

6848  
a & b  
Graphic Control

U. S. COAST & GEODETIC SURVEY

LIBRARY AND ARCHIVES

NOV 28 1941

Acc. No.

Form 504  
Rev. Dec. 1933  
DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY  
R. S. PATTON, Director

**DESCRIPTIVE REPORT**

Topographic }  
~~Hydrographic~~ } Sheet No. "F & R"

State Maine

LOCALITY

(a) Royal River to Great Chebeag Id.

(b) Maquoit Bay & Upper part of

Middle Bay, Casco Bay  
Vicinity of Cousins I. and  
Maquoit Bay

19341

CHIEF OF PARTY

Fred. L. Peacock, C&GS.

U. S. GOVERNMENT PRINTING OFFICE: 1934

6848 a & b  
Graphic Control

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. F

REGISTER NO. **T6848a**  
**Graphic Control**

State Maine

General Locality Casco Bay

Locality Royal River to Great Chebeag Island

Scale 1:10000 Date of survey June, 1941

Vessel Ship OCEANOGRAPHER

Chief of party Fred. L. Peacock

Surveyed by Don A. Jones

Inked by Don A. Jones

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

Contour, Approximate contour, Form line interval -- feet

Instructions dated May 7, 1941, 19

Remarks: \_\_\_\_\_



# DESCRIPTIVE REPORT

to accompany

GRAPHIC CONTROL SURVEY FIELD LETTER "F"

CASCO BAY

Royal River to Great Chebeag Island

## INSTRUCTIONS:

This survey was executed in accordance with Paragraph 8 of the Instructions, Project C.S.-265, dated May 7, 1941.

## SCALE:

The scale of this survey is 1 : 10000 which is the scale of the hydrographic and wire drag surveys in this area.

## LIMITS:

This survey covers the area included within the following: Royal River and Cousin River on the northwest; Upper Green Island on the northeast; Great Chebeag Island on the southeast; and Broad Cove on the southwest.

This survey joins Graphic Control Survey Field Letter "A" on the south; Graphic Control Survey Field Letter "H" on the north; and Graphic Control Surveys Field Letters "G" and "K" on the east.

*T-6843+(1941)*  
*T-6850(1941)*  
*T-6844(1941)*  
*T-6856(1941)*

## CONTROL:

The control for this survey consists of twenty (20) triangulation stations shown on the survey by the red triangulation symbol. Triangulation established by C. M. Durgin, 1933 (unadjusted, North American 1927 Datum geographic positions used). Following is a list of the control:

Little Moshier, 1933  
Little Moshier U.S.E., 1933  
Upper Green, 1933  
Blaney U.S.E., 1933  
Cousins Island House Chimney, 1933  
Cousins Island Cornfield Point Wharf, 1933  
Great Chebeag Island House Chimney, 1933

Thomas, 1933  
York, 1852  
Doyle, U.S.E., 1933  
Bar, U.S.E., 1933  
Great Chebeag Island Church Belfry, 1933  
Littlefield, 1933

Triangulation stations vicinity of Royal River established  
1937 by U.S. Engineers:

Lane (USE)  
Status (USE)  
Parker (USE)  
Lane Shore (USE)  
Fogge (USE)  
Free (USE)  
Brown (USE)

Geographic positions for the above six (6) U.S.E. triangulation  
stations were computed from data received from the U. S. Engineers  
Office, Boston, Mass. A list of these stations appears in the  
appendix of this report.

Photostatic copies of the triangulation data for the U. S.  
Engineer's Royal River Scheme were submitted on June 10, 1941.

#### PLANETABLE METHODS:

The positions of all control points located on this survey  
except in Cousin River were established by at least three strongly  
intersecting planetable cuts, either from planetable set-ups at  
triangulation stations or set-ups at previously well-located control  
points. No difficulty was experienced in checking orientations at  
any of the triangulation stations or planetable positions occupied.

The positions of the ten (10) control points established by  
this survey in Cousin River (Latitude  $43^{\circ} 48'$ , Longitude  $70^{\circ} 10'$ )  
were determined by running a standard planetable graphic triangula-  
tion scheme from Royal River northward to the approximate limit of  
navigation in the Cousin River. This scheme was based on triangula-  
tion stations: Status, USE, Fogge, USE, Lane Shore, USE, and  
Free, USE, located at the Mouth of the Royal River. No triangula-  
tion control was available for a tie-in at the upper end of the  
graphic triangulation scheme. The high water line along Cousin  
River, in general consists of 15 to 35-foot heavily wooded bluffs  
with higher land a short distance back from the bluffs. This



condition of relief along with the desire to expedite the survey prevented tying-in the upper end of the graphic triangulation scheme. Extreme care was exercised in the execution of the graphic triangulation. Stadia distances were used to check the intersections of cuts.

All control points located on this survey were for the control of hydrographic and wire drag surveys in this area. These control points are indicated on the survey by red circles with hydrographic signal name adjacent thereto and in red.

#### REVISION SURVEYS:

In compliance with the Instructions, all wharfs, docks, and landmarks in this area not previously located were located on this survey, and are shown in accordance with instructions regarding detailing of revision work, Special Publication No. 144, Topographic Manual.

Eight prominent wharfs and docks were located on this survey. One dock located on Graphic Control Survey Field Letter "A" in the vicinity of Signal NICK, Latitude  $43^{\circ} 45.7'$ , Longitude  $70^{\circ} 10.4'$ , was relocated on this survey because of the failure of the high water line as determined on Graphic Control Survey Field Letter "A" to check with the high water line as shown on Topographic Sheet T-919a(1864). The high water line determined on this survey in the vicinity of Signal NICK checked the high water line determined on Survey "A".

The wooden bridge connecting Cousins Island and Littlejohn Island, Latitude  $43^{\circ} 45.4'$ , Longitude  $70^{\circ} 08.3'$ , was located on this survey.

The high water line shown in pencil on this survey is from Topographic Surveys T-918(1861) and T-919a(1864) and was adjusted for datum and as nearly as possible for signal location.

#### RECOMMENDATIONS FOR ADDITIONAL WORK:

A complete topographic resurvey of the area covered by this survey is recommended. The present high water line appears to vary in minor detail at many points from the high water line as



shown on Topographic Surveys T-918 and T-919a and difficulty was experienced in adjusting that high water line to the signals located on this survey. In the vicinity of Signal NICK, Latitude  $43^{\circ} 45.7'$  Longitude  $70^{\circ} 10.4'$ , approximately 150 meters of high water line was located in conjunction with the location of the wharf at the signal. It was impossible to fix the high water line shown on Topographic Survey T-918 to this high water line. Discrepancies of as much as 20 meters could not be accounted for.

#### GEOGRAPHIC NAMES:

No investigation of geographic names in this area was made.

#### LANDMARKS:

Landmarks recommended for charting in this area have been made the subject of a separate report.

Two control points located on this survey were recommended as landmarks for charting. These two points are: OCT, GODA.

#### RECOVERABLE HYDROGRAPHIC AND TOPOGRAPHIC STATIONS:

In accordance with instructions in the Director's letter No. 22 mje 1995 OC 4, dated August 20, 1941, five (5) control points located by this survey were marked and descriptions submitted on Form 524 as recoverable topographic stations. These five points are: ROOF, COLT, JANE, INT, and TRIP.

The mark established at Signal ROOF was set 1.66 m. from Signal ROOF,  $81^{\circ}$  left of the line from Signal ROOF to Triangulation Station STATUS (USE), 1937.

The descriptions and positions of these recoverable topographic stations were submitted with the special report "Anchorage Control Stations for Chart No. 201."

STATISTICS:

Field work began	June 23, 1941
Field work was completed	Aug. 7, 1941
Number of days of field work required	4½ days
Number of hydrographic signals located	62
Number of recoverable topographic stations submitted	5
Number of triangulation stations recovered	12

Respectfully submitted,

October 25, 1941

*Don A. Jones*

Don A. Jones, Ensign, C&GS,  
U.S.C. & G.S.S. OCEANOGRAPHER.

Approved and forwarded:

*Fred. L. Peacock*  
Fred. L. Peacock, Lt. Comdr., C&GS,  
Chief of Party.

*This graphic control sheet  
has been compared with  
contemporary hydrographic  
surveys. No further review  
by the Hydrographic Survey  
section is necessary at  
the present time.*

*R.H. Carstens 6/6/46*



APPENDIX NO. 1

Geographic Positions computed from data furnished by the U. S. Engineers Office, Boston, Mass. and used in plotting the following triangulation stations on this survey, all on North American 1927 Datum (unadjusted).

TRIANGULATION STATION	LATITUDE & LONGITUDE	SECONDS IN METERS
Parker (USE) 1937	43° 47' 29.971" 70° 08' 36.591"	924.99 (926.79) 818.10 (523.38)
Brown (USE) 1937	43° 47' 42.906" 70° 08' 51.324"	1324.21 (527.51) 1147.45 (193.97)
Free (USE) 1937	43° 47' 50.594" 70° 08' 31.914"	1561.48 (290.30) 713.47 (627.85)
Status (USE) 1937	43° 47' 22.420" 70° 08' 29.364"	691.95 (1159.83) 656.55 (684.99)
Foggy (USE) 1937	43° 47' 41.867" 70° 08' 11.036"	1292.14 (559.64) 246.73 (1094.69)
Lane (USE) 1937	43° 47' 30.026" 70° 07' 48.368"	926.69 (925.09) ✓ 1081.41 (260.07)
Lane Shore (USE) 1937	43° 47' ----- 70° 07' -----	(813.4) (1271.8)

The geographic position of LANE SHORE, U. S. E., 1937 was determined by laying down on the topographic survey the triangulation outs from the U. S. E. observations at BLANEY, U. S. E., STATUS, U. S. E., and FOGG., U. S. E., to the station LANE SHORE and pricking the intersection of the outs.

## Remarks

## Decisions

1		436700
2		437701
3		437701
4	In entry leave space for 2 letters after Chebeag, in case V.S.V.B. decision approves Chebeague.	437701
5		437700
6		437701
7	One word - Littlejohn	"
8		"
9		437701
10		437701 U-2-6-B
11		"
12		437701
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

# GEOGRAPHIC NAMES Survey No. **T6848a** Cape's Control

GEOGRAPHIC NAMES											
Survey No. T6848a											
Graphic Control											
Name on Survey											
	A.	B.	C.	D.	E.	F.	G.	H.	K.		
Casco Bay											1
Cousing Island											2
Cousing River											3
Great Chebeag Island											4
Great Moshier Island											5
Lanes Island											6
Little John Island											7
Little Moshier Island											8
Parker Point											9
Royal River											10
Sandy Point											11
Town Landing											12
											13
											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27

COAST AND GEODETIC SURVEY

U. S. DEPARTMENT OF COMMERCE

HECKMAN 3/13/94

M 234

L. Heck on 5/13/44  
 L. Heck on 5/13/44



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. "R"

REGISTER NO.

T6848b  
Graphic Control

State Maine

General locality Casco Bay, Western Part

Locality Maquoit Bay, Upper Part of Middle Bay

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

Remarks: C.S.-265

# DESCRIPTIVE REPORT

to accompany

GRAPHIC CONTROL SURVEY FIELD LETTER "R"

CASCO BAY, WESTERN PART

Maquoit Bay and Upper Part of Middle Bay

## 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.

## SCOPE:

The scope of this survey is the location of signals for hydrographic and wire drag surveys of this area.

## LIMITS:

This survey covers Maquoit Bay, the northern part of Mare Point Bay, and the northern part of Middle Bay, all of which are in the northern part of Casco Bay.

This survey joins Graphic Control Survey Field Letter "L" on the south, which was executed by the Ship OCEANOGRAPHER personnel this season. T-68436(1241)

## METHODS:

Standard planetable methods were used in executing this survey. Most of the hydrographic signals were located by the intersection of three or more cuts. In areas where triangulation was limited, control was carried forward by planetable triangulation. No traverses were run on this sheet.

## RECOVERABLE HYDROGRAPHIC STATIONS:

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

Station VUG - westerly gable of house  
" POT - southerly gable of house  
" HID - Southeast gable of ~~house~~ barn  
" WOW - highest point of rock



LANDMARKS FOR CHARTS:

Landmarks for charts of this area have been 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:

78 hydrographic signals were located by this survey.

INKING:

The hydrographic signals, triangulation stations, and projection lines, were inked in by the Topographer. The remainder of the sheet will be 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.

-----  
*This graphic control sheet  
has been compared with  
contemporary hydrographic  
surveys. No further review  
by the Hydrographic Surveys  
Section is necessary at the  
present time.  
R.H. Carstens 6/6/46*



## Remarks

## Decisions

1		438700
2		"
3		436700
4		437700
5		438 700
6		"
7		438700
8		438 699
9		438 699
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

# GEOGRAPHIC NAMES

Survey No. **T6848 b**

Castle Control

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	
<u>Bunganuc Landing</u>										1
<u>Bunganuc Rock</u>										2
<u>Casco Bay</u>										3
<u>Harpswell Neck</u>										4
<u>Maquoit Bay</u>										5
<u>Mare Point Neck</u>										6
<u>Middle Bay</u>										7
<u>Middle Bay Cove</u>										8
<u>White Island</u>										9
										10
										11
										12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

... Underlined in ...  
by L. H. K. 3/13/42

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
~~PHOTOGRAPH~~

~~XNOX~~

No. T T6848<sup>a & b</sup>  
Graphic Control

received Nov. 28, 1941  
registered Dec. 22, 1941  
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
20			
22			
24			
25			
26			
30			
40			
62			
63			
82			
83			
✓ 88	P. J. S	<i>[Signature]</i>	Lt. Finnegan
90			

RETURN TO

82	R. W. Knox
----	------------

*[Signature]*