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U. S. GOVERNMENT PRINTING OFFICE 102221

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. T-5962

REGISTER NO.

State MAINE

General Locality Casco Bay

Locality Wolf Neck - Great Chebeag Island

Scale 1:10,000 Date of photographs ~~survey~~ October 17, 1941

Vessel Air Photographic Survey Party No. 2

Chief of party Lieut. (j.g.) L.W. Swanson

Field Inspection ---- Lieut. (j.g.) E.B. Lewey

Surveyed by Radial Plot ----- J. Steinberg

Shoreline ----- J. Steinberg

Inked by Detail ----- J. Steinberg

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

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

Instructions dated Project No. 272 dated Jan. 12, 1942

Remarks: .....



# DATA RECORD T-5962

## PHOTOGRAPHS

Number	Date	Time	Scale	Alt.	Stage of Tide*
6652 to 6653	Oct. 17, 1941	9:47- 9:58 a.m.	1:10,000	Unknown	7.5 ft. above M.L.W.
6677 to 6680	"	10:05-10:18 "	"	"	6.6 " " " "
6687 to 6691	"	10:25-10:31 "	"	"	5.8 " " " "
6693 to 6694	"	10:36-10:41 "	"	"	5.2 " " " "
6711	"	10:52 "	"	"	4.5 " " " "
6767 to 6769	"	12:19-12:30 p.m.	"	"	0.8 " " " "

\*Tide from predicted tables for Portland, Maine, with time correction to Chebeag Point, Great Chebeag Island. Mean range 9.0 ft. spring range 10.4 ft.

Camera: U.S. Coast & Geodetic Survey Nine Lens (Focal length  $8\frac{1}{2}$  inches).  
All negatives on file in Washington Office.

## SUPPLEMENTAL SURVEYS

Graphic Control Sheets.....F.L. Peacock..... Season of 1941  
Hydrographic Surveys.....F.L. Peacock..... Season of 1941  
Field Inspection.....E.B. Lewey..... Nov. Dec. 1941  
Name Investigation.....None

## GENERAL INFORMATION

Chief of Party.....L.W. Swanson  
Projection by .....Ruling Machine, Washington Office...Date Unknown  
Projection checked by.....J.P.D. " " ...Date Unknown  
Control plotted by .....J. Steinberg .....Dec. 19, 1941  
Control checked by .....W.A. Rasure .....Dec. 27, 1941  
Radial plot by .....J. Steinberg .....Jan. 2-10, 1942  
Radial points pricked by.....J. Steinberg .....Jan. 2-10, 1942  
Additional radial points by.....J. Steinberg .....Jan. 12-31, 1942  
Shoreline inked by .....J. Steinberg .....Jan. 12-Feb. 8, 1942  
Detail inked by .....J. Steinberg .....Feb. 8-Feb. 16, 1942  
Scale .....1:10,000 .....(no scale factor)

## STATISTICS

Area (land)..... 7.0 Square statute miles  
Shoreline (more than 200 m. from opposite shore).... 39.0 statute miles  
Shoreline (less than 200 m. from opposite shore).... 3.5 statute miles  
Roads, streams and trails ..... 26.5 statute miles  
Time required for shoreline and detail ..... 29 days

## REFERENCE STATION

UPPER GREEN, 1933

Latitude 43 46' 15.115" (466.5 meters)  
Longitude 70 05' 04.917" (110.0 meters)  
x = 521,651.92 ft.  
y = 341,722.17 ft.

Datum: North American 1927

Plotting checked,  
F. H. McDeth

Survey as of date of Photos



DESCRIPTIVE REPORT  
TO ACCOMPANY  
AIR PHOTOGRAPHIC SURVEY SHEET NO. T-5962  
STATE OF MAINE  
CASCO BAY

WOLF NECK TO GREAT CHEBEAG ISLAND

Date of this report ..... February 20, 1942

INSTRUCTIONS:

This rough draft map drawing is a part of project HT-272, instructions for which are dated Jan. 12, 1942.

FIELD INSPECTION:

Field inspection covering this survey sheet was made by Lieut. Ernest B. Lawey during November and December of 1941.

PHOTOGRAPHS:

The nine lens photographs were taken with the U.S. Coast & Geodetic nine lens camera.

CONTROL:

The control used on this sheet consists of 27 U.S. Coast & Geodetic Survey, 12 U.S. Engineers Survey, 2 U.S. Geological Survey, and 8 U.S. Coast & Geodetic Topographic and Hydrographic stations.

The triangulation stations that are listed as follows are within the detailed limits of this map drawing.

U. S. Coast & Geodetic Survey

- South Freeport, Casco Castle, Tower, 1933
- Cast, 1941
- \*Swan, 1933
- Bartol Island, Flagpole, 1941
- \*Weston, 1941
- \*Wolf, 1941
- Wolf Neck, South Cupola, 1933
- \*Bustins, 1933
- Stockbridge Point, Brown House Chimney, 1933
- Staples, 1933
- \*Pound, 1941
- French, 1933
- \*Upper Green, 1933
- Little Moshier, 1933
- Cousins Island, Blaney Point, Red Brick House Chimney, 1933
- Cousins Island, Cornfield Point, Wharf, 1933
- Great Chebeag Island, Most Northerly House, Northeast Chy., 1933
- Great Chebeag Island, North End, Water Tower, 1933
- \*Littlefield, 1933
- Great Chebeag Island, Church Belfry, 1933
- Great Chebeag Island, East Gable, Central Landing, 1933
- Stockman Island, Beacon, 1933
- \*Whaleboat, 1933



U. S. Engineers

Jane (U.S.E.), 1937, 1941  
 \*Jane Shore (U.S.E.), 1937  
 Little Moshier (U.S.E.), 1933  
 \*Blaney (U.S.E.), 1933  
 \*Bar (U.S.E.), 1909

The triangulation stations that fall outside the limits of this sheet are listed as follows:

U. S. Coast & Geodetic Survey

Gosling, 1933  
 Bang, 1933  
 \*True, 1933  
 Harpswell Neck, Chy. at center of  
 green roofed bungalow, 1933

U.S. Engineers

\*Free (U.S.E.), 1937  
 \*Brown (U.S.E.), 1937  
 Fogg (U.S.E.), 1937  
 \*Parker (U.S.E.), 1937  
 \*Status (U.S.E.), 1937  
 \*Doyle (U.S.E.), 1933  
 \*Sunset (U.S.E.), 1909

U. S. Geological Survey

1531 (Freeport Quadrangle)  
 1536 " "

All triangulation marked with the asterisk symbol was pricked direct from the graphic control sheets. Those not marked were plotted in the usual manner. Stations marked with bar were pricked on photographs and used.

U. S. Coast & Geodetic Survey  
Topographic and Hydrographic Stations

Puss, 1941  
 Sox, 1941  
 Jane, 1941  
 Int, 1941  
 Colt, 1941  
 Wise, 1941  
 Tank(Elevated) Great Chebeag Island, 1941  
 Tank(Elevated) Great Chebeag Island, 1941  
 House(Octagonal) Bustins Island, 1941

All topographic and hydrographic stations with the exception of Sox, 1941, were pricked direct from the graphic control sheets and are shown with a 2 $\frac{1}{2}$  mm. circle.

Hydrographic station Sox, 1941 as plotted from position given on photostat copy of stations to be shown on chart No. 201, falls in water area. It is recommended that the position of this station be checked. } Falls on T-5959 from G.C. sheet 6843-A

Station Great Chebeag Island, North End, Water Tower, 1933 could not be found on any photograph at the position given for this station.

Station is in a grove of trees. Not visible under stereoscope.



A number of natural objects used as hydrographic signals by the hydrographic party were pricked direct from the graphic control sheets and are identified by red circles.

Those that were used as additional control for this map drawing are shown with a  $1\frac{1}{2}$  mm. circle.

#### RADIAL PLOT:

The photographs on this sheet are fixed by existing triangulation plotted from computed positions, topographic and hydrographic stations, and hydrographic signals pricked direct from graphic control sheets.

Each photograph was laid separately so that the radial lines through the control on the photographs resected as nearly as was possible the triangulation and other control stations as plotted or pricked from the graphic control sheets on the map drawing. The center of the photograph was then pricked on the map drawing and is indicated by double purple circles.

Map drawing T-5963 was joined to sheet T-5962, and using all the control pricked on photographs 6687, 6768 and 6769 not covered by map drawing T-5962, a strong fix of these photographs was obtained. The centers of photographs 6711 and 6794 were also fixed in the same manner, using map drawing T-5960 which covers the control on these photographs not covered by sheet T-5962.

Good resections on triangulation and other control stations were found possible only on those stations which were natural objects and easily identifiable on the photographs. The flight lines at adjacent photo centers were found to hold 100% with most of the photographs.

Tilt and errors in matching of the outer chambers of some of the photographs caused some difficulty in locating the photo center on the map drawing. The following photographs were found difficult to orient.

- 6652 - Chamber 3 poorly matched.
- 6678 - Chamber 5 appears twisted.
- 6768 - Chamber 1 appears twisted.
- 6768 - Tilted, center chamber not used. Chamber 8 poorly matched.
- 6688 - Chamber 5 twisted. Chamber was adjusted when drawing radials.

Attention is called to the fact that all the photographs used on this map drawing have their numbers in the wrong corner.

DETAIL: Date of details is as of photographic date - October, 1941.

The shoreline and adjacent areas were detailed in accordance with the instructions for the planimetric surveys compiled from aerial photographs. Because of the great amount of elevation and bluffs along the shoreline, the radial points used were in general on or near the high water line. The scale of the photographs was such that most of the shoreline was delineated with the use of the projector.

All rocks awash identified by field inspection or identified with certainty on two or more photographs, which are shown with dotted circles, were radially plotted. Others are indicated without the dotted circle.



Rocks baring were outlined and the amount of baring being noted. No sunken rocks have been shown by the compiler. All sunken rocks shown in blue ink on the back of this map drawing were taken from the hydrographic boat sheets.

Doubtful areas in the photographs indicating the presence of sunken rocks, sunken ledges, or shoals have been outlined and labeled foul or shoal.

Roads were detailed according to the field inspector's notes as shown on the field inspection prints. All roads, except trails, are indicated with the center line only and are to be shown 6 meters wide. Trails are shown with a single dashed line.

Great Chebeag Island which was completely detailed shows all buildings of importance. Elsewhere only the buildings along the shoreline were shown.

Wooded areas not fully shown have been outlined and labeled.

Due to the lack of overlap between flights in the northeast portion of this map drawing it was necessary to attach a dog ear for photograph center 6770 in order to secure sufficient radial points to detail the area around Flying Neck.

#### RECOVERABLE HYDROGRAPHIC SIGNALS:

Recoverable hydrographic signals covering this map drawing have previously been submitted.

#### RECOVERABLE TOPOGRAPHIC STATIONS:

Recoverable topographic stations covering this map drawing have previously been submitted.

#### LANDMARKS FOR CHARTS:

A list of landmarks has been prepared on forms No. 567 covering Chart No. 201 for charting and deletion. These have been previously submitted to the Washington Office by Lieut. Commander Fred. L. Peacock.

#### GEOGRAPHIC NAMES: *LN*

Geographic names covering this map drawing are listed on form M234 in the appendix.

#### COMPARISON WITH PREVIOUS SURVEYS:

Chart No. 201 and 315:

Due to the difference in scale between this map drawing and the above mentioned charts, small differences could not be ascertained.

Moshier Ledge, Green Island Ledge, Whaleboat Ledge and Little Whaleboat Ledge are not visible on any photographs to permit noting.



## COMPARISON WITH PREVIOUS SURVEYS (continued):

Photostat of compilation of previous surveys as compiled by the chart division:

This survey is in fair agreement with compilation sheet No. T-5962 except for the following noted differences.

The wharfs at Lat. 43 49' 06" Long. 70 06' 36" and Lat. 43 49' 48" Long. 70 06' 26" are now destroyed. ✓

Just west of Moore Point the previous survey shows several rocks awash. These rocks could not be identified on any photographs and ~~are~~ not shown on any of the hydrographic boat sheets. ✓

At Lat. 43 47' 58" Long. 70 06' 51" and Lat. 43 47' 54" Long. 70 07' 06" are reefs not shown on the previous survey.

Several rock awash symbols appearing on the previous survey at Googins Ledge do not show on any of the photographs or hydrographic sheets of this map drawing.

At the northwest end of Bowman Island the shoreline has built up a max. of 3 mm.

Southwesterly from Flying Point the previous survey shows a group of rocks awash. These same rocks are shown on this map drawing as rocks baring and as reefs.

At Lat. 43 48' 26" Long. 70 03' 45" the rock awash as shown ~~is~~ now a baring rock.

The rocks shown on the previous survey at Lat. 43 48' 20" Long. 70 04' 33" could not be identified on any photographs.

The rock awash shown at Lat. 43 47' 57" Long. 70 04' 41" is now a baring rock.

Rocks awash at the southwest end of Bustins Island are now shown as baring rocks.

Rocks awash appearing on the west side of Bustins Island could not be identified on any photographs used to compile sheet T-5962.

The group of rocks awash between Lat. 43 47' 18" long. 70 03' 49" and Lat. 43 47' 04" Long. 70 04' 09" are now shown as rocks baring and rock ledge.

A rock shown baring at Lat. 43 47' 09" Long. 70 06' 20" is now shown as a rock awash 2.5 mm. further south.

At Lat. 43 45' 58" Long. 70 03' 55" the rock awash is now shown 6 mm. southeasterly.

## COMPARISON WITH PREVIOUS SURVEYS (continued):

At Lat. 43 45' 45" Long. 70 04' 06" the rock awash is now shown ✓  
3 mm. southeasterly.

At Lat. 43 50' 05" Long. 70 06' 08" the shoreline has built up a ✓  
max. of 3 mm.

At Lat. 43 48' 51" Long. 70 05' 44" two of the three rocks awash  
could not be identified on any photographs used in the compilation of this  
map drawing.

At Lat. 43 44' 21" Long. 70 03' 12" the baring rock shown on the  
previous survey is now indicated as a rock ledge.

On Janes Island from Lat. 43 47' 27" Long. 70 07' 31" northeasterly  
about 410 meters the shoreline has built up to a max. of 4 mm.

Several reefs now shown southeast of Blaney Point do appear on the  
previous survey.

All inland features common to the two surveys are in generally fair  
agreement.

## Hydrographs Sheets:

Slight disagreements between the hydrographic survey and map drawing  
T-5962 are indicated by the use of blue ink applied on the reverse side of  
Sheet T-5962.

The solid blue line is the zero <sup>CURVE</sup>~~line~~ on the hydrographic boat sheet.

The purple line on the west side of Great Chebeag Island is the high  
water line taken from the topographic survey sheet.

It is to be noted that there is a disagreement between the hydrographic  
and topographic surveys in respect to the position of two rocks awash  
west and southwest of Division Point.

## JUNCTIONS:

Sheet No. T-5964, N. side. The shoreline only has been completed at  
the time of writing of this report. The agreement of the shoreline is good.

Sheet No. T-5963, E. side. The shoreline and interior detail are in  
good agreement.

Sheet No. T-5960, S. side. The shoreline and interior detail are in ✓  
good agreement.

Sheet No. T-5961, W. side. The shoreline only has been completed at ✓  
the time of writing of this report. The agreement of the shoreline is good.

Sheet No. T-5959, W. side. The shoreline and interior detail are in ✓  
good agreement.

## RECOMMENDATION FOR FUTURE SURVEYS;

This sheet is believed to be complete in all detail of importance for charting and no additional surveys are required.

The probable error of radial points and of well defined objects along the shoreline is not greater than 0.5 mm. The error of inland radial points and detail of importance is not greater than 1.0 mm.

Respectfully submitted,

*Joseph Steinberg*

Joseph Steinberg  
Sr. Photogrammetric Aid (Field)

*Sept. 23, 1942*

Approved:

*L.W. Swanson*

L.W. Swanson  
Chief of Party



## Remarks.

## Decisions

1	Pending with U.S.G.B. ok to use this name pending its decision.	438701
2		"
3		"
4		438700
5		"
6		438700
7		No name
8		438701
9	See changed position on sheet.	438701
10		437701
11		"
12		"
13	* Spelled Chebeague Point See note line 24, this sheet.	437700
14	Application changed on sheet.	438700
15		438700
16		"
17		"
18	Lanes is ok. # Spelled Lanes Island on chart No. 201	437701
19		437700
20		437701
21		437700
22		437701
23		437701
24	Pending with U.S.G.B. leave space for 2 letters in case chebeague is approved * Spelled Great Chebeague Island	437701
25	# Spelled Stockmans Island	437700
26	% Spelled Goosenest	"
27		"

# GEOGRAPHIC NAMES

Survey No. T-5962

#1

GEOGRAPHIC NAMES											
Survey No. T-5962											
#1											
Name on Survey											
		</									

## Remarks

## Decisions

1		437 700
2		437 700
3		"
4		437 700
5		437 700
6		437 700 U.S.G.B
7		" "
8		"
9		438 700
10		438 700
11	* Spelled Williams Island	438 700
12	See note line 24, #1.	437 701
13		437 701
14		438 700
15		438 701
16	# Spelled Wolfs Neck	438 700
17	% Called Flying Point Neck = main village	See line 14, #1
18	\$ Spelled Chebeague Island See note line 24, #1.	437 701
19		437 701
20		437 700
21	See above	437 700
22	For title	436 700 U.S.G.B
23		
24		
25		
26		
27		
M 234		



## GEOGRAPHIC NAMES

Survey No. T-5962

#2

Name on Survey

	A	B	C	D	E	F	G	H	K	
On Chart No. 201 & 315										
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										
U.S. Coast Pilot										
Little Birch Island	x		x						x	1
Whaleboat Island	x		x						x	2
Little Whaleboat Island	x		x						x	3
Upper Green Islands	x									4
French Island	x		x						x	5
Bustins Island	x		x						x	6
Little Bustins Island	x		x						x	7
Bustins Ledge	x									8
Googins Ledge	x									9
Pettingill Island	x		x							10
Williams Island	x		*							11
Chebeag Bar	x									12
Old Tom Rock	x									13
Sow and Pigs	x									14
South Freeport	x		x						x	15
Wolf Neck	x		#							16
<del>Flying Neck</del>	%		x							17
Chebeag Island			\$						x	18
Central Landing			x							19
Birch Island Ledge	x									20
<del>French II</del>										21
Casco Bay										22
										23
										24
										25
										26
										27

Names underlined in red approved

by L. Heck on 6/27/42

DIVISION OF CHARTS  
SURVEYS SECTION

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-5962

Graphic Control Surveys

T-6845	(1:10,000)	1941
T-6848	(1:10,000)	1941
T-6849	(1:10,000)	1941
T-6850	(1:10,000)	1941

In this area, graphic control surveys and hydrography preceded the air photographic survey. Topographic stations from the graphic control surveys have been used to control the photographic plot. The shore line, in pencil, on the graphic control survey was transferred from old surveys and is superseded by details on T-5962. All permanent details located by the graphic control surveys are now shown on T-5962.

Hydrographic Surveys

H 6728	(1:10,000)	1941
H 6731	(1:10,000)	1941
H 6732	(1:10,000)	1941

There are no discrepancies as regards description or position of details between the Hydrographic Surveys and T-5962. Low water line has been accepted as shown on the Hydrographic Surveys, and has been transferred ~~from~~ T-5962 from those surveys. Shoal lines indicated on the celluloid drawing T-5962 should be ignored and will not be shown on the printed copy. The Hydrographic Surveys show numerous rocks awash not located by T-5962. These have not been transferred to T-5962. High water line on T-5962 has been compared with sections of high water line shown on the graphic control surveys and corrected where necessary. This high water line, as shown on T-5962 should be used for both the charts and Hydrographic Survey.

Previous Topographic Surveys

T-847	(1:10,000)	1867
T-918	(1:10,000)	1861
T-919A	(1:10,000)	1864

T-5692 supersedes the previous surveys for charting purposes. Many of the rocks awash shown on the previous surveys are not on T-5962, but are covered by the Hydrographic Surveys. Contours shown on the previous surveys are not covered by T-5962. However, in charting this area, contours will be taken from new Geological Survey maps.



Comparison with Charts

1204	1:80,000
315	1:40,000
201	1:25,000

T-5962 has been applied to Chart 201 prior to this review. Minor changes made in the shore line as shown in red on the celluloid T-5962, are not sufficiently large to affect the chart.

In comparison <sup>with</sup> of the charts, T-5962 shows numerous minor shore line details for correction of charts 1204 and 315.

Field Inspection and Detailing

The shore line as inked on the field inspection photographs has been somewhat generalized with the consequent omission of small details. The office compilation did not follow this outline exactly, and has been made with more exact attention to details.

Sheet Limits and Publication

The Southern limits of T-5962 have been changed to Latitude 43 degrees, 45 minutes. T-5962 shows only shore line, and will not be published. This area is covered by new Geological Survey quadrangles which furnish interior details.

Reviewed in office by: *F.H. McBeth*

*Inspected by B.G. Jones 6/42*

Examined and approved:

*K.T. Adams*

Chief, ~~Section of Field Records~~  
~~Division of Photogrammetry~~

*Robert W. May*  
Chief, ~~Division of Charts~~  
Nautical Chart Branch.

*L.B. Jordan*

Chief, ~~Section of Field Work~~

*Chief, Division of Charts.*

*Raymond C. Jones*  
Chief, ~~Division of Hydrography~~  
~~and Topography~~

*Coastal Surveys*