

8516 ✓

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-8516

LOCALITY

State Maine

General locality Casco Bay

Locality Small Point Quadrangle

1943

CHIEF OF PARTY

Lieut. Comdr. F. L. Gallen

LIBRARY & ARCHIVES

DATE September 8, 1948

B-1870-1 (1)++

8516

DATA RECORD

T- 8516

Quadrangle (II): Small Point

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):

Copy filed in Descriptive
Report No. T- (VI)

May 1, 1943 and August 31, 1943

Completed survey received in office: 28 Dec. 1943

Reported to Nautical Chart Section:

Reviewed: 29 Jan. 1944 Applied to chart No. 315 Date: Apr 1945 - JFW

Redrafting Completed: 23 Feb. 1944

Registered: 29 April, 1948

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): Cape Small North Water Tower, 1933

Lat.: 43° 43' 25.725" (794.0 m) Long.: 69° 50' 19.645" (437.7 m) Adjusted
Unadjusted

State Plane Coordinates (VI):

X = None

Y =

Military Grid Zone (VI)

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>
6836 - 6838	10-17-41	1:43	1:10,000	0.1
7005 - 7008	10-20-41	8:54	1:10,000	9.3
7036 - 7039	10-20-41	9:22	1:10,000	9.9

Tide from (III):

Mean Range: 8.8

Spring Range: 10.1

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):

Mean high water line revised to date of Field Edit.

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);

Shoreline (More than 200 meters to opposite shore);

Shoreline (Less than 200 meters to opposite shore);

Number of Recoverable Topographic Stations established;

Number of Temporary Hydrographic Stations located by radial plot;

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-8516**

The manuscript for T-8516 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-5971. 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-8516.
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-8516, 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-5971 and corrected as necessary. T-5971 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". This sheet was then reduced to 1:20,000 scale and used to correct the planimetry on T-8516 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-5971.

27. RADIAL PLOT

Refer to Descriptive Report T-5971. 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-5971.

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

R. W. Knox,
Chief, Surveys Branch

Field Edit Report
To accompany
Quadrangle T-8516
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 Projects 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,

Submitted by,

F. L. Gallen

F. L. Gallen
Chief of Party

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

L.G. Chambers
Prin. Photo. Aid.

T-8516

CONTROL

Triangulation (on published map)

Gillies 1933
Bald Head, 1854
Morse, 1852
Popham, USE, (no date)
Salter, USE, 1933
Pond Is.. Lighthouse, 1903
Wood, USE, 1942
Hunniwell Beach Prom. Flagpole, 1933
North Fox, USE, (fire control), 1942
Cape Small North Water Tower, 1933
Bald Head Ledge Bn. 1933
Seguin Lighthouse, 1933
Fuller Rock Lighthouse, 1941
(This is not a lighthouse, but a white
skeleton tower about 15' high)
South Sugar, USE, (fire control)

Triangulation (on manuscript but not on published map)

Hawley, USE
Log Cabin, USE
Dune, USE
East Base, USE
West Base, USE, (fire control)
Pond, USE
Pond Island, USE, (fire control)
Pivot Surf, USE
Wood Island, USE, (fire control)
Seguin, USE, (fire control)
Jack Rock Beacon, 1904 (put on valut copy of map
at time of registration)

H & T Stations (No forms 524 were found at time of registration)

ZING (Scaled from Graphic Control sheet T-6928B)
ABE " " " " T-6910A)
WATER TOWER

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T- 8516

SMALL POINT, 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.

Horizontal (see page 2 of this review report)

Vertical: "Over 90% of the contour lines were within $\frac{1}{2}$ contour interval of the true geographic position..."

The map meets the National standard of 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-465	1/10000	1854-7
587	"	1856
588	"	1856

U.S.G.S.	Small Point	1/62500	re 1943921
U.S.E.	Small Point	1/62500	rep 1921

Comparison with Nautical Charts Nos. 1204, 1/80000 Jan, 1944

314 1/40000 1935
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:

Changes have occurred in the shoreline and in the topographic detail, which should be noted at the time of the printing of the next chart.

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

A point in the horizontal accuracy test showing a displacement of 0.71mm NW was found to be due to faulty detailing. By taking new cuts to the point of detail used in the test, the point was placed in its true position.

Many alterations to secondary drainage were made. These were made from field edit information, which was checked by stereoscopic examination during review.

Contours changed to conform to the data of the vertical accuracy test.

This review report has been written from notes made on the check list at the time of review. LTS, Apr. 1948)

Reviewed 29 Jan. 1944 By M. V. Parker
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 *Shobgenmity*

Chief, Topography Section
Naval chart branch

C. H. 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.

Remarks

Decisions

1		
2		
3		
4		Road Maps
5		"
6		USGB
7		
8		436698 USGB
9		"
10		437697
11		"
12		"
13		"
14		"
15		"
16		"
17		" USGB
18		"
19		"
20		"
21		"
22	Pending with U.S.G.B. see #2, line 4 (Old Ice Pond)	"
23	" " " " #2, line 3 (Fort Hill)	"
24		"
25		"
26		" USGB
27		

GEOGRAPHIC NAMES

Survey No. T-8516

SMALL POINT 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.
✓	Sagadahoc County									1
	Town of Phippsburg									2
✓	Town of Georgetown									3
✓	State Road No. 216	(to Small Point and Small Point Beach								4
✓	" No. 209	(to Popham Beach: little if any of it on this quadrangle)								5
✓	Casco Bay	Cape Small is its eastern limit)								6
										7
✓	Fuller Rock									8
✓	Bald Head Ledge	(bare at half tide)								9
✓	Sequin Island									10
✓	Ellingwood Rock									11
✓	Sequin Ledges	(partly bare at all times)								11
✓	Whaleback Rock									12
✓	Salter Island									13
✓	Stage Island Bay									14
✓	Stage Island									15
✓	South Sugarloaf	(rocky islet)								16
✓	Kennebec River									17
✓	Pond Island									18
✓	Wood Island									19
✓	Popham Beach									20
✓	Hunniwell Beach									21
✓	Silver Lake	OK.								22
✓	Sabino Hill									23
✓	Morse Point									24
✓	Fox Islands									25
✓	Atkins Bay									26
										27

Remarks

Decisions

1		
2		437697
3	Same as Sabino Hill, (#1, line 23)	"
4	Same feature as Silver Lake (#1, line 21)	"
5		
6		437698
7		"
8		"
9	Pending with U.S.G.B.	"
10		"
11		"
12		"
13		"
14		"
15		"
16	Pending with U.S.G.B.: Same as Cape Small Pond (#3, line 25)	"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8516

2	Name on Survey	A.	B.	C.	D	E	F	G	H	K	
	Three following names should be ordered, to be applied when name sheet is returned from Baltimore:										1
✓	Fort Baldwin										2
✓	Fort Hill OK										3
✓	Old Ice Pond										4
											5
✓	Spirit Pond										6
✓	Campbell Island										7
✓	Morse River										8
✓	Morse Hill (not Little Mtn.)										9
✓	Heron Island										10
✓	Bold Dick Rock. (submerged at high water)										11
✓	Srague River										12
✓	Morse Lit.										13
✓	Small Point (village)										14
✓	Small Point Beach (village: omot Cliffstone)										15
✓	Big Pond										16
✓	Island										17
✓	Island Point										18
✓	Seal Cove										19
✓	Seal Island										20
✓	Small Point (point)										21
✓	Cape Small										22
✓	Bald Head										23
✓	Bald Head Cove										24
✓	Head Cove										25
✓	Head Beach										26
✓	Gooseberry Island										27
✓	Gooseberry Island Ledge (awash at low water)										28

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T-8516

3
Decisions

Remarks

1		437698
2		"
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		
21		"
22		"
23		"
24		"
25	Same as #2, line 16 (Big Pond)	"
26		
27		

GEOGRAPHIC NAMES

Survey No. T-8516

3	Name on Survey	A	B	C	D	E	F	G	H	K	
✓	<u>The Branch</u>										1
✓	<u>Morse Neck</u>										2
✓	<u>Wallace Head</u>										3
✓	<u>Small Point Harbor</u>										4
✓	<u>Middle Ledge</u>			(bare at low water)							5
✓	<u>Wood Island</u>										6
✓	<u>Little Wood Island</u>										7
✓	<u>Mill Point</u>										8
✓	<u>Goose Rock</u>										9
✓	<u>Cape Small Harbor</u>										10
✓	<u>Flat Point</u>										11
✓	<u>Tottman Cove</u>										12
✓	<u>Newbury Point</u>										13
✓	<u>Sister Point</u>										14
✓	<u>Fish House Cove</u>										15
✓	<u>West Point</u>			(point)							16
✓	<u>Carrying Place Cove</u>										17
✓	<u>Carrying Place Head</u>										18
✓	<u>West Point</u>			(village)							19
	The following names should be ordered, to be applied when name sheet is available:										20
✓	<u>Town Road</u>										21
✓	<u>Small Point Hill</u>										22
✓	<u>Haskell Hill</u>										23
	<u>Small Point Road</u>										24
✓	<u>Cape Small Pond</u>										25
											26
											27

Names underlined in red approved
by L. Heck on 2/23/44

M 234

Names underlined in red approved
by L. Heck on 2/23/44