

8514

Origin=1

1204-2

Form 604	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey <u>Air Photographic Topographic</u>	
Field No. _____	Office No. <u>T-8514</u>
LOCALITY	
State <u>Maine</u>	
General locality <u>Casco Bay</u>	
Locality <u>Harpwell Island</u>	
<u>1943</u>	
CHIEF OF PARTY	
<u>Fred. L. Peacock</u>	
LIBRARY & ARCHIVES	
DATE <u>September 8, 1948</u>	

B-1870-1 (1)++

8514

DATA RECORD

T-8514

Quadrangle (II):

South Harpswell $7\frac{1}{2}$ min quadrangle

Project No. (II):

CS-303-A

Field Office:

Sanford, Maine

Chief of Party:

F. L. Gallen

Compilation Office:

Baltimore, Maryland

Chief of Party:

Fred. L. Peacock

Instructions dated (II III):

May 1st, 1943

Copy filed in Descriptive

~~Report No. T~~ (VI)

Div. of Photogram. Office Files

Completed survey received in office: 17 Jan. 1944

Reported to Nautical Chart Section:

Reviewed: 2-16-44

Applied to chart No.

3201 Date: Jan-Apr 1945
201
315

Redrafting Completed: 28 Mar. 1944

Registered: 27 April, 1948

Published: 1944

Compilation Scale: 1:20,000

Published Scale: 1:25000

Scale Factor (III): none

Geographic Datum (III): N. A. 1927

Datum Plane (III): Mean Sea Level

Reference Station (III): Brown Cow, 1933

Lat.: $43^{\circ} 41' 45.243''$ 1396.3m Long.: $70^{\circ} 04' 20.910''$ 468.2m Adjusted
~~Unadjusted~~

State Plane Coordinates (VI): West Zone Maine

X = 524,912.02 ft Y = 314,400.48 ft.

Military Grid Zone (VI) "A"

Also Special Harbor Defence Grid

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
13670	4/18/43	11:40 a.m.	1:20,000	8.2' above M. L. W.
13671	4/18/43	11:40 a.m.	1:20,000	8.2' above M. L.W.
6706	10/17/41	10:49 a.m.	1:10,000	4.4' above M. L. W.
6708	10/17/41	10:50 a.m.	1:10,000	4.3' above M. L. W.
6712	10/17/41	10:53 a.m.	1:10,000	4.3' above M. L. W.
6762	10/17/41	12:13 p.m.	1:10,000	1.7' above M. L. W.
6764	10/17/41	12:15 p.m.	1:10,000	1.6' above M. L. W.
6843	10/17/41	1:51 p.m.	1:10,000	0.2' above M. L. W.
6844	10/17/41	1:52 p.m.	1:10,000	0.2' above M. L. W.

Tide from (III); Tables of predicted tides, reference station, Portland, Maine;
with corrections for South Harpswell, Potts Harbor.

Mean Range: 8.9' Spring Range: 10.2'

Camera: (Kind or source) U. S. Coast & Geodetic Survey nine lens camera
(focal length 8 $\frac{1}{4}$ ")

Field Inspection by: Morris W. Burr date: Aug., Sept., 1943
W. W. Doeringsfeld, Jr.

Field Edit by: L. G. Chambers date: Dec., 1943

Date of Mean High-Water Line Location (III):

Same as date of photographs

Projection and Grids ruled by (III) Washington Office date: Unknown

" " " checked by: Washington Office date: Unknown

Control plotted by: See Descriptive Reports T-5960, T-5962, T-5963 date: -----

Control checked by: " date: "

Radial Plot by: " date: "

Detailed by: Ruth E. Rudolph date: 11/10 - 11/18/43

Reviewed in compilation office by: William H. Van Loon date: 11/18 - 11/23/43

Elevations on Field Edit Sheet
checked by: L. G. Chambers date: Dec., 1943

STATISTICS (III)

Land Area (Sq. Statute Miles): 6 Miles

Shoreline (More than 200 meters to opposite shore): $4\frac{1}{2}$ Miles

Shoreline (Less than 200 meters to opposite shore): $2\frac{1}{4}$ Miles

Number of Recoverable Topographic Stations established: 3 Tidal Bench Marks
(transferred from field inspection photographs)

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: Unknown

Roman numerals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname

and initials (not initials only).

Remarks:

General Procedure in the Production of Topographic
Quadrangles for the War Department

7-8514

This quadrangle, together with similar adjoining maps produced under Project C.S.303, was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

The general procedure in the production of this and the adjoining quadrangles was:

PREPARATION OF BASE MAPS

Assembly into quadrangle base sheets by photographic means of previously produced planimetric maps of the area. These maps were compiled by this Bureau from aerial photographs taken in 1941 7-5958
7-5960
~~and were published in~~ on the scale of 1:10000
Lithographic prints of the quadrangle base sheets on cloth-mounted paper were furnished to the field parties and similar prints in red ink on celluloid sheets were furnished to the compilation office.

FIELD SURVEYS

Aerial photography with the Coast and Geodetic Survey nine-lens camera, with airplane and flight crew furnished by the U. S. Coast Guard. The photographs were taken to the scale of 1:20,000.

Ground inspection of the photographs for identification of control points, and classification and clarification of planimetric details on the photographs. The field parties were permitted to make field inspection notes either on the photographs or on the planimetric base sheet.

Contouring by planetable, directly on the photographs or on the planimetric base sheet at the option of the field party. The contouring for this quadrangle was done on the

Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, driveways, and numerous other points identifiable on the photographs.

COMPILATION OF MANUSCRIPT

Revision of the planimetric base map from the new photographs and addition of contours and corrections obtained by the field parties. No radial plot was made for this work.

FIELD EDIT

Comparison of a copy of the corrected manuscript with the ground. This included inspection for completeness and accuracy as well as the location by planetable methods of additional details, checking of nautical and aeronautical aids to navigation, etc.

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blue-line" copies of the manuscript. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680 or 1:25,000.

FIELD INSPECTION REPORT
QUADRANGLE T-8514
Project CS-303-A
F. L. Callen, Chief of Party

1. DESCRIPTION OF AREA:

The area covered by quadrangle T-8514 lies entirely within Cumberland County and includes the major portion of Great Chebeague Island, Hope, Cliff, Jewell, Brown Cow, Sand, Rogues, Stave, Ministerial, Bates, Crow, Cushing, Goosenest, Stockmans, Little Birch, Whaleboat, Barnes, Horse, Upper Flag, Eagle, Little Mark, Great Mark, Haskell, Bailey, Jaquish, Ram, Thrumcap, Inner Green, and Outer Green Islands, Abner Point, Ash Point, and Basin Point, Haddock Rock and Whale Rock, and South Harpswell. The land forms in this quadrangle all have a structural trend (strike) of about 35° east of north. This trend is perpendicular to compression applied to the area during the various Appalachian diastrophisms and is not attributed to any glacial action as it is supposed by many inhabitants of the area. Outcrops of schistose rocks throughout the area bear out this fact. Streams of all the islands except Great Chebeague are parallel to the general trend of the area and are chiefly intermittent in drainage. Great Chebeague Island has very little drainage and this is perpendicular to the shoreline. Drainage in the vicinity of South Harpswell is essentially the same as that of Great Chebeague. There are no farms within the area of this quadrangle as there is very little soil or mantle upon the rocky surface to support the growth of crops. Also the growing season of the area is too short to permit any farming of commercial extent. The vegetation of the area is chiefly small growths of pine and deciduous trees. It also has been noticed that only islands that are 60 feet or more above mean sea level have any forest whatever. This can be attributed to the wind and wave action of the ocean. Those islands that are not covered with forest usually have a heavy mat of shrubs and brush which is almost impossible to penetrate. The highest elevation found in this quad was in the center of Great Chebeague Island--176 feet.

2. COMPLETENESS OF FIELD INSPECTION:

The field inspection is thought to be complete. Buildings, roads, and vegetation have all been classified. Also military boundaries, churches, schools, and cemeteries have been labeled and physical features designated with proper symbols. Only those buildings which are circled on the photos are to be shown on the map drawing; all others are to be deleted. Trails are shown with a dashed red line, thus - - - -. It may be noted that Jewell Island is now an Army fort. At the request of the Commander of Jewell Island all military barracks, houses, and buildings have not been shown on the photo and are not to be placed on the final map drawing. Therefore, only the main military roads, such as have been designated on the photo, are to be shown on the map drawing. Other army barracks, such as those on Great Chebeague, are supposed to be temporary and will remain only for the duration of the present war. There are no main bridges in the quadrangle and all culverts have been designated and will not have to be checked by a field edit party. Field inspection within the quadrangle was done with the idea of cutting the work of the field edit party to a minimum.

3. INTERPRETATION OF THE PHOTOGRAPHS:

The photographs used for mapping this quadrangle are excellent in obtaining stereopsis and picking out detail. Deciduous trees and brush show up grayish in color while the evergreen growths are distinctly black.

4. HORIZONTAL CONTROL:

The horizontal control for this quadrangle was handled in accordance with instructions for project 303-A.

5. VERTICAL CONTROL:

At the time of this survey, there were no bench marks on Jewell, Cliff, Bates, Ministerial, Stave, Rogues, Sand, Hope, Cushing, Crow, Goosenest, and Stockmans Islands. However, three bench marks were recovered in South Harpswell and pricked on the topo photos. These bench marks were used to tie in the planetable traverses in this vicinity. All elevations on the above named islands were obtained from a planetable traverse run from a level line on Great Chebeague Island in the northwest part of the quad. This traverse had a closure of 0.5 of a foot and therefore every elevation placed on these islands can be assumed to be correct to the nearest foot shown.

6. CONTOURS AND DRAINAGE:

Very little sketching of the contour was done in heavy wooded areas and in areas where stereopsis was ineffective. In areas where stereopsis could be obtained, sketching was resorted to only after adequate control had been obtained. Therefore the contours of this quadrangle are well within the vertical and horizontal limits. The planetable was used wherever possible but in many instances hand level lines and pacing was resorted to in order to determine properly the topography in thickly wooded area. It may be noted that the drainage placed on the photographs in the office was in most places in error and had to be deleted. Much of the present drainage was located by stereoscope prior to field work by the party and then checked in the field by planetable shots and by pacing. Closed contours are occasionally shown below the contour interval in order to express properly the topography of the area.

7-13. The items under these headings in the field inspection report do not apply to this area.

14. ROAD CLASSIFICATION:

Roads were classified according to instructions issued by the Army War College, Washington, D. C.

15. BRIDGES AND CULVERTS:

There are no main bridges in this quadrangle. All culverts have been designated as such on the photographs.

17. BOUNDARY MONUMENTS AND LINES:

This quad lies wholly within the limits of Cumberland County, Maine, and is sub-divided into the towns of Cumberland, Harpswell, and Portland. These boundaries are shown on the compilation for this quad, which is submitted along with the photographs for the area. These boundaries have been determined from maps secured at the City Hall in Portland. The boundaries were plotted directly from these maps and verified by the City Engineer, who has had much experience in surveying in the vicinity of Casco Bay. Therefore all boundaries shown on the compilation should be transferred directly to the map drawing for this quad. A number of the islands have been fortified, in part or whole, but at the time of this survey no boundary lines were available, as these fortifications are probably for the duration of the war only. However Jewell Island, at the time of this survey, was completely fortified and no buildings or detail are to be shown, except that noted on the photos, by order of the Commanding Officer.

18. GEOGRAPHIC NAMES:

Geographic Names for this quadrangle are the subject of a special report by A. J. Wraight in project CS-303-A.

19. JUNCTIONS:

Junctions with T-8508 to the north, T-8515 to the east, and T-8513 to the west have been made and are in agreement. There are no junctions to the south.

20. PHOTOGRAPHS USED:

Photographs used in surveying this area are:

1:20,000-----13670 and 13671.

1:10,000-----6706, 6708, 6712, 6762, 6843, and 6844.

Approved and forwarded by:

F. L. Gallen

F. L. Gallen
Chief of Party

Submitted by:

W. W. Doeringsfeld, Jr.
per F.L.G.

W. W. Doeringsfeld, Jr.
Jr. Topo. Engineer

WOODS AND BRUSH

TYPE

D	Deciduous
E	Evergreen
Cy	Cypress

CONCEALMENT

Z	Trees 10 feet or more in height, and thick enough when in foliage to conceal troop and vehicles.
Y	Brush and undergrowth thick enough to impede foot troops and conceal troops lying down.
X	Scattered trees not thick enough to conceal troops.
W	Scattered brush not thick enough to conceal troops.

PHYSICAL FEATURES

HG	Higher ground - usually appears in light tone on photograph; either wooded or cultivated area; may be scrub trees or brush. (usually not symbolized on photographs.)
LG	Low areas - generally appears dark on photograph becomes swampy during rainy season; often covered with dense growth of brush.
SW	Swamp - ground covered with water or boggy most of the time; lower in elevation than LG; wooded and/or brush.
M	Salt marshes

NOTE: The above areas are not outlined but sufficient notes are made on each photograph so that the variation in tones can be correctly interpreted in the office.

BRIDGE AND TUNNEL CLASSIFICATION

<u>First Symbol</u>	<u>One Lane</u>	<u>Unlimited</u>
Capacity	5 mph.	
A	50 tons	25 tons
B	25 tons	18 tons
C	18 tons	13 tons
D	10 tons	7 tons
E	6 tons	4 tons
F	Light vehicles only	

Second Symbol

Vertical Clearance	A - over 14 feet
	B - over 13 feet
	C - over 12 feet
	D - over 11 feet, etc.

Third Symbol

Horizontal Clearance ^{width}	A - over 18 feet
	B - over 17 feet
	C - over 16 feet
	D - over 15 feet, etc.

Fourth Symbol - Year of Classification

ROAD CLASSIFICATION FOR MAPS OF ALL SCALES

CLASS	LABEL	STRUCTURE	LOADING
1	Dependable hard-surface heavy duty road.	Concrete, asphaltic concrete bituminous Macadam, H-15 type structures.	Will bear heaviest loads with little maintenance.
2	Secondary, hard-surface all-weather road.	Surface-treated, oil-ed gravel, waterbound Macadam, structures generally lighter than H-15 but sturdy.	Will bear fairly heavy military loads in all weather if maintained.
3	Loose-surface graded, dry-weather road.	Gravel or stone surface stable material, selected sand-clay, etc. Drained and graded.	Will bear light military loads in good weather.
4	Unimproved road	Graded and drained earth, with very light structure.	Generally unsuitable for military loads.
4U	Truck road	Woods roads, farm roads, etc. over which a standard gage vehicle can be driven.	
5	Trail	(Horse trails, foot trails, etc.)	

Roads with more than two (2) lanes are indicated by note along road, e. g. 3 LANE. Change in lanes shown by tick at point of change. Main roads have two lanes unless otherwise marked.

Private roads are designated by the letter P after the road classification.

BUILDINGS

B - barn
Bldg - Building
Bo Ho - Boat House
Ch - Church (give name)
Co Ho - Court House (give name)
P.O. - Post Office (give name)
Sch - School (give name)
Hsp - Hospital (give name)
RR Sta - Railroad Station
Sto - Grocery store or gas station
F Sta - Power Station

BOUNDARIES

BDY - Boundary
F B - Fire Break
Hdg - Hedge
Park - Park
Cem - Cemetery
Co - County

LANDMARKS

FT - Fire Tower (give name)
TT - Transmission Tower
RT - Radio Tower or mast
Air Bn - Airway Beacon
Bn - Non-lighted aid to navigation
Lt - Lighted aid to navigation
Tk - Tank
Tk elev - Tank elevated on structure
Stk - Stack

GENERAL

X - delete; except where it
pertains to elevations.
Use only the abbrev. listed
on this page. Do not make
up abbreviations.

SHORE LINE

HWL - Mean high water; fast land
LWL - Low water line
LL - Marsh shore line
M - Marsh
Mf - Marsh grass in water
Dk - Dock
Pier - Pier
Sea W - Sea Wall
Bulkhd - Bulkhead
Jet - Jetty
Dol - Dolphin
Pile - Pile
S - Sand
Mud - Mud

Rk - Rock or Rocky
Sty - Stony
Cone - Concrete
Wo - Wood
Slf - Sluff
Dune - Dune

STREAMS AND PONDS

D - Largest ditches only
DX - Small ditch (delete)
IS - Intermittent stream
PD - Probable drainage
Cr - Creek
Ca - Canal
Cv - Culvert
Ley - Levee
Dam - Dam
P - Pond
IP - Intermittent pond

VEGETATION

Gr - Grass
Sw - Swamp
Cy Sw - Cypress Swamp

Triangulation on published map :

Brown Cow, 1933 r 1941
 Bang, 1933 r 1941
 Whaleboat, 1933 r 1941
 Mericoneag Hotel Flagstaff, 1941 (d)
 Jacquish, 1933 r 1941
 Little Mark Is, monument, 1852, 1933, r 1941
 Eagle Is. House Chimney, 1933, r 1941
 + Drunkers Ledge Beacon, 1933 (so listed in G. P. p. 45)
 Halfway Rock Lighthouse, 1904 r, 1941
 Crotch, 1933 r, 1941
 Crotch Is., N. End, Chimney, 1933 r, 1941
 Crotch Is., W. Neck, S. End, House Chimney, 1933, r. 1941
 *Hope, 1933 r. 1941
 Littlefield, 1933 r, 1943
 Bates, 1933 r, 1941
 Stockman Is. Beacon, 1933 r. 1941
 Jewell, 1933 r. 1941
 Haskell Is. 1854, 1911, 1933, r. 1941
 Green Is. 1852 r. 1941

*Changed into a Hydrographic station, since it was established by a three-point fix, and is probably not of third order accuracy.

+ "Drunkers", G. P. p. 45 ; "Drunker" on H-6661 ; "Western Drunker Ledge Day Beacon", *Sketch 1947 p. 632*

Triangulation added to vault copy at time of registration

Bailey Is., S. End, Chimney at
 center green-roofed house, 1933, r 1942
 Bailey Is., S. End, East Gable white bungalow, 1933, r 1942
 Great Chebeag Is, Church Belfry 1941

Hydrographic & Topographic stations on map (no fms 524 found)

BAND
 JUNK OF PORK LT.
 CROT
 HOPE (see note above)
 ELM
 PUP
 DOE
 AJAX
 TOL
 JANE
 LONG
 TANK

under T-5959, 5960,
 or H6661, H6772, or
 T-8514)

(Apr. 1948 LTS)

Bench Marks

Tidal B. M. 2 (at South Harpswell)

26 CONTROL:

The Compilation Office was furnished a red line print on celluloid, scale 1:20,000, of the reproduction of the 1:10,000 scale planimetric maps for Surveys Nos. T-5960, T-5962 and T-5963 covering the area of the Map Manuscript for Survey No. T-8514.

Recovery notes for the numerous triangulation stations within the limits of this Map Manuscript were not furnished the Compilation Office. It is not known if any of these stations have been destroyed since the date the original planimetric maps were made.

27 RADIAL PLOT:

No radial plot was run for this Map Manuscript as instructions dated May 1, 1943 require only the revision of the reproduced planimetric maps, and the addition of 20 ft. contours as determined by the Field Party.

28 DETAILING:

The Compilation Office was furnished two nine lens office photographs and two nine lens field photographs, scale 1:20,000. Seven nine lens field photographs, scale 1:10,000, were also furnished. All the field photographs furnished the Compilation Office except one, No. 6764, scale 1:10,000, showed field inspection data. All of the field data shown on the two 1:20,000 field inspection photographs and some of the field data shown on the 1:10,000 photographs was transferred to the two 1:20,000 office photographs. These were then oriented under the Map Manuscript and the revision was accomplished by using points of common detail of the 1:20,000 photographs and the original reproduced planimetric maps. In the area of this Map Manuscript, not covered by 1:20,000 photographs, the detailing was accomplished directly from the 1:10,000 field photographs, using the vertical projector for the reduction.

All roads, trails, and buildings have been detailed or deleted according to field inspection data. Elevations, tree classifications, and contours have been shown. It is the belief of the Compilation Office that all physical and cultural features in the area of this Map Manuscript have been brought up to the date of the field inspection data furnished the Compilation Office.

Corrections on this Map Manuscript have been confined to the area within the limits of the $7\frac{1}{2}$ minute quadrangle.

29 SUPPLEMENTAL DATA:

The following previous topographic surveys by the U. S. Coast & Geodetic Survey have been made covering portions of this Map Manuscript:

<u>Survey No.</u>	<u>Dated</u>	<u>Scale</u>
T-466	1854-57-65	1:10,000
T-755	1855-59	1:10,000
T-756	1856	1:10,000
T-757	1856-58	1:10,000
T-847	1860-61	1:10,000
T-919a	1864	1:10,000
T-1056	1867	1:20,000

None of the Surveys listed above were available to the Compilation Office.

Two U. S. Geological Survey maps, one of Casco Bay 15 min. quadrangle, Cumberland County, Maine, the other of Freeport, Maine, 15 min. quadrangle, scale 1:62,500, were available.

30 MEAN HIGH-WATER LINE:

The stage of tide of all the nine lens photographs furnished the Compilation Office was computed before revision of detail was attempted.

The shore line of the nine lens photographs was found to be in good agreement with the shoreline shown on the red line print on celluloid of the original reproduced planimetric maps.

31 LOW-WATER AND SHOAL LINES:

The Compilation Office did not add or delete any low-water or shoal lines shown on the red line print on celluloid of the original reproduced planimetric maps.

32 DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

The Compilation Office did not add or delete any details offshore from the high-water lines shown on the red line print on celluloid of the original reproduced planimetric maps.

33 WHARVES AND SHORELINE STRUCTURES:

All piers, docks, and other shoreline structures visible on the nine lens photographs and also indicated by field inspection data have been detailed.

34 LANDMARKS AND AIDS TO NAVIGATION:

The Compilation Office has not been furnished any data as to additional landmarks and aids to navigation. It is assumed that Form No. 524 and Form No. 567 have been submitted for those shown on the red line print on celluloid of the original reproduced planimetric maps.

35 HYDROGRAPHIC CONTROL:

No data concerning any new hydrographic control has been furnished this Compilation Office by the Field Party.

36 LANDING FIELDS AND AERONAUTICAL AIDS:

No data as to landing fields or aeronautical aids within the limits of the area covered by this Map Manuscript was furnished the Compilation Office.

37 DISCREPANCY OVERLAY:

A Discrepancy Overlay has been prepared to accompany this Map Manuscript. On it are shown notes regarding questions of doubtful interpretation of the photographs by the Compilation Office. Also a few notes concerning offshore details not detailed or indicated by field inspection have been shown.

38 GEOGRAPHIC NAMES:

No new geographic names have been furnished the Compilation Office by the Field Inspection Party. In accordance with instructions to the Field Party, dated May 1, 1943; paragraph 17, the geographic names shown on the red line print on celluloid are to be considered adequate.

However, it is noted that in the Field Report for this 7½ minute quadrangle, it is stated under paragraph No. 18, that Geographic Names for this quadrangle are covered in a special geographic name report for Project CS-303-A by A. J. Wraight. L.H.

39 HORIZONTAL ACCURACY:

In view of statements in the instructions for Project CS-303-A, dated May 1, 1943; this Map Manuscript is believed to meet the requirements of horizontal accuracy for War Mapping.

40 RECOMMENDATIONS FOR FUTURE SURVEYS:

The planimetric detail and contours shown on this Map Manuscript are believed to be complete, but are subject to additions or deletions at the time of the Field Edit.

41 JUNCTIONS:

A complete junction was made to the west with Map Manuscript for Survey No. T-8513. Surveys to the north and east of this Map Manuscript were not available to this Office for junction purposes. To the south is the Atlantic Ocean.

42 REMARKS:

An adequate description of the area of this Map Manuscript has been made in the Field Inspection Report.

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Comparisons were made with the U. S. Geological Survey 15 minute quadrangle, Casco Bay, Maine, and Freeport, Maine, scale 1:62,500.

Due to scale differences, only an approximate comparison could be accomplished, but is noted that the agreement appears very good, both as to planimetry and contours. Little Bang Island is named Cushing Island and Cliff Island is named Crotch Island on the Casco Bay 15 minute quadrangle. LA

45 COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Nautical Chart No. 201, scale 1:25,000, issue of March 21, 1942 and was found to be in good agreement with the following exceptions: *Cliff Island is named Crotch Island on the Chart; Mars Island Ledge, N. W. Ledge, Johnson Rock, Webster Rock, Johns Rock, and several smaller rocks as shown on the Chart were not indicated on the field inspection photographs and are not visible on the office photographs.


* "Cliff Island" on 315, June, 1947
"Crotch Island" on 1204, July 1947

45 COMPARISON WITH NAUTICAL CHARTS: (cont'd)

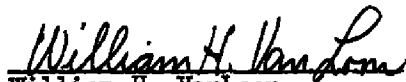
These ledges and rocks have been shown in their approximate positions on the discrepancy overlay and it is requested that they be investigated during the Field Edit. Two cable areas shown on Chart No. 201 have been added to the Map Manuscript. Contours on the Map Manuscript and on the Chart are in fairly good agreement. However, the Map Manuscript shows a more complete contour information than that shown on the Chart.

Comparison was also made with Nautical Chart No. 315, issue of September 15, 1943, scale 1:40,000, and the same discrepancies as listed above for Chart No. 201 apply also to Chart No. 315. An additional cable area has been added in the extreme northeast corner of the Map Manuscript as shown on Chart No. 315.


Respectfully submitted,
November 23, 1943


Ruth E. Rudolph
Jr. Engineering Draftsman

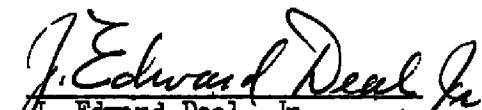
Map Manuscript, Discrepan-
cy Overlay and Descriptive
Report Reviewed by:


William H. VanLoon
Pr. Photogrammetric Aid


Compilation of Map Manuscript
Supervised by:


Joseph Steinberg
Asst. Photogrammetric Eng.

and


J. Edward Deal, Jr.
Asst. Photogrammetric Eng.

Approved & Forwarded:
November 25, 1943


Fred. L. Peacock
Commander, C & G Survey
Officer-in-Charge
Baltimore Field Office

FIELD EDIT REPORT
to accompany
quadrangle T-8514
Project 303-A

46. The field edit of this quadrangle was accomplished by a visual inspection of detail as it was plotted on the compilation and by the use of a planotable for correcting contours and elevations. Additions and corrections have been noted on the cloth backed copy of the compilation according to the following:

Contour corrections in blue ink.
Additions in black ink.
Elevations in green ink.
Notes on the discrepancy overlay have been corrected in green ink.

47. The compilation is believed to be complete and accurate with the noted field edit corrections.

The contours and elevations in the vicinity of South Harpswell were found to be 10 feet in error. It was not possible to determine how this error occurred as there was no level notes available for this area. The contours and elevations are correct as shown on the copy of the compilation submitted.

48. Accuracy tests, both vertical and horizontal, are the subjects of special reports on Project 303-A.
Filed in review unit. No horiz. accuracy test on this quad.
49. One aid to navigation, Junk of Pork Light, was located and submitted on form 567.
49. Junctions with quadrangles T-8513, T-850F and T-8513 were checked and corrected where necessary.

Submitted by

L.G. Chambers per J.H.G.

L.G. Chambers
Prin. Photo. Aid

Approved and forwarded

E.L. Gallen

E.L. Gallen
Chief of Party

Quad T-8514

TO BE CHARTED

STRIKE OUT ONE

Sanford, He-

Jan. 15, 1944 19

I recommend that the following objects which have ~~(been)~~ been inspected from seaward to determine their value as landmarks, be charted on ~~(the)~~ the charts indicated.

The positions given have been checked after listing.

F. J. Gallen

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8514

SOUTH HARPSWELL, ME. QUADRANGLE

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be necessary in this office are discussed on the next page.

Horizontal and Vertical Accuracy

The nearest horizontal accuracy test falls on T-8508 and T-8509, north of T-8514.

One vertical accuracy test, (Great Chebeag Is.), in which no elevation differed more than one-half contour interval. The map meets the required vertical accuracy standard.

Previous Surveys

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area.

T- 755	1/10000	1855	T- 847	1/10000	1860-1
756	"	1856	919a	"	1864
757	"	1857	1056	1/20000	1867

U.S.G.S.	Casco Bay	1/62500	1916, rep. 1941
U.S.E.	Casco Bay	1/62500	1941

Comparison with Nautical Charts Nos. 1204 1/80000 Jan 1944

315 1/40000

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts: T-8514 differs from the charts in several places with respect to shoreline and to rock positions.

"Drunkers Ledges" on Chart 315 is "Drunkers ledge" on Chart 1204.

"Drunkers Ledges" is correct.

The triangulation station name is "Drunkers ledge Beacon", G.P. p.45

April 1948, LTS

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

Contours redrawn in the northeastern portion of the map manuscript, to conform to field edit information:

Whaleback Island	Haskell Island
Harpwell Island Neck	Great Mark Island
Upper Flag Island	Little Mark Island
Eagle Island	

Halfway Rock revised.

This review report was compiled from notes made on a check list by the reviewer. LTS April, 1948

Reviewed 16 Feb. 1948

By Z. Schwaner

under direction of D. H. Benson

Inspected by B. G. Jones

B. G. Jones 8/48

Examined and approved:

[Signature]
Chief, Surveys Branch

K.T. Adams
Chief, Div. of Charts *Hydrography*

and *[Signature]*
Chief, Topography Section
Nautical Chart Branch

C. K. Green
Chief, Div. of Coastal
Surveys

RECORDS

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

Registered and Filed in the Vault.

Cloth-mounted copy of the published quadrangle.

Black and white cloth-mounted copy of the published quadrangle at 1:20,000 scale. This copy is filed to preserve original survey detail shown on the manuscript at 1:20,000 scale which may not have been shown on the published sheet. For woodland, refer to the published quadrangle for the finally-adopted outlines.

Descriptive Report.

Filed in the Photogrammetric Division.

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Review Section.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and tabulations of results of horizontal and vertical accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in red changes to be made when next printed.)

Check lists of work performed on each sheet in the Washington Office during review, drafting, edit, and reproduction.

Copies of specifications and all instructions to field parties and field offices.

Filed in Reproduction Branch.

Glass negatives of the color separation drawings.

Filed in the Library.

Special report on office work by B. G. Jones, 1944.

Season's report on field work by Commander F. L. Gallen, 1944.

Season's report on field work by Commander R. L. Schoppe, 1944.

Delivered to the Army Map Service in accordance with the contract.

Film negatives and film positives of the color separation drawings.

All color separation drawings.

A correction sheet consisting of a copy of the first edition of the quadrangle with notes in red indicating changes desirable at the next printing.

Remarks

Decisions

1		
2		
3		
4		
5		Road Maps
6		
7		436700 USGB
8		"
9		"
10		"
11		"
12	Pending with USGB	"
13		"
14		"
15		"
16	Pending with USGB with respect to Crotch Island	436701
17	" " "	"
18	" " "	"
19		"
20		"
21		"
22		"
23		"
24		"
25		437700
26		"
27		437699

GEOGRAPHIC NAMES

Survey No-T-8514

SOUTH HARPSWELL quadrangle

1	Name on Survey	A	B	C	D	E	F	G	H	K	
	Cumberland County										1
	Town of Portland										2
	" Cumberland										3
	" Harpswell										4
	State Highway No. 129 (leading to South Harpswell)										5
											6
	Casco Bay										7
	Halfway Rock										8
	Halfway Rock Light										9
	Drunkers Ledges (one is sunken)										10
	West Brown Cow										11
	Broken Cove										12
	Jewell Island										13
	Punchbowl										14
	Indian Rock (near west side Jewell Island)										15
	Cliff Island										16
	Cliff Island (village)										17
	Cliff Island Landing										18
	Luckse Sound										19
	Inner Green Island										20
	Green Island Reef										21
	Green Island Passage										22
	Outer Green Island										23
	Junk of Pork										24
	Jaquish Island										25
	Jaquish Gut										26
	Bailey Island										27

Remarks.

Decisions

1		437700
2		"
3		"
4		"
5	Pending with USGB for spelling	"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"
M 234		

GEOGRAPHIC NAMES

Survey No. T-8514

2	Name on Survey	<div> <div>On Chart No.</div> <div>On previous survey No.</div> <div>On U. S. quadrangle Maps</div> <div>From local information</div> <div>On local Maps</div> <div>P. O. Guide or Map</div> <div>Rand McNally Atlas</div> <div>U. S. Light List</div> </div>									
		A	B	C	D	E	F	G	H	K	
	Mackerel Cove	✓									1
	Abner Point	✓									2
	Turnip Island	✓									3
	Turnip Island Ledge	✓									4
	Mericoneag Sound	✓									5
	Little Mark Island	✓									6
	Whale Rock	✓									7
	Haddock Rock	✓									8
	Eagle Island	✓									9
	Eagle Island Ledge	✓									10
	Haskell Island	✓									11
	Great Mark Island	✓									12
	Great Harbor Cove	✓									13
	Upper Flag Island	✓									14
	Potts Point	✓									15
	Ram Island	✓									16
	South Harpswell	✓									17
	Harpswell Neck	✓									18
	Little Birch Island	✓									19
	Birch Island Ledge	✓									20
	Horse Island	✓									21
	Basin Point	✓									22
	Thrumcap	✓									23
	Torry Rock	✓									24
	Bar Island	✓									25
	Potts Harbor	✓									26
	Ash Point Cove	✓									27

Remarks.

Decisions

1		437700
2		"
3		"
4		"
5		"
6		"
7		"
8		"
9	Pending with USGB with respect to Cushing I	"
10		"
11		"
12		"
13		"
14		"
15	Pending with USGB, Chebeag versus Chebeague	437701
16	" " " "	"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		
M 234		

GEOGRAPHIC NAMES

Survey No. T-8514

3	Name on Survey	On Chart No.	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	
		A	B	C	D	E	F	G	H	K
	Ash Point	✓								1
	Basin Cove	✓								2
	Barnes Island	✓								3
	Whaleboat Island	✓								4
	Broad Sound	✓								5
	Goose Nest	✓								6
	Goose Nest Ledge	✓								7
	Stockman Island	✓								8
	Little Bangs Island	✓								9
	Stave Island	✓								10
	Stave Island Ledge	✓								11
	Ministerial Island	✓								12
	Bates Island	✓								13
	Mink Rocks	✓								14
	Great Chebeag Island	✓								15
	Chebeag Island	✓	(village)							16
	Central Landing	✓								17
	Crow Island	✓								18
	Waldo Point	✓								19
	Johnson Cove	✓								20
	Jenks Landing	✓								21
	Coleman Cove	✓								22
	Western Landing	✓								23
	Sand Island	✓								24
	Rogues Island	✓								25
	Hope Island	✓								26
										27

Names underlined in red approved
by L. Heck on 3/14/44