & Hydrographic:

Bull, 1933  
West Gable of White House (Ragged Island), 1942  
Zulu (plotted on manuscript from graphic control T-6851  
43° 43' 1234.8m/69° 59' 1226.3m.)

Bench Mark:

U.S.G.S. 17M.    11.66'

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8515

BAILEY ISLAND, ME. QUADRANGLE

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be necessary in this office are discussed on the next page.

Horizontal and Vertical Accuracy Tests. None on this map manuscript.

Horizontal tests on 8509 to the north, and 8516 to the east.

Vertical tests. One test on each of the surrounding maps - 8509, 8514, 8516.

These tests indicate maps of standard accuracy.

Previous Surveys

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area.

T- 847	1/10000	1861	H-6732	1/10000	1943
6851	"	1941	6783	"	1942 WD
6928a	"	1942	6809	"	1942
6928b	"	1942	6810	1/20000	1942
6929a	"	1942			
6929b	"	1942			

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No corrections for H-sheets

U.S.G.S. Small Point	1/62500	1943
U.S.E. Small Point	"	1919, 1921

Comparison with Nautical Charts Nos. 1204 1/80000 1943

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts:

No immediate corrections necessary

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

Topographic Station ZULU was plotted on the manuscript from graphic control T-6851.

Seven small ledge areas were added to the manuscript, six of them with MLW elevation data.

This report was written from notes on a check list made during the process of review. LTS, 27 Apr., 1948)

Reviewed 27 Jan. 1944

By

*Zach E. Schwaner*  
Z. Schwaner

under direction of D. H. Benson

*per LTS*

Inspected by B. G. Jones

*B. G. Jones 8/48*

Examined and approved:

*[Signature]*  
Chief, Surveys Branch

*K.T. Adams*  
Chief, Div. of Charts

*[Signature]*  
Chief, Topography Section

*E. K. Green*  
Chief, Div. of Coastal Surveys

## RECORDS

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

### Registered and Filed in the Vault.

Cloth-mounted copy of the published quadrangle.

Black and white cloth-mounted copy of the published quadrangle at 1:20,000 scale. This copy is filed to preserve original survey detail shown on the manuscript at 1:20,000 scale which may not have been shown on the published sheet. For woodland, refer to the published quadrangle for the finally adopted outlines.

Descriptive Report.

### Filed in the Photogrammetric Division.

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Review Section.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and tabulations of results of horizontal and vertical accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in red changes to be made when next printed.)

Check lists of work performed on each sheet in the Washington Office during review, drafting, edit, and reproduction.

Copies of specifications and all instructions to field parties and field offices.

Filed in Reproduction Branch.

Glass negatives of the color separation drawings.

Filed in the Library.

Special report on office work by B. G. Jones, 1944.

Season's report on field work by Commander F. L. Gallen, 1944.

Season's report on field work by Commander R. L. Schoppe, 1944.

Delivered to the Army Map Service in accordance with the contract.

Film negatives and film positives of the color separation drawings.

All color separation drawings.

A correction sheet consisting of a copy of the first edition of the quadrangle with notes in red indicating changes desirable at the next printing.

T-8515

1  
Decisions

Remarks

1		
2		
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4		
5		USGB
6		437698
7		"
8		"
9		"
10		437699
11		"
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# GEOGRAPHIC NAMES

Survey No. T-8515

BAILEY ISLAND quadrangle

1	Name on Survey	A. On Chart No.	B. On previous survey No.	C. On U. S. quadrangle Maps	D. From local information	E. On local Maps	F. P. O. Guide or Map	G. Rand McNally Atlas	H. U. S. Light List	K.
	Cumberland County	✓								1
	Sagadahoc County	✓								2
	Phippsburg	✓		(Town of, Sagadahoc Co.)						3
	Harpwell	✓		(Town of, Cumberland County)						4
	Casco Bay	✓								5
	Jamison Ledge	✓		(Covered at high water)						6
	East Brown Cow	✓								7
	Mark Island	✓								8
	Flag Island	✓								9
	Mark Island Ledge	✓		(covered at high water)						10
	David Castle	✓	"	"						11
	Sisters	✓		bare rocks						12
	Blacksnake Ledge	✓		(covered at high water)						13
	Saddleback Ledge	✓	"	"						14
	Ragged Island	✓								15
	White Bull	✓		(island)						16
	Little Bull Ledge	✓		(covered at high water)						17
	Bold Dick	✓	"	"						18
	Round Rock	✓	"	"						19
	Middle Ground Rock	✓	"	"						20
	Yellow Rock	✓		bare rock						21
	Cedar Ledge	✓		(Covered at high water)						22
	Ram Island	✓								23
	Pond Island	✓		(not islands)						24
	Pond Island Ledges	✓		(covered at high water)						25
	Bailey Island	✓								26
	Bailey Island	✓		(village)						27

## Remarks

## Decisions

1	Pending with USGB	437699
2	" "	"
3	" "	"
4		437700
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# GEOGRAPHIC NAMES

Survey No. T-8515

2	Name on Survey	On Chart	On previous survey	On U. S. quadrangle	From local	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
		A.	B.	C.	D.	E.	F.	G.	H.	K.
	<u>Wills Strait</u>	✓								1
	<u>Orr Island</u>	✓								2
	<u>Water Cove</u>	✓								3
	<u>Jaquish Gut</u>	✓	(not Gut)							4
	<u>Mackerel Cove</u>	✓								5
	<u>Mericonag Sound</u>	✓								6
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Names underlined in red approved  
by L. Heck on 2/21/44