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DEPARTMENT OF COMMERCE	
U.S. COAST AND GEODETIC SURVEY	
W. K. KATZ, Director	
L. O. Colbert	
DESCRIPTIVE REPORT	
Topographic INDEXED	Sheet No. T6853 a+b
State <u>Maine</u>	
LOCALITY	
<u>Casco Bay</u>	
<u>Spring Point to Richmond Island</u>	
19 <u>41</u>	
CHIEF OF PARTY	
<u>Fred L. Peacock</u>	

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 168532

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. "S"

REGISTER NO. T-68532

State Maine

General locality Casco Bay, Western Part

Locality Spring Point to Trundy Point

Scale 1:10,000 Date of survey Sept.-Oct., 1941

Vessel Ship OCEANOGRAPHER

Chief of party Fred. L. Peacock

Surveyed by Dale E. Sturmer

Inked by Dale E. Sturmer and Norfolk Processing Office

Heights in feet above --- to ground to tops of trees

Contour, Approximate contour, Form line interval --- feet

Instructions dated May 7, 1941, 19

Remarks: C.S.-265

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SURVEY FIELD LETTER "S"

T-6853a

CASCO BAY, WESTERN PART

Maine

Spring Point to Trundy Point

INSTRUCTIONS:

This survey was executed in accordance with the Director's Instructions to the Commanding Officer, Ship OCEANOGRAPHER, Project C.S.-265, dated May 7, 1941.

SCALE:

The scale of this survey is 1 : 10,000.

LIMITS:

This survey is a detailed topographic survey from Spring Point to Portland Head, and Graphic Control from Portland Head to Trundy Point. The remainder of the shore line on this sheet is to be obtained from air photographic survey of this area which is contemplated for the near future. This survey joins Topographic Survey Field Letter "M" (1:5000) on the north, and Graphic Control Survey Field Letter "T" on the south. Both of the junction surveys were executed by personnel of the Ship OCEANOGRAPHER in the 1941 season.

CONTROL:

Control consisted of triangulation of second and third order accuracy executed by C. M. Durgin in 1933 and P. L. Bernstein in 1941. All positions were field computations.

METHODS:

Standard planetable methods were used in executing this survey. The planetable was located by three point fixes, resection, intersection or by short traverses run between these points.

TRAVERSES RUN:

A traverse was run from signal FUN (located by 3 point fix) to signal OWL (resection point). The closing error was 1 meter for which no adjustment was made.

A traverse was run from triangulation station SMUG to signal DOE (3 point fix) with a closing error of 2 meters. No adjustment was made for this error.

GENERAL DESCRIPTION:

The shoreline from Spring Point to Portland Head is quite irregular (except for the sand beaches as indicated on the sheet) with many jagged rocks. At the high water line or just back of it are irregular rocky or rock and earth cliffs ranging in height from 5 to 30 feet.

The rocky ledges that extend out to the low water line are very irregular, and often many boulders are intermingled with the ledges. The low water line was rodged in.

MAGNETIC MERIDIAN:

The Magnetic Meridian shown on this survey was obtained from the declinatoire for Alidade No. 207, and the index error for it is not known.

GEOGRAPHIC NAMES:

No investigation for Geographic Names was made. Fort Williams is not shown on Chart 325 and probably has been omitted because of its defense activities, although it is an old established fort.

MISCELLANEOUS NOTES:

The day marker at Lat. $43^{\circ} 37.8'$ and Long. $70^{\circ} 13.1'$ is merely a tall pipe set in the rock.

COMPARISON WITH PREVIOUS SURVEYS:

Comparison with previous surveys T-735, surveyed in 1854-58, shows good general agreement but some variance in detail. The sand beach in Simonton Bay appears to have built out about 10 meters. The rocky section to the southward shows some difference in the back of bays and on the points. This difference may be due to erosion or in interpreting the high water line. In this area the high water tidal range is as much as four feet, which often makes exact determination of the high water line difficult especially in the flat areas over rocky ledges or boulders.

STATISTICS:

3.5 statute miles of high water line.
 3.5 statute miles of low water line.
 53 hydrographic signals located.

LANDMARKS FOR CHARTS:

Landmarks for charts will be made the subject of a separate report.

RECOVERABLE HYDROGRAPHIC STATIONS:

There are no marked hydrographic stations on this survey. Recoverable prominent objects such as chimneys and gables of houses are listed below and also have been submitted on form 524.

Station ERG - E. Gable of house
 " BAND- Center of small red roofed bandstand
 " RIP - S.E. corner of building
 " CNH * Square stone tower on house
 " GET - Southerly gable of house.
 " PEG - Southerly chimney on house
 Day Marker - Iron Pipe on rock

INKING:

The signals, triangulation station, high water line, low water line, rocks, etc., were inked in by the topographer. The names of signals, triangulation stations, numbers on the projection lines, the projection data, etc., were inked in by the Norfolk Processing Office.

Respectfully submitted,

Dale E. Sturmer

Dale E. Sturmer, Ensign, C&GS,
 U.S.C. & G.S.S. OCEANOGRAPHER.

Approved and forwarded:

Fred. L. Peacock
 Fred. L. Peacock,
 Chief of Party, C&GS.

The present survey has been incorporated in air photographic survey T-5958 (1941-43). A comparison has been made with contemporary hydrographic surveys. No further revision by the Hydrographic Survey Section is considered necessary.
R.H. Cassens
4/9/42

Completed in Norfolk Processing Office March 4, 1942.
Geographic names from Chart number 315.

3/9/42
Norfolk Processing Office,
Norfolk, Virginia.

D.A. Jones,
aid. E. & G.S.

Remarks

Decisions

1		436702
2		436702 U.S.G.B
3		"
4		436702
5		"
6		436702
7		"
8		"
9		"
10		436701
11		436702
12		"
13		"
14		436702
15		435702
16		"
17	For title	436700 U.S.G.B
18		
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27		

GEOGRAPHIC NAMES

Survey No.

T685349

GEOGRAPHIC NAMES		Survey No. T685342									
Name on Survey	<div>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</div>										
	A,	B,	C,	D	E	F	G	H	K		
<u>Chimney Rock</u>										1	
<u>Cushing Island</u>										2	
<u>Fort Preble</u>										3	
<u>Fort Scammel</u>										4	
<u>Fort Williams</u>										5	
<u>House Island</u>										6	
<u>Maiden Cove</u>										7	
<u>Pond Cove</u>										8	
<u>Portland Head</u>										9	
<u>Ram Island</u>										10	
<u>Ship Cove</u>										11	
<u>Simonton Cove</u>										12	
<u>South Portland</u>										13	
<u>Spring Point</u>										14	
<u>Trundy Point</u>										15	
<u>Zeb Cove</u>										16	
<u>Casco Bay</u>										17	
										18	
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Names underlined in red approved

by **L. HECH** on **4/27/42**

M 234

Names underlined in red approved

by L. Heck on 4/17/42

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

REG. NO.

168536

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. "T"

REGISTER NO. T-68536

State Maine

General locality Cape Elizabeth

Locality Trundy Point to Richmond Island

Scale 1:10,000 Date of survey September, 1941

Vessel Ship OCEANOGRAPHER

Chief of party Fred. L. Peacock

Surveyed by Dale E. Sturmer

Inked by Dale E. Sturmer and Norfolk Processing Office

Heights in feet above --- to ground to tops of trees

Contour, Approximate contour, Form line interval --- feet

Instructions dated May 7, 1941, 19

Remarks: C. S. -265

DESCRIPTIVE REPORT

to accompany

GRAPHIC CONTROL SURVEY FIELD LETTER "T"
T-68536

CAPE ELIZABETH, MAINE

TRUNDY POINT to RICHMOND ISLAND

INSTRUCTIONS:

This survey was executed in accordance with the Director's Instruction's to the Commanding Officer, Ship OCEANOGRAPHER, Project C.S.-265, dated May 7, 1941.

SCALE:

The scale of this sheet is 1 : 10,000.

CONTROL:

Control consisted of second and third order triangulation executed by O. W. Swainson in 1923, C. M. Durgin in 1933 and P.L. Bernstein in 1941. The triangulation of C. M. Durgin and P. L. Bernstein was on the North American 1927/datum, that of O. W. Swainson was on North American, which was adjusted to N.A. 1927 in accordance with the "Datum Differences" for this area. All positions were field computations.

Some difficulty was experienced in getting a good agreement between the triangulation listed under the North American Datum and that of the North American 1927 Datum, when each set was used by itself a good check was obtained.

SCOPE:

The scope of this survey was the location of signals for hydrographic surveys in this area.

LIMITS:

This survey covers the open coast in the vicinity of Cape Elizabeth from Trundy Point southward around Cape Elizabeth, Seal Cove and around the eastern side of Richmond Island to the most southwesterly point of that island.

This survey joins Graphic Control Survey Field Letter "S" on the north. The southern limits are the limits of Project C.S. 265.

METHODS:

Standard planetable methods were used in executing this survey. From triangulation station TRUNDY to signal IRK combinations of intersection, resection and traverse were used. Most of the remaining signals were located by three or more cuts.

TRAVERSES RUN:

A traverse was run from triangulation station TRUNDY to signal FRY (located by intersection) with a closing error of 1 meter. No adjustment was made on this traverse.

A traverse was run from signal IRK (located by intersection) to CAPE ELIZABETH WEST RADIO TOWER with a closing error of 2 meters. No adjustment was made on this traverse.

RECOVERABLE HYDROGRAPHIC STATIONS:

There are no marked hydrographic stations on this survey. Prominent recoverable objects such as gables, chimneys, etc., which were located are listed below and have been submitted on Form 524.

Station:	✓Max - southerly of 2 chimneys
"	✓Sap - window in shack
"	✓Dig - easterly gable of house
"	✓Zup - cupola on house

MAGNETIC MERIDIAN:

The magnetic meridian on this survey was taken with declinatoire for Alidade No. 207, the index error of which is not known.

LANDMARKS FOR CHARTS:

Landmarks for charts of this area will be made the subject of a separate report.

GEOGRAPHIC NAMES:

No investigation of geographic names was made.

RECOMMENDATIONS FOR ADDITIONAL WORK:

A new detailed topographic survey of this area is recommended.

STATISTICS:

57 Hydrographic signals were located on this survey.

INKING:

The hydrographic signals, triangulation stations, and the projection were inked by the Topographer. The remainder of the sheet will be inked by the Norfolk Processing Office.

Respectfully submitted,

Dale E. Sturmer
Dale E. Sturmer, Ensign, C&GS,
U.S.C. & G.S.S. OCEANOGRAPHER.

Approved and forwarded:

Fred L. Peacock
Fred. L. Peacock,
Chief of Party, C&GS

No formal review necessary.
R.H. Carstens
4/9/47

Completed in Norfolk Processing Office on March 6, 1942.
Geographic names shown in pencil are from chart number 315.

Don A. Jones
aid, C&GS.

3/9/42
Norfolk Processing Office,
Norfolk, Virginia.

Remarks

Decisions

1		435702
2		"
3		"
4		"
5		435701
6		435702
7	Pending with U.S.G.B.	435702
8		"
9		435702
10		435702
11		435702
12		"
13		"
14		"
15		"
16	Pending with U.S.G.B.	435701
17		"
18		435702
19		"
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GEOGRAPHIC NAMES

Survey No. **T6853 b**

GEOGRAPHIC NAMES		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>Adam Head</u>																	1
<u>Broad Cove</u>																	2
<u>Cape Elizabeth</u>																	3
<u>Clam Cove</u>																	4
<u>Dyer Point</u>																	5
<u>East Point</u>																	6
<u>Johns Hill</u>																	7
<u>Jordan Point</u>																	8
<u>Mc Kenney Point</u>																	9
<u>Musche</u>																	10
<u>Musche Cove</u>																	11
<u>Ram Island</u>																	12
<u>Richmond Island</u>																	13
<u>Richmond Island Harbor</u>																	14
<u>Seal Cove</u>																	15
<u>Seal Rocks</u>																	16
<u>Staple Cove</u>																	17
<u>Staple Point</u>																	18
<u>Trundy Point</u>																	19
<u>High Head</u>																	20
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																	27

Names underlined in red approved

by L. Heck on 4/25/42

M 234

Names underlined in red approved
by L. Heck on 4/27/42

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

~~No. 14~~

No. T T6853 a & b

received March 19, 1942
registered April 6, 1942
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
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RETURN TO

82	R. W. Knox
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[Handwritten signature]