U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey  Topographic

Field No.  K + C  Office No.  T-5929

LOCALITY

State  MAINE

General locality  Casco Bay

Locality  Harpswell Sound to Ragged I


CHIEF OF PARTY

C. D. Heaney

LIBRARY & ARCHIVES

DATE  January 17, 1944
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.

State MAINE

General Locality Casco Bay

Locality vicinity of Harpswell Sound

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

Vessel LYDIA

Chief of party C. D. Meaney

Surveyed by Dale E. Sturman

Inked by D. E. Sturman and W. 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

aro 208583
DESCRIPTIVE REPORT

to accompany

GRAPHIC CONTROL SURVEY

Field Letter "K"

CASCO BAY, MAINE

HARPSWELL SOUND

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 instructions
is March 11, 1942.

SCALE:

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

LIMITS:

This survey covers Harpswell Sound from Wills Strait
(between Orr Island and Bailey Island) to the southern end of
Ewin Narrows. It joins Survey Field Letters "G" and "H" on the
east. On the south east of Bailey Island, it joins Survey
Field Letter "G" and in Mericonedg Sound it joins the graphic
control surveys executed by the Ship OCEANOGRAPHER during the 1941
season. The area to the north has not yet been surveyed.

CONTROL:

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

SURVEY METHODS:

Standard planctable methods were used throughout, signals
located by cuts from triangulation stations, three point fixes
or resection points were used as additional control points.

TRAVESES:

Two traverses were run on this survey. One in The Gurnet,
from signal MIKE (locate by cuts) to signal LAG (also located by cuts).
The closing error of this traverse was 7 meters, which was mostly
in Azimuth. Field inspection showed that this closure was
mainly due to an error in orientation when cutting in signal MIKE.
This error in orientation was corrected and the signals adjusted
on the sheet.

The other traverse was in Long Cove from signal CCT to
signal URG. A cut was taken on signal URG from triangulation
station Harris and a double line of distances was carried down
Long Cove for a distance check. As excellent results had been
obtained in previous traverses this was considered to be a satis-
factory check.
HIGH WATER LINE:

Short stretches of high water line were rodded in at about one mile intervals. Wherever practical this was done adjacent to recoverable topographic stations. In inking the high water line the point located has been left uninked.

ROCKS AND REEFS:

As many rocks and reefs as practical were located during the time that the signals were being located on this survey. Because of the nature of the rocks and reefs it was deemed advisable to locate them only at or near low water. The time of low water is very short due to the large range of tide.

RECOVERABLE TOPOGRAPHIC STATIONS:

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

- BIG---Gable of house
- NUT----Flag Pole
- LAF----Flagstaff
- NO----Beacon
- ZULU---Standard disc (This station falls on sheet 685, page 3, control)
- MIS-----
- ARM-----
- BASO-----
- OLE-----
- PAL-----

MAGNETIC MERIDIAN:

The magnetic meridian shown on this sheet was taken with the declinometer for alidade #190, the index error of which is not known. The variation scaled from the sheet is 18° 43' 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 by the topographer. The topographic signals, the triangulation stations, the rocks and reefs with the notes pertaining thereto, the projection, the names of aids to navigation and the magnetic meridian 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
Lieut. U.S.C.G.S.

Approved, Forwarded:

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

This survey has been composed with contemporary hydrographic surveys. No further review by the Hydrographic Survey Section is necessary at the present time.

R.H. Carleton 6/25/46
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....G

REGISTER NO.

State .................................................. MAINE

General Locality .................................. Casco Bay

Locality ............................................. Vicinity of Bailey Island, Ragged Island, The Surnet

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

Vessel .................................................. LYDONIA

Chief of party ...................................... C. D. Keane

Surveyed by ........................................ D. E. Sturmer

Inked by .............................................. D. E. Sturmer and W. 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
DESCRIPTIVE REPORT
to accompany
GRAPHIC CONTROL SURVEY
Field Letter "G"
CASCO BAY, MAINE
EASTWARD OF BAILEY ISLAND

INSTRUCTIONS:
This survey was executed in accordance with the Director's Supplemental Instructions dated March 11, 1942 for Project CS-265, issued to the Commanding Officer, Ship LYDONIA.

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

LIMITS:
This survey includes the eastern part of Casco Bay from Bailey Island eastward to Ragged Island and northward to the entrances of The Curnet and Quohog Bay.
This survey joins survey Field Letter "F" on the east, Survey Field Letters "H" and "I" on the north, and on the west the surveys executed by the ship OCEANOGRAPHER during 1941 under Project CS-265.

SURVEY METHODS:
Standard planctonic survey were used throughout. No traverses were run.

HIGH WATER LINE:
Occasional stretches of high water line were located for comparison with the air photographs. In inking the high water line the point located was left uninked.

ROADS AND LOW WATER LINE:
As many rocks, reefs and as much low water line as practical were located during the time that the signals were being located. On small islets surrounded by reefs only the outer edge of the reef was located and the note "above M.H.W." noted on the islet.

RECOVERABLE TOPOGRAPHIC STATIONS:
Listed below are the recoverable topographic stations.
located on this survey. Descriptions for these are on form 526.

RUN------Gable of house
SLAT------" ""
LTD------Standard disc
ARMY------Army Observation Tower (CONFIDENTIAL)

MAGNETIC MERIDIAN:
The magnetic meridian shown on this survey was observed with
the declinatire for alidade #190, for which the index error is not
known. The variation scaled from the sheet is 19° W.

LANDMARKS FOR CHARTS:
Landmarks for charts is the subject of a separate report
covering the entire project area.

INKING:
The topographer inked in the high water line. The
topographic signals, the triangulation stations, the rocks and
reefs with notes pertaining thereto, and the projection 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.

Respectfully submitted,

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

Approved, Forwarded:

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

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

R.H. Carstens 6/5/46