

# 8508

Diag'd. on Diag. Ch. No. - 1204-2

Form 504

## U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

### DESCRIPTIVE REPORT

Type of Survey Topographic (Quadrangle)

Field No. CS-303-B Office No. T-8508

#### LOCALITY

State Maine

General locality Casco Bay

Locality Freeport Quadrangle

1941-43

#### CHIEF OF PARTY

F. L. Gallen

#### LIBRARY & ARCHIVES

DATE May 24, 1949

B-1870-1 (1)

# 8508

## DATA RECORD

T- 8508

Quadrangle (II): Freeport

Project No. (II): 303B

Field Office:

Chief of Party: F. L. Gallen

Compilation Office: Washington

Chief of Party: R. W. Knox

Instructions dated (II III):

May 1, 1943 and August 31, 1943

Copy filed in <sup>Division of</sup> Descriptive  
~~Report No. T~~ (VI)  
 Photogrammetry Office Files

Completed survey received in office: 28 Dec. 1943

Reported to Nautical Chart Section:

Reviewed: 2/25/44

Applied to chart No.

3201

Date: Jan to Apr 1945

201

Redrafting Completed: 11 April, 1944

315

"

Registered: 13 Oct. 1948

Published: May 1945

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): SWAN 1933

Lat.:  $43^{\circ}49'05".342$  Long.:  $70^{\circ}03'32".460$ 

Adjusted  
 Unadjusted

State Plane Coordinates (VI): ~~None~~

Maine State Grid - West Zone (not on pub. map.)

X = 528,413.61 ft.

Y = 358,965.97 ft.

Military Grid Zone (VI)

Special Harbor Defense Grid  
 and  
 Military Grid Zone A

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
6711 - 6715	10-17-41	10:53	1:10,000	4.4' Above M.L.W.
6767 - 6773	10-17-41	12:21	1:10,000	1.5' " " "
6693	10-17-41	10:34	1:10,000	5.2' " " "
6685 - 6690	10-17-41	10:26	1:10,000	5.5' " " "
6677 - 6683	10-17-41	10:15	1:10,000	6.2' " " "
6650 - 6653	10-16-41	9:46	1:10,000	6.7' " " "

Tide from (III): *Predicted tables for PORTLAND, ME.*  
*Time correction to CHEBEAG PT. (Great Chebeag Island)*  
 Mean Range: 9.0 ft. Spring Range: 10.4 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):  
*See Desc. Reports for T-5962, T-5963, & T-5964, from which the shoreline on T-8508 was compiled.*

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 *Map Manuscript* ~~Field Edit Sheet~~  
 checked by: L. G. Chambers date: Nov., 1943

STATISTICS (III)

Land Area (Sq. Statute Miles);

Shoreline (More than 200 meters to opposite shore);

Shoreline (Less than 200 meters to opposite shore);

Number of Recoverable Topographic Stations established; *No new recoverable topo stations were established during the compilation of T-8508. For topo stations in this area see surveys T-5962, T-5963, & T-5964 (1:10,000, 1942)*

Number of Temporary Hydrographic Stations located by radial plot; *None - see note above.*

Leveling (to control contours) - miles; *The contours on T-8508 were compiled from U.S. Geological <sup>Survey</sup> Planetable surveys (done in 1940-42 at a scale of 1:48,000), by using the planimetry obtained from U.S.C. & G.S. surveys T-5962, T-5963, and T-5964 to control the horizontal position of the contours.*  
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-8508**

The manuscript for T-8508 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 maps T-5962, T-5963, and T-5964. These maps were reduced from the original scale 1:10,000 to 1:20,000.
3. Interior details were next taken from the U. S. Geological Survey aero-cartograph sheet for the Freeport fifteen-minute quadrangle. This map sheet was plotted at approximately 1:32,000. The sheet contained planimetry only and was enlarged to 1:20,000 for compilation onto this manuscript.
4. These contour surveys were made by planetable on the aero-cartograph sheet 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-8508.
5. Since the aero-cartograph planimetric base of the Geological Survey work in this area was at an original scale of approximately 1:32,000, it was not considered to be of sufficient accuracy to meet the horizontal accuracy requirements for T-8508 (1:20,000). To insure the required horizontal accuracy all planimetric details were checked against the U. S. Coast and Geodetic Survey 1:10,000 planimetric maps T-5962, T-5963, and T-5964 and corrected as necessary. T-5962, T-5963, and T-5964 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-8508 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 Reports T-5962, T-5963, and T-5964. *Graphic Control Surveys 6893b; 6845b; 6848a; 6850; 6851; 6929a (1941) were used to locate marked topographic stations.*

#### 27. RADIAL PLOT

Refer to Descriptive Reports T-5962, T-5963, and T-5964. In completing interior details in the Washington Office the main radial plot as made on the original sheets 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 Reports for T-5962,  
T-5963, and T-5964.

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

R. W. Knox,  
Chief, Surveys Branch

Field Edit Report  
To accompany  
Quadrangle T-8508  
Project 303-B

46. The report for Quadrangle T-8510 will apply to this area except that additions and deletions have been noted on the compilation as well as the photographs and are complete as shown.

47. It is believed that the compilation will be complete and accurate when the noted additions and deletion have been made. ✓

Additional secondary drainage was delineated on the photographs and transferred to the compilation. This was accomplished by tracing the drainage, as determined by stereopsis on the photographs, and then transferring it to the compilation by adjusting the tracing to the nearest planimetric detail.

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. Contours in the south-east corner have been changed slightly to check with surveys on T-8514. A plane table was used for the field work.

Approved and forwarded,

*F.L. Gallen*

F.L. Gallen  
Chief of Party.

Submitted by,

*L.G. Chambers per F.L.*

L.G. Chambers  
Prin. Photo. Aid.



WAR MAPPING PARTY NO. 1  
VERTICAL ACCURACY TEST

PROJECT CS-303-B

TRAVERSES NOS. 1-2

QUADRANGLE T-8508

Two vertical accuracy traverses were run on this quadrangle. Both traverses are closed traverses by planetable and stadia, with horizontal closures of 10 meters or less, and vertical closures of one foot or less. The horizontal and vertical control points are shown on the compilation with notations at the "take-off" and "tie" points.

The areas tested show over 90% of the contour elevations within  $\frac{1}{2}$  contour interval of their true geographic positions without any horizontal shift.

Traverse No. 1: This traverse checked with the contours in this area. The only points in question are MM, SS, and RR where the terrain drops from a steep, irregular bluff to the water. The contours here could be more accurately shaped but they are within the horizontal accuracy requirements. *Manuscript Corrected in review*

Traverse No. 2: Points E, F, and K were elevations obtained in the bottom of the same drain. This drain is misplaced and misshaped on the compilation. The 100 foot and 80 foot contours have been reshaped in this locality in red ink. In the vicinity of positions NN, MM, LL, and KK the hill has a much steeper angle of rise than that shown on the compilation. The contours are within the horizontal accuracy requirements but not within the vertical requirements. This is apparently only a minor, local error. These contours should be shifted twenty meters to the ~~northwest~~<sup>SE</sup> to bring them within the vertical accuracy requirements. *Manuscript Corrected in Review*

The shaping of the contours on this quad could be accomplished with greater accuracy if more secondary drainage were shown on the compilation. This condition seems to exist throughout the quad.

Recommendation:

It is recommended that the contours in this quadrangle be accepted as complying with the National Standard Map Accuracy requirements.

Approved and forwarded by:

F. L. Gallen  
Chief of Party

Submitted by:

*Joe N. Henningsen*  
Joe N. Henningsen  
Assistant Photo. Engr.

## Remarks

## Decisions

1		
2		
3		Road Maps
4		"
5		Railway Guide
6		
7		437700
8		"
9		437699
10		437700
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19	Pending with USGB: order also Chebeague Point	"
20		"
21		"
22		"
23		"
24		"
25		" USGB
26		" "
27		"



# GEOGRAPHIC NAMES

Survey No. T-8508

FREEPORT quadrangle

1 Name on Survey

	A	B	C	D	E	F	G	H	K	
<u>Cumberland County</u> ✓	✓									1
<u>Towns of Harpswell, Cumberland, Yarmouth, Freeport, Brunswick</u> ✓	✓	✓	✓	✓	✓	✓	✓			2
<u>U.S. No. 1</u> ✓										3
<u>State No. 136</u> ✓ (northward from Freeport)										4
<u>Maine Central R.R.</u> ✓										5
<u>State No. 123</u> ✓										6
<u>Harpswell Neck</u> ✓										7
<u>Harpswell Harbor</u> ✓										8
<u>Stover Point</u> ✓										9
<u>Stover Cove</u> ✓										10
<u>West Harpswell</u> ✓										11
<u>Ash Point Cove</u> ✓										12
<u>Curtis Cove</u> ✓										13
<u>Basin Cove</u> ✓										14
<u>Peter Cove</u> ✓										15
<u>Barnes Island</u> ✓										16
<u>Whaleboat Island</u> ✓										17
<u>Little Whaleboat Island</u> ✓										18
<u>Chebeag Point</u> ✓	✓									19
<u>Upper Green Islands</u> ✓	✓									20
<u>Great Moshier Island</u> ✓	✓									21
<u>Crab Island</u> ✓	✓									22
<u>Crab Island Ledge</u> ✓	✓									23
<u>French Island</u> ✓	✓									24
<u>Little Bustins Island</u> ✓	✓									25
<u>Bustins Island</u> ✓	✓									26
<u>Bustins Island</u> (village) ✓	✓									27

T-8508

	Remarks	2 Decisions
1	Pending with USGB	437700
2		"
3		"
4		"
5		"
6		"
7		"
8		438700
9		"
10		"
11		"
12		"
13	Pending with USGB: only question is whether it is Mare or Mere	"
14	"	"
15	"	"
16	"	"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"



# GEOGRAPHIC NAMES

Survey No. T-8508

2	Name on Survey	A	B	C	D	E	F	G	H	K	
✓	Bustins Ledge ✓										1
✓	Lower Goose Island ✓										2
✓	The Goslings ✓	(islets or rocks)									3
✓	Irony Island ✓										4
✓	Grassy Ledge ✓										5
✓	Whites Point ✓										6
✓	Shelter Island ✓										7
✓	Brant Ledges ✓										8
✓	Middle Bay ✓										9
✓	Black Rock ✓										10
✓	Birch Island ✓										11
✓	Birch Island ✓	(village)									12
✓	Mare Point Neck ✓										13
✓	Mare Point Bay ✓										14
✓	Mare Point ✓										15
	Mare Point Memorial Park		?								16
✓	Maquoit Bay ✓										17
✓	Bunganuc Rock ✓										18
✓	Bunganuc Landing ✓										19
✓	Upper Goose Island ✓										20
✓	Branning Ledge ✓										21
✓	Little Flying Point ✓										22
✓	Flying Point ✓	as on chart 315)									23
✓	Sister Island ✓										24
✓	Sister Island Ledge ✓										25
✓	Williams Island ✓										26
✓	Pettingill Island ✓										27

M 234

## Remarks

1		438700
2		"
3		"
4		"
5		"
6		"
7		"
8		
9		
10		438700
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		438701
21		438701
22		"
23		"
24		"
25		"
26	Pending with USGB, but almost certain to be approved in this form	"
27		"



# GEOGRAPHIC NAMES

Survey No. T-8508

GEOGRAPHIC NAMES											
Survey No. T-8508											
		On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
Name on Survey		A	B	C	D	E	F	G	H	K	
✓	<u>Sow and Pigs</u> ✓	(rocks)									1
✓	<u>Googins Ledge</u> ✓										2
✓	<u>Little River</u> ✓										3
✓	<u>Wolf Neck</u> ✓										4
✓	<u>Bartol Island</u> ✓										5
✓	<u>Weston Point</u> ✓										6
✓	<u>Mast Landing</u> ✓										7
Following names are approved, location must wait until Names Sheet is returned from Baltimore:											8
											9
✓	<u>Bunganuc Brook</u> ✓										10
✓	<u>Woodside Brook</u> ✓										11
✓	<u>Woodside Road</u> ✓										12
✓	<u>Bunganuc Road</u> ✓	(on manuscript)									13
✓	<u>Kelsey Brook</u> ✓										14
✓	<u>Kelsey Hill</u> ✓										15
✓	<u>West Branch Haraseeket River</u> ✓										16
✓	<u>East Branch Haraseeket River</u> ✓										17
✓	<u>Pleasant Hill</u> ✓										18
✓	<u>Bartol Hill</u> ✓										19
✓	<u>Winston Hill</u> ✓										20
✓	<u>Freeport</u> ✓										21
✓	<u>Pownal Road</u> ✓	(on manuscript)									22
✓	<u>Beech Hill Road</u> ✓	"	"								23
✓	<u>Porter Landing</u> ✓										24
✓	<u>Moore Point</u> ✓										25
✓	<u>Haraseeket River</u> ✓										26
✓	<u>South Freeport</u> ✓										27

M 234

## Remarks

4  
Decisions

1		438701
2	Pending with USGB for location	"
3		"
4		"
5		"
6		"
7		437701
8		"
9		"
10		"
11		"
12		"
13	Pending with USGB for Ohbeag versus Chebeague: order both forms pending decision	"
14	for each of these two names.	"
15		
16		
17		
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19		
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24		
25		
26		
27		



# GEOGRAPHIC NAMES

Survey No. T-8508

4	Name on Survey	A	B	C	D	E	F	G	H	K	
✓	<u>Spar Cove</u> ✓										1
✓	<u>Staple Point</u> ✓	(at location of chart 815)									2
✓	<u>Stanle Cove</u> ✓										3
✓	<u>Stockbridge Point</u> ✓										4
✓	<u>Pound of Tea</u> ✓										5
✓	<u>Bowman Island</u> ✓										6
✓	<u>Lanes Island</u> ✓										7
✓	<u>Little Moshier Island</u> ✓										8
✓	<u>Old Tom's Rock</u> ✓										9
✓	<u>Cornfield Point</u> ✓										10
✓	<u>Cousins Island</u> ✓	(very little on this quad.)									11
✓	<u>Littlejohn Island</u> ✓										12
✓	<u>Great Chebeag Island</u> ✓										13
✓	<u>Chebeag Island</u> ✓	(village)									14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27

Names underlined in red approved  
by L. H. H. on 4/1/44

M 234

Names underlined in red approved  
by L. H. Hock on 4/1/44

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T- 8508

FREEPORT QUADRANGLE, MAINE

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

Horizontal: The horizontal accuracy test run on this quadrangle disclosed a maximum error of 0.48mm.

Vertical: A report on the two tests made for this quadrangle is attached to this descriptive report.

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-5962, T-5963, T-5964 1/10000 1942 which served as a preliminary base for the present survey.

H-6728, H-6731 1/10000 1941-43; H-6732 1/10000 1941.  
Off-shore rocks from these surveys were transferred to the above planimetric maps, and thus to the present survey.

U.S.G.S. Freeport, Me. 1/62500 <sup>1941</sup>~~1891~~ used as preliminary base for topography. (201, 315, 1/40000  
1204 1/80000

Comparison with Nautical Charts Nos. 3201

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:

*copies of original compilation at 32,000  
and original contours at 1:48,000  
were used as a base, not  
the published quad*

*KTA*

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

Review report assembled from notes left by reviewer. LTS

Reviewed \_\_\_\_\_ By Mr. D. Harris *hrt/s*  
under direction of D. H. Benson 25 Feb. 1944

Inspected by B. G. Jones

*B. G. Jones 5/49*

Examined and approved:

*[Signature]*  
Chief, Surveys Branch

Chief, Div. of Charts

K. T. Adams  
Chief, Topography Section  
Division of Photogrammetry

*[Signature]*  
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.