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FORM 504 Rev. Dec. 1933 DEPARTMENT OF COMMERCE U.S. COASY AND GEODETIC SURVEY R. S. PATYON, DIRECTOR		
DESCRIPTIVE REPORT		<u> </u>
Topographic Sheet No. "C & K"	,	**************************************
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State Maine LOCALITY		}
Casco Bay		<u>-</u>
(a) Presumpscot River and Middle Bay (b) Upper part of Broad Sound		
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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. "C"
register no. $T6845a$
State Maine
General locality Casco Bay, Western Part
Locality Presumpscot River
Scale 1:10,000 Date of survey Sept-Oct. , 19 11
Vessel Ship OCEANOGRAPHER
Chief of party Fred L. Peacock
Surveyed by D:E: Sturmer
Inked byD.E. Sturmer and Norfolk Processing Office
Heights in feet above to ground to tops of trees
Contour, Andrea Harris Bally Bally Bally Form 4 hours below 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Instructions dated May 7, 1941 , 19
Remarks: Project C. S. 265

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SURVEY FIELD LETTER "C"

Casco Bay, Western Part

Maine

Mackworth Island and Presumpscot River

INSTRUCTIONS:

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

SCALE:

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

LIMITS:

This is a hydrographic control survey for the Presumpscot River to the head of navigation with detailed shoreline of Halfway Rock, Mackworth Island, and to Latitude 43° 41.5' of the Presumpscot River. A small area at the crossing of the highway am railroad bridge at Latitude 43° 42.9' and Longitude 70° 15.2' was also surveyed in detail. The remainder of the shoreline on this sheet is to be obtained from air photographic surveys of this area which is contemplated in the near future.

This survey joins Graphic Control Survey Field Letter "B" on the east and Topographic Survey Field Letter "N" on the south.

Both of these surveys were executed by the Ship OCEANOGRAPHER personnel

this season.

CONTROL:

Control consisted of triangulation of second and third order accuracy located by C. M. Durgin in 1933 and P. L. Bernstein in 1941. All positions are from field Computations.

SURVEY METHODS:

Standard planetable survey methods were used in locating the signals, high water line, low water line, rocks, and kindred data. In carrying the planetable control up the Presumpscot River cuts were taken from Triangulation Station GOLF to Signals TOAD and MOAT (these were the only ones that could be seen from GOLF), and to Signal MOAT from Triangulation Station HALFWAY ROCK. Planetable triangulation was then carried up the river to Signal ZAZU. From Signal TIPO to Signal 5th a traverse was run closing back on Signal TIPO.

On the north side of Mackworth Island, signals and control points were transferred from Graphic Control Survey Field Letter "B" to this sheet. These were then used for control points of this sheet. This was considered to be more advisable than to try to run a traverse around the island with many short set-ups.

TRAVERSES:

The only traverse run on this sheet was from signal TIPO (Planetable Triangulation Point) to Signal 5th and return. The closing error was two (2) meters, well within the allowable. No adjustment was made.

GENERAL DESCRIPTION:

The land areas covered by this sheet consist of low rolling hills, covered with trees and brush. Mackworth Island has some cleared spaces for cultivation but these are not very prominent from the water. The area from Signal SUNG to the MARINE HOSPITAL STACK is part of the City of Portland.

The bluffs back of the high water line vary in height from five to twenty feet. Where there are rock ledges or rocks and gravel shown outside the high water line, the bluffs will usually be rock for the first few feet with a dirt bluff the remainder of the height. This is shown as a dirt bluff as it is the predominating one of the two.

The area inside the low water line where it is some distance from the shore, is mud and shells, except along the beach where it is indicated by appropriate symbols on the survey.

JUNCTIONS:

A satisfactory junction was made with Sheet "S" on the south. This is the only junction on the Survey.

LOW WATER LINE:

The low water line was rodded in around Mackworth Island from Lat. 43° 41.6', Long. 70° 13.9' around the eastern end of the Island to Lat. 43° 41.1', Long. 70° 13.9'. The remainder of the low water line is so far out in the mud flats that it was more feasible for the hydrographic party to locate it. In the area where the low water line is far out in the mud flats, next to the beach there is often a narrow strip of sand or gravel.

This has been shown on the survey by appropriate symbols to give the character of the beach and Should not be considered the low water line.

This applies to the southern part of the Presumpscot River except for the area 30 meters west of signal ENOS to 120 meters east of signal ENOS.

GEOGRAPHIC NAMES:

No investigation of geographic names was made. Mackworth Island is now locally known as Baxter Island because it was owned by ex-Governor Baxter.

RECOVERABLE HYDROGRAPHIC STATIONS:

There are no marked hydrographic stations on this survey. Prominent recoverable objects which were located are listed below and have been submitted on form 524.

Station TUNA - tall stack.

MISCELLANEOUS NOTES:

The draw span of the highway bridge a cross the Presumpscot Riverat Signal ENOS is of the single leaf bascule type. It has a horizontal clearance of 41 feet and a vertical clearance, when closed of 1 foot. A new bridge is being constructed to replace the one above.

The wooden trestle from Mackworth Island to the mainland has no draw or large opening, and the bents are so close together that it will accommodate only small boats such as skiffs.

The highway bridge near Signal ZAZU is of the fixed span type and has a horizontal clearance of 140 feet and a vertical clearance of 7 feet at Mean High Water. The railroad bridge has a much greater vertical clearance.

SPECIAL NOTE:

The grass area outside the high water line on the southern shore of the Presumpscot River may appear to be shown contrary to Field Memorandum No. 1 (1938) "Mean High Water Line in Marsh and Other Swamp Areas." issued June 20, 1938. At the high water line there is either a hard marsh, sand or in some instances gravel. Immediately back (1 to 5 meters) of this high water line is a dirt bluff ranging in height from 5 to 20 feet. Outside of the high water line the grass, which varies in height from \$\frac{1}{2}\$ to 2 feet, extends at an even slope to the mud flats. In most instances the high water line is a definite line (taking the large high water range into consideration) and it was felt that it should be shown withea heavy line.

The above is a condition similar to the grass outside the high water line in the lower left corner (below "C") of Fig. 1 of above mentioned field memorandum.

INKING:

The signals, whe high water line, the low water line where rodded in, the bluffs, the bridges, the dolphins, the grass areas, and the projection were inked in by the Topographer. The lettering in of signals, triangulation stations, projection lines, the geographic names, etc. will be inked in by the Norfolk Processing Office.

MAGNETIC MERIDIAN:

The magnetic meridian was obtained by declinatoire for Alidade No. 207. The index error is not known.

COMPARISON WITH PREVIOUS SURVEYS:

In general outline this survey is in good agreement with Survey Register No. 755 executed in 1855. There are some small discrepancies in the back of the bays and dn some points.

STATISTICS:

Number	of	statute miles	of high water line	4.2
Number	of	statute miles	of low water line of roads	1.1
Number	of	hydrographic s	signals located	33

LANDMARKS FOR CHARTS:

The landmarks for charts of this area have been made a subject of a separate report.

Respectfully submitted,

Dale E. Strimer

October 29, 1941

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

Approved and forwarded:

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

This topographic survey has been incorporated in T-5957 (1942-43), a comparison has been made with contemporary hydrographic survey. No further review by the Hydrographic Survey Section is necessary at the present time.

RH. Carotens 6/6/46

Remarks

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DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

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. K

REGISTER NO. T6845 b
State Maine
General locality Casco Bay part of Locality Upper Broad Sound
Scale 1: 10000 Date of survey June , 1941
Vessel Ship OCEANOGRAPHER
Chief of party Fred. L. Peacock
Surveyed by Charles A. Schanck
Inked by Charles A. Schanck
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated May 7, 1941 , 19
Remarks:

DESCRIPTIVE REPORT

to accompany

GRAPHIC CONTROL SHEET NO. K (FIELD)

CASCO BAY

INSTRUCTIONS:

The work covered by this report was performed in accordance with Paragraph 8, Instructions, Project C.S.-265, dated May 7, 1941, referenced 22 mjc - 1995 OC 1.

PURPOSE AND SCOPE OF WORK:

The primary purpose of this graphic control survey was to locate signals for control of hydrographic and wire drag surveys in the area. Since air photographic surveys for this area are contemplated in the near future no detailed topography was surveyed except the location of a large pleasure pier at Signal TAPE in the southwest corner of the sheet. The omission of other topographic detail is in accordance with the instructions.

LIMITS:

In general the work on this sheet covers the location of signals on the islands around Upper Broad Sound. It includes the location of all signals on Whaleboat, Little Whaleboat, Lower Goose, French, Sow and Pigs, The Goslings, and Upper Green Islands, signals on the eastern side of Bustins Island, on the northeast tip of Great Chebeag Island, and signals on the southwest shore of Harpswell Neck, and around Basin Cove in Harpswell Neck.

This sheet joins Sheet L (field) on the north, Sheet J (field) on the east, Sheet G (field) on the south, and Sheets F (field) and H (field) on the west.

METHODS:

The work on this sheet was done in accordance with standard practice on graphic control stations. With the exception of Basin Cove all signals were located by three or more cuts from triangulation stations or previously located

graphic control stations, or by a combination of two cuts and a rod reading.

To locate the signals in Basin Cove it was necessary to run a traverse from Signal BLA located by graphic control to Triangulation Station Harpswell Neck, Basin Point, House Chimney. This traverse had a closure of 4 meters in a distance of 1.8 miles.

GEOGRAPHIC NAMES:

No investigation of geographic names in this area was made.

RECOMMENDATIONS FOR ADDITIONAL WORK:

A new detailed topographic survey of this area is recommended.

STATISTICS:

One hundred two (102) signals were located on this sheet.

LANDMARKS:

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

Respectfully submitted,

October 8, 1941

Charles a. Schanck Charles A. Schanck, Lt. (j.g.), C&GS,

U.S.C. & G.S.S. OCEANOGRAPHER.

Approved and forwarded:

This graphic control sheet has been engaged with contemporary hydrographic surveys. No further served L. Peacock,
Chief of Party, C&GS.

This graphic control sheet has been engaged with contemporary hydrographic surveys Section is necessary

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Remarks.

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REPORT on TOPOGRAPHIC SURVEY

K(FIELD)

MARKED GRAPHIC CONTROL STATIONS

In accordance with instructions in the Director's letter No. 22, MJC 1995 OC 4, dated August 20, 1941, six graphic control stations in the area of this survey were permanently marked with hydrographic station marks. The field work on this survey had been completed when the instructions were received so four of them were set eccentric to the located signals, tied in by distance and direction, and then plotted on the sheet.

The marks were set as follows:

KID (Lower Goose Island)

Mark set 3.75 meters (12.3 ft.) from signal KID and on line between signal KID and triangulation station BUSTIN, 1933.

BLA(Harpswell Neck, west side)

Mark has same position as signal BIA

SOCK(North end of Whaleboat Island)

Mark is set 3.81 meters (12.5 ft.) from signal SOCK and on line between signal SOCK and triangulation station Baptist Church Spire, Harpswell Neck, 1933.

PUSS (Northwest of Little Whaleboat Island)

Same position as signal PUSS

WISE (South end of French Island)

Mark is set 5.40 meters (17.7 ft.) from signal WISE and on line between signal WISE and triangulation station SOUTH FREEPORT, CASCO CASTLE, 1933. Also shown on Survey H(field)

POD (Peters Cove, Harpswell Neck)

Mark is set 3.54 meters (11.6 ft.) from signal POD and on line between signal POD and triangulation station BUSTINS, 1933.

The descriptions and positions of these marks were forwarded with Special Report, Anchorage Stations for Chart No. 201, on October 15, 1941.

John H. Brittain, Lieut. (j.g.) C&GS

MEMORANDUM IMMEDIATE ATTENTION

		received Nov. 28, 1941
SURVEY DESCRIPTIVE REPORT XEMIOTIONSTATIXON	No. T TE845 a & b	
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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.

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