Graphic Control

6912a&b

Diag. Cht No. 1204-2 Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. J Office No. T-6912

LOCALITY

State MAINE

General locality Casco Bay

Locality New Meadows River, ~~Sandy Harbor Pt~~ and Quahog Bay

~~Woodward Point~~

194 2

CHIEF OF PARTY

C. D. Meaney

LIBRARY & ARCHIVES

DATE January 17, 1944

B-1870-1 (1)

6912a&b

Form 537a
Ed. Nov. 1929

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. T6912

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. J

REGISTER NO.

State MAINE

General Locality Casco Bay

Locality New Meadows River, Cundy Harbor to Woodward Point

Scale 1:10,000 Date of survey Summer, 1942

Vessel LYDONIA

Chief of party C. D. Leaney

Surveyed by D. E. Sturmer

Inked by D. E. Sturmer and M. A. Axelton

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

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

Instructions dated March 11, 1942

Remarks: Graphic Control Survey

GPO 286853

DESCRIPTIVE REPORT

to accompany

GRAPHIC CONTROL SURVEY

Field Letter "J"

CASCO BAY, MAINE

NEW MEADOWS RIVER

INSTRUCTIONS:

This survey was executed in accordance with The Director's Supplemental Instructions for Project C.S.265 issued to the Commanding Officer, Ship LYDONIA. The date of these supplemental instructions is March 11, 1942.

SCALE:

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

LIMITS:

This survey covers shoreline of New Meadow River and adjoining bays from Cundy Harbor to Woodward Point. It joins T-6912-D (1942) Survey Field Letter "H" on the south, T-6915-a (1942) Survey Field Letter "L" on the west and T-6915-a (1942) Survey Field Letter "M" on the north. All of the above were executed by LYDONIA personnel during the 1942 season.

CONTROL:

Horizontal control consisted of triangulation of second and third order accuracy executed by C. M. Durgin in 1933.

SURVEY METHODS:

Standard planetable survey methods were used throughout. In areas such as Winnegance Bay, Mill Cove, Broad Cove, Woodward Cove combinations of cuts, resection and traversing were used to locate signals. Signals that had been cut in from strong control points such as triangulation stations, three point fixes or resection points were used as additional control points.

TRAVERSES:

The only traverse run on this survey was from signal CAT along the western shore of Long Island to signal BILL. The closing error was 1 meter; no adjustment was made.

HIGH WATER LINE:

Short stretches of high water line were located at about

one mile intervals. Wherever practical this was done at triangulation stations. In inking the high water line the point located was not inked.

ROCKS & REEFS:

As many rocks and reefs as practical were located during the course of this survey. However, the short time that low water is available, due to the large range of tide and the necessity of locating signals for the hydrographic party, limited the time that was available for the locating of rocks and reefs.

RECOVERABLE TOPOGRAPHIC STATIONS:

Listed below are the recoverable topographic stations located on this survey. Descriptions of these are on form 526.

DOP----Standard disc.
BASO--- " "
HIT---- " "
OAK---- " "
HO-----Gable of House
EAST---Chimney on house
CON----Beacon
TON----Gable of building
POP----Chimney on house

MAGNETIC MERIDIAN:

The magnetic meridian shown on this sheet was observed with the declinatoire for alidade #190. The index error of this declinatoire is not known. The variation scaled from the sheet is 17° 51' W.

LANDMARKS FOR CHARTS:

Landmarks for charts is the subject of a separate report covering the entire project area.

INKING:

The high water line was inked in by the topographer. The topographic signals, the triangulation stations, the rocks and reefs with the notes pertaining thereto, the magnetic meridian and the names of aids to navigaion were inked by personnel of the Norfolk Processing Office under the topographer's supervision. The remainder of the sheet was inked by Norfolk Processing Office personnel.

Respectfully submitted,

Dale E. Sturmer
Dale E. Sturmer
Lieut. U.S.C.&G.S.

Approved, Forwarded:

C. D. Meaney
C. D. Meaney
Lt. Comdr. C.&G.S.
Commanding Ship LYDONIA

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 6/5/96

Form 537a
Ed. Nov. 1929

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. T6912

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. H

REGISTER NO.

State MAINE

General Locality Casco Bay

Locality New Meadows River, Ridley Cove and part of Quohog Bay

Scale 1:10,000 Date of survey Field Season, 1942

Vessel LYDONIA

Chief of party C. D. Meaney

Surveyed by Dale E. Sturmer

Inked by D. E. Sturmer and M. A. Axelton

Heights in feet above ____ to ground to tops of trees

Contour, Approximate contour, Form line interval ____ feet

Instructions dated March 11, 1942

Remarks: Graphic Control Survey

GPO 266853

DESCRIPTIVE REPORT

to accompany

GRAPHIC CONTROL SURVEY

Field Letter "H"

CASCO BAY, MAINE

NEW MEADOWS RIVER & PART OF QUOHOG BAY

INSTRUCTIONS:

This survey was executed in accordance with The Director's Supplemental Instructions for Project C.S.265, issued to the Commanding Officer, Ship LYDONIA. The date of these Supplemental Instructions is March 11, 1942.

SCALE:

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

LIMITS:

This survey covers the mouth of New Meadows River, Ridley Cove and the southern part of Quohog Bay.

This survey joins the following surveys all executed by personnel of the Ship LYDONIA during the 1942 season.

On the south----Survey Field Letters "F" and "G" T-6928 b & T-6929 b (1942)
" " west----- " " " "K" T-6929 a (1942)
" " north---- " " " "N" and "L" T-6912 a & T-6915 a (1942)

CONTROL:

Horizontal control consisted of triangulation of second and third order accuracy executed by C. M. Durgin in 1933.

SURVEY METHODS:

Standard planetable methods were used throughout. In Dingley Cove and Quohog Bay combinations of intersections of cuts, resection and traverse were used for control.

TRAVERSES:

The only traverse run on this survey was from signal DOG at the entrance of "The Basin" into "The Basin" and out again to signal DOG. The closing error was 3 meters which was adjusted on the sheet.

HIGH WATER LINE:

Short stretches of high water line were located at about one mile intervals over the area covered by the survey. Whenever

practical the high water line was located near triangulation stations. In inking the point located was not inked.

ROCKS, REEFS AND LOW WATER LINE:

As many rocks, reefs and as much low water line as practical were located on this survey. Most of the rocks and reefs were located at or near low water. This was necessary because of the nature of these reefs. A much larger area is bare at low water than when there is a foot or two of tide.

In areas where reefs extend out from the shoreline, only the outer ends of the reefs were located. It was assumed that the inner part will be located on the air photographs.

The reefs in the area of Lat. 43-47.5 and Long. 69-55.6 were located when there was 2 to 3 feet of tide and they do not agree in some instances with the hydographic locations. In this area it is recommended that the hydrographic location be given preference to the location on this survey.

RECOVERABLE TOPOGRAPHIC STATIONS:

Listed below are the recoverable topographic stations located on this survey. Descriptions for these are on form 524.

TOO-----Standard Disc
RAW---- " "
IMP---- " "
CROW---Gable of house
COT----Gable of Building
OLE----Center of building
OLE----Gable boat house
DICK---Chimney on house
SAP----Standard disc
DALE--- " "
OCRA--- " "

MAGNETIC MERIDIAN:

The magnetic meridian shown on this sheet was observed with the declinatoire for alidade #190 for which the index error is not known. The variation as scaled from the sheet is 17° 54' W.

LANDMARKS FOR CHARTS:

The landmarks for charts is the subject of a separate report covering the entire project area.

INKING:

The topographer inked the high water line. The topographic signals, the triangulation stations, the rocks and reefs with the notes pertaining thereto were inked by personnel of the Norfolk Processing Office under the topographer's supervision. The remainder of the sheet was inked by the Norfolk Processing Office personnel.

This graphic control survey has been compared with contemporary hydrographic surveys. No further detailed review by the Hydrographic Survey is necessary at this time.
R.H. Carstens 6/5/46

Respectfully submitted,
Dale E. Sturmer
Dale E. Sturmer
Lieut. U.S.C.&G.S.

Approved, Forwarded:

C. D. Meaney
Lt. Comdr. U.S.C.&G.S.
Commanding Ship LYDONIA