

8513

D.C.No. 1205 (Insert)

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photographic Topo.

Field No. CS-303-A Office No. T-8513

LOCALITY

State Maine

General locality Casco Bay

Locality Fort Williams to Basket Island

1943-44

CHIEF OF PARTY

F.I. Peacock

LIBRARY & ARCHIVES

DATE June 2, 1949

8-1870-1 (11)

8513

DATA RECORD

T-8513

Quadrangle (II):

Portland East $7\frac{1}{2}$ minute

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 *Division of*
 Copy filed in *Descriptive*
~~Report No. 2~~ ~~(VI)~~
Photogrammetry Office Files.

Instructions dated (II III):

May 1, 1943

Completed survey received in office, 11 Dec. 1943

Reported to Nautical Chart Section:

Reviewed: 8 May 1944 Applied to chart No.

3201 Date: Jan 24, 1945
 325 "
 201 "
 315 "

Redrafting Completed: 24 Dec. 1943

Registered: 17 Dec. 1944

Published: May 1945

Compilation Scale: 1:20,000

Published Scale: 1:20,000

Scale Factor (III): none

Geographic Datum (III): N. A. 1927

Datum Plane (III): Mean Sea Level

Reference Station (III): COW (U.S.E.) 1909, r.1911, 1933

Lat.: $43^{\circ} 41' 27.760''$ 856.7m Long.: $70^{\circ} 11' 13.916''$ 311.6m ~~Adjusted~~
~~Redrafted~~

State Plane Coordinates (VI):

X = 494,569.15

Y = 312,616.83

Military Grid Zone (VI) "A"

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
13670 & 71	4/18/43	11:40a.m.	1:20,000	8.1' above M. L. W.
13680 to 90 Incl.	4/18/43	12:01p.m.	1:20,000	7.6' above M. L. W.

Tide from (III): Tables of predicted tides, Reference Station Portland, Maine, with corrections for Peak Island, Maine.

Mean Range: 9.1'

Spring Range: 10.5'

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

Field Inspection/contours by: Marvin C. Jenkins, W.W.Doerings- date: Spring, 1943
feld, Jr., Morris W. Burr

Field Edit by: L. G. Chambers date: Jan., 1944

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

Same as date of photographs

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

" " " checked by: Washington Office date:

Control plotted by: See Descriptive Reports for Surveys date:
T-5957, T-5958 and T-5959

Control checked by: " date:

Radial Plot by: " date:

Detailed by: Edward H. Snyder date: 11/5/43 to 12/7/43

Reviewed in compilation office by: William H. VanLoon date: 12/1/43 to 12/8/43

Elevations on ~~Field Edit Sheet~~ ^{Map Manuscript} checked by: L. G. Chambers date: Jan., 1944

STATISTICS (III)

Land Area (Sq. Statute Miles): 18

Shoreline (More than 200 meters to opposite shore): 50 Statute Miles

Shoreline (Less than 200 meters to opposite shore): .5 Statute Miles

Number of Recoverable Topographic Stations established: 4 bench marks
transferred from field inspection photographs.

Number of Temporary Hydrographic Stations located by radial plot: none

Leveling (to control contours) - miles: ~~unknown~~ *Approx 43 Mi.*

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

7-8513

This quadrangle, together with similar adjoining maps produced under Project C.S. , 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 and were published in 1937 on the scale of 1:20,000. 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.

7-5957
5958
5959

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-8513
Project CS-303-A
F. L. Gallen, Chief of Party

1. DESCRIPTION OF AREA:

The area covered by Quadrangle T-8513 lies entirely within Cumberland County, Maine, and includes Falmouth on the northwest, Portland and South Portland on the southwest, Sturdivant, Basket, Clapboard, The Brothers, Mackworth, Cow, Great Diamond, Little Diamond, Little Chebeague, Long, Peak, House, Cushing, Ram, Overset, Vail, and Obed Rock Islands, southern part of Cousin's Island, and southwestern part of Great Chebeague Island. The land forms in this quadrangle have a structural trend (strike) of about 35° east of north. This trend is perpendicular to the compression applied to the area during the various Appalachian diastrophisms and is not attributed to glacial action as it is supposed by many inhabitants of the area. Outcrops of schistose rocks throughout the area bear out the fact. Drainage of the islands is chiefly intermittent and has no characteristic pattern. Drainage of the mainland is mixed dendritic and trellis; the latter is due to the structure of the area as stated above. This quadrangle covers the main part of Casco Bay and its shoreline. The area within the quadrangle is highly populated and there is little or no farming. The vegetation of the area is chiefly small growths of evergreen and deciduous trees with very little lowland.

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, cemeteries have been labeled and physical features designated with proper symbols. Only those buildings which are circled on the photographs are to be shown on the map drawing. All others are to be deleted. Trails are shown with a dashed red line, thus - - - -. Military installations that are not designated as such should be deleted. This is the request of local military authorities. All military boundaries which are shown on the photographs are correct and need not be rechecked. Many military barracks that are placed on the photographs are supposed to be temporary and will remain only for the duration of the present war. Since the duration is indefinite these buildings might as well be placed on the final map-drawing. Classification of bridges and culverts which have been designated on the photos or any other small items erroneously omitted will be noted by the field edit party.

3. INTERPRETATION OF THE PHOTOGRAPHS:

The photographs used for mapping this quadrangle are average in obtaining stereopsis and picking out detail. Vegetation shows up in varying tones. Deciduous trees and brush show up grayish incolor while pine growths are distinctly black.

4. HORIZONTAL CONTROL:

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

5. VERTICAL CONTROL:

Bench marks were recovered and pricked on photographs and submitted to the Baltimore Office. Supplemental level lines were run over the main roads in this quadrangle to provide sufficient control for the planetable party. These lines were run by a separate four-man party and were assumed to be correct. Lines with a closure of less than .35 of a foot were not adjusted. Lines with a closure of more than .35 of a foot and less than one foot were adjusted. Lines with a closure of more than one foot were re-run. Level line elevations are shown in black ink, while planetable elevations are shown in brown.

6. CONTOURS AND DRAINAGE:

Very little sketching of the contours was done in heavily 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. 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 or by pacing. *A few corrections were made. These are shown in green.*

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:

Classification of bridges and culverts will be done on the field edit sheet. There are no bridges on the islands, but all culverts have been designated on the photos, as have the bridges in Falmouth, Portland, and South Portland.

16. BUILDINGS AND STRUCTURES:

All buildings to be shown on the manuscript are circled in red. Buildings not labeled are to be classed as dwellings. Barns, churches, stores, and other buildings are labeled. Any buildings not circled or labeled are to be deleted.

17. BOUNDARY MONUMENTS AND LINES:

This quad lies wholly within the limits of Cumberland County, Maine, and is sub-divided into the towns of Falmouth, Yarmouth, Cumberland, Portland, South Portland, and Cape Elizabeth. 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, which were procured at the various towns over the survey, and by actually taking these maps and locating boundary monuments in the field from the town maps. These boundary monuments are circled in black. All boundary lines shown on this compilation are correct. The boundaries of Fort Williams and Fort Preble are shown on the compilation for the quad. Boundaries for Fort McKinley, Fort Lyon, and Fort Levett are shown on photographs for the area. Fort Gorges and Fort Scammel are merely large buildings and are now abandoned. Maps of Fort Williams, Fort Preble, Fort Levett, Fort Lyon, and Fort McKinley are submitted with this quadrangle. It should be noted that certain buildings are to be deleted in the above mentioned forts. These buildings are noted on the reservation maps and are in agreement with information from the commanding officer at Fort Williams.

The Cumberland-Falmouth boundary was changed by field edit - this correction is shown in green

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-8507 to the north, T-8514 to the east, T-8512 to the west, and T-8519 to the south have been made and are in agreement.

20. PHOTOGRAPHS USED:

The photographs used in surveying this area were Nos. 13670, 13671, 13680, 13681, 13682, 13683, 13687, 13688, 13689, and 13690.

Approved and forwarded by:

Submitted by:

F. L. Gallen

F. L. Gallen,
Chief of Party

W. W. Doeringsfeld, Jr.
pt. 229

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	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 THE WORLD

CLASS	LABEL	STRUCTURE	LOADING
1	Dependable hard-surface heavy-duty road.	Concrete, asphaltic concrete bituminous macadam R-15 type structures.	Will bear heaviest loads with little maintenance.
2	Secondary, hard-surface all-weather road.	Surface-treated, oil or gravel, water-bound macadam, structures generally lighter than R-15 but sturdy.	Will bear fairly heavy military loads in all weather if maintained.
3	Coarse-surface graded, dry-weather road.	Gravel or stone surface, stable material, selected sand-clay, etc., graded and graded.	Will bear light military loads in good weather.
4	Unimproved road	Gravel and graded earth, with very light structure.	Generally unsuitable for military loads.
4A	Truck road	Roads roads, farm roads, etc., over which a standard passenger 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 indicated.

Private roads are designated by the letter P after the road 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.	
6	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)
 Ct Ho - Court House (give name)
 P.O. - Post Office (give name)
 Sch - School (give name)
 Hos - Hospital (give name)
 RR Sta - Railroad Station
 Sto - Country store or gas station
 P 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 - Low 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

MHL - Mean high water; fast land
 LTL - Low water line
 LL - Marsh shore line
 M - Marsh
 MG - Marsh grass in water
 Dk - Dock
 Pier - Pier
 Se H - Sea Wall
 Bkhd - Bulkhead
 Jet - Jetty
 Dol - Dolphnia
 Pile - Pile
 S - Sand
 Mud - Mud

Rk - Rock or Rocky
 Sty - Stony
 Conc - Concrete
 Wo - Wood
 Blf - Bluff
 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
 Lev - Levee
 Dam - Dam
 P - Pond
 IP - Intermittent pond

VEGETATION

Gr - Grass
 Sw - Swamp
 Cy Sw - Cypress Swamp

26 CONTROL:

Recovery notes of the horizontal control stations shown on the Map Manuscript were not furnished the Compilation Office. It is not known if any of these stations are lost or destroyed since the original planimetric maps were made.

27 RADIAL PLOT:

From statements in a letter of instructions to War Mapping Field Party No. 1 from the Director, dated May 1, 1943, paragraph 6, the Compilation Office assumes that the original planimetric maps were compiled to the usual standard of accuracy. It was therefore unnecessary to run a radial plot to control the photographs to be used for the revision of this Map Manuscript.

28 DETAILING:

The Compilation Office was furnished a red line print on celluloid, scale 1:20,000, of the reproduction of the portions of the 1937 planimetric surveys Nos. T-5957, T-5958, and T-5959, covering the area of the Map Manuscript for Survey No. T-8513, for revision of planimetry and the addition of 20 ft. contours as established by the Field Inspection Party.

The field inspection furnished the Compilation Office was satisfactory.

Detailing was accomplished by orienting the photographs under the red line print on celluloid by use of common well-defined points of detail. This method was found satisfactory because of the near coincidence of scale of the photographs and the Map Manuscript. It was advantageous to the Compilation Office to transfer the drainage data and the elevations to the Map Manuscript directly from the field inspection photographs.

Roads, buildings, and drainage have been added or deleted on the red line print on celluloid, according to the field inspection data furnished the Compilation Office. A few minor changes were made in the shore line and some new shore line structures have been added after careful office examination of the photographs. *See report on comparison with planimetric attached to this report.*

Field edited plans of Forts McKinley, Lyon, Levett, Preble and Williams, all military reservations in current use, were furnished the Compilation Office by the Field Inspection Party. All buildings and roads, shown on this Map Manuscript, within the military reservations, were detailed according to the data contained on the field edited layout plans.

28 DETAILING: (cont'd)

The revision of the red line print on celluloid has been confined to the area within the limits of the 7½ minute quadrangle for this Map Manuscript.

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>Date</u>	<u>Scale</u>
T-735	1854-58	1:10,000
T-755	1855-59	1:10,000
T-756	1856	1:10,000
T-919a	1864	1:10,000
T-919b	1873	1:10,000
T-1111	1867	1:5,000
T-1114a	1868-69	1:1,200
T-1114b	1868-69	1:1,200
T-11141a	1869	1:1,200
T-11141b	1869	1:1,200
T-11142a	1869	1:1,200
T-11142b	1869	1:1,200
T-11143a	1869	1:1,200
T-11143b	1869	1:1,200
T-11144a	1869	1:1,200
T-11144b	1869	1:2,400

*Compared during review.
T-8513 appears to be
previous surveys.*

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

30 MEAN HIGH-WATER LINE:

The stage of tide of all the nine lens photographs furnished the Compilation Office was computed and found to be near mean high-water.

The mean high-water line, as delineated from the photographs, was in good agreement with the high-water line as shown on the red line print on celluloid of the reproduced planimetric maps.

31 LOW WATER AND SHOAL LINES:

As all the 1:20,000 scale photographs were near mean high-water, no additional low-water or shoal lines were visible and none, other than those shown on the reproduction of the original planimetric maps, could be detailed.

Low water line was taken partially from nautical chart 1325 and partially from the planimetric 5959 - It is in good agreement with Hydrographic survey 6728. (This is shown by a fine green line)

32 DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

No additional details offshore from the high-water line other than those shown on the red line print on celluloid of the reproduced original planimetric maps were visible on the office photographs nor indicated by the Field Inspection Party.

33 WHARVES AND SHORE LINE STRUCTURES:

Appearing on the office photographs and not shown on the red line print on celluloid of the reproduced original planimetric maps are the following wharves and shore line structures, which have been detailed on the Map Manuscript. Three wharves, a rock jetty, and a seaplane ramp on the northwest side of Long Island, a new wharf, within Fort McKinley, on the northwest side of Great Diamond Island; a fill, bulkhead, and wharves on the northernmost point of South Portland; and a wharf jutting from the west side of Peak Island.

34 LANDMARKS AND AIDS TO NAVIGATION:

No data concerning new landmarks and aids to navigation have been furnished the Compilation Office by the Field Inspection Party. See Descriptive Reports for Planimetric Air Photographic Surveys Nos. T-5957, T-5958, and T-5959 for those landmarks and aids to navigation shown on the red line print on celluloid of these reproduced planimetric maps.

35 HYDROGRAPHIC CONTROL:

The same information under paragraph 34 above is applicable to Hydrographic Control.

36 LANDING FIELDS AND AERONAUTICAL AIDS:

No data concerning landing fields and aeronautical aids has been furnished the Compilation Office by the Field Inspection Party and none are visible on any of the 1:20,000 scale nine lens photographs covering the area of this Map Manuscript.

37 DISCREPANCY OVERLAY:

A discrepancy overlay has been prepared to accompany this Map Manuscript. On it have been shown the names or numbers of bench marks for the use of the Baltimore Field Office. Such notes as are deemed helpful to the Field Edit Party are also shown. Due to the completeness of the field inspection furnished by the Field Inspection Party, only a few notes were necessary.

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 Inspection Party, dated May 1, 1943, paragraph No. 17, the geographic names shown on the red line print on celluloid of the reproduced original planimetric maps are adequate. However, the field report, paragraph No. 18, states that the geographic names are the subject of a special report which has not been furnished the Compilation Office. All geographic names shown on the reproduced red line print on celluloid have been retained.

39 HORIZONTAL ACCURACY:

It is believed that the horizontal accuracy of the compilation of the original planimetric maps, reduced from a scale of 1:10,000 to a scale of 1:20,000, and reproduced on the red line print on celluloid for this Map Manuscript, will meet the requirements for War Mapping.

40 RECOMMENDATION FOR FUTURE SURVEYS:

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

41 JUNCTIONS:

Detailing of map manuscripts for surveys Nos. T-8507 and T-8512 to the north and west respectively of this Map Manuscript have not been started at the time of the completion of the Map Manuscript for Survey No. T-8513. However, junction details have been transferred to the above map manuscripts and final junctions will be made at the time of their completion.

A complete satisfactory junction on the east with map manuscript for survey No. T-8514 has been made.

A complete satisfactory junction on the south with map manuscript for survey No. T-8519 has been made.

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:

See Descriptive Report for planimetric air photographic surveys Nos. T-5957, T-5958, and T-5959 for comparison of planimetry with the U. S. Geological Survey Casco Bay, Maine, 15 minute quadrangle, scale 1:62,500, edition of 1916, reprinted December 16, 1941.

From a visual examination the contours appear to be in good agreement with the above existing topographic quadrangle..

45 COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with the U. S. Coast & Geodetic Survey Chart No. 325, scale 1:20,000, issued April 1943, and reissued June 19, 1943.

Shore line and interior details seem to be in good agreement including the shore line structures, described in paragraph 33 of this report. However, a new bridge, connecting Mackworth Point and Martin Point, appearing on the office photographs and detailed on the Map Manuscript, is not shown on Chart No. 325.

Two other U. S. Coast & Geodetic Survey Charts No. 315, scale 1:40,000, issued May 1943 and reissued August 9, 1943; and No. 1204, scale 1:80,000, issued March 1942, and reissued April 24, 1942, were compared but due to differences in scale no accurate comparison could be made.

* Cable and pipeline areas shown on these charts have been reproduced on the Map Manuscript. - *a cable are between PEAK 15. and Long Is has been changed by field Edit This is shown in green*

The contours shown on the Map Manuscript are more complete than those shown on Charts Nos. 315 and 325.

At several places, the contours on Charts Nos. 315 and 325 are in complete disagreement with the contours shown on the Map Manuscript. *See Review*

Chart No. 1204 does not show any contours.

* *Field Edit data does not indicate that any of the cable areas were verified with the exception of the one noted above. All have been reproduced from charts, as stated. None are shown on the published map.*

*K. H. M.
5/24/49*

Respectfully submitted:
December 7, 1943

Edward H. Snyder
Edward H. Snyder
Sr. Photogrammetric Aid

Map Manuscript, Discrepancy
Overlay and Descriptive Re-
port Reviewed by:

William H. Van Loon
William H. VanLoon
Pr. Photogrammetric Aid

Compilation of Map Manuscript
Supervised by:

Joseph Steinberg
Joseph Steinberg
Asst. Photogrammetric Eng.

and

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

Approved & Forwarded:

DEC 11 1943

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

FIELD EDIT REPORT
to accompany
quadangle T-8513
Project 303-A

46. The field edit of this quadrangle was accomplished by a visual inspection of topographic features as plotted on the map manuscript. A plane table was used to locate aids to navigation and correct contours. Additions have been plotted on the cloth backed print of the manuscript according to color scheme:

Additions *****Black Ink
Deletions *****Green
Drainage *****Blue
Boundaries*****Purple

Bridges have been classified according to instructions. Omissions by the field inspection party have been corrected and classified.

47. The compilation is believed to be complete and accurate as corrected by the field edit.
48. Accuracy tests, both vertical and horizontal, are the subjects of special reports on Project 303-A. *There is no horizontal accuracy test for 8513 NEAREST TESTS WERE FOR SHEETS 8506 8507 8512 8518*
11. Seven lights and three beacons have been located and submitted on the attached Form 567.2
See chart letter 53 1944

Submitted by

L. G. Chambers jun. & c.

L.G. Chambers
Prin. Photo. Aid

Approved and forwarded

F. L. Gallen

F.L. Gallen
Chief of Party

Remarks

Decisions

1		USGB
2		
3		USGB
4		Railway Guide
5		
6		Road Maps
7		"
8		
9		436701
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		" USGB
22		436702
23		436701
24		"
25		"
26		437701
27		436701

GEOGRAPHIC NAMES

Survey No. T-8513

PORTLAND EAST quadrangle

1 Name on Survey

	A	B	C	D	E	F	G	H	K
✓ Maine	✓								1
✓ Cumberland County	✓								2
✓ Jasco Bay	✓								3
✓ (Canadian National) Railways	✓								4
✓ Cumberland Towns of Yarmouth, Falmouth, Portland, South Portland, Cape Elizabeth	✓								5
✓ U.S. No. 1	✓								6
✓ Maine No. 9; 77 (latter into South Portland from south)									7
									8
✓ Outer Green Island	✓								9
✓ Ram Island	✓								10
✓ Ram Island Ledge	✓								11
✓ Ram Island Ledge Light	✓								12
✓ Fort Levett	✓								13
✓ White Head	✓								14
✓ Whitehead Passage	✓								15
✓ Trotts Rock	✓								16
✓ Peak Island	✓								17
✓ Peak Island (village)	✓								18
✓ Trefethen	✓								19
✓ Evergreen Landing	✓								20
✓ Great Diamond Island	✓								21
✓ Great Diamond Island Landing	✓								22
✓ Diamond Cove	✓								23
✓ Fort McKinley	✓								24
✓ Cow Island	✓								25
✓ Cow Island Ledge	✓								26
✓ Fort Lyon	✓								27

Remarks

Decisions

1		436701
2		"
3		"
4		"
5		" USGB
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20	Pending with USGB: use this form	437701
21		"
22		"
23	Pending with USGB: use this form	"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8513

GEOGRAPHIC NAMES											
Survey No. T-8513											
		<div>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</div>									
2	Name on Survey	A	B	C	D	E	F	G	H	K	
✓	Crow Island	✓		(south of Cow Island)							1
✓	Hussey Sound	✓									2
✓	Pumpkin Island NDB	✓									3
✓	Overset Island	✓									4
✓	Vaill Island	✓									5
✓	Long Island	✓									6
✓	Jerry Point	✓									7
✓	Wreck Cove	✓									8
✓	College Island	✓									9
✓	Long Island			(village)							10
✓	Ponce Landing	✓									11
✓	Doughty Landing	✓									12
✓	Old Cove			(omit)							13
✓	Mariner	✓		(village)							14
✓	Harbor Grace	✓									15
✓	Shark Cove	✓									16
✓	Obeds Rock	✓									17
✓	Luckse Sound	✓									18
✓	Stepping Stones	✓									19
✓	Great Chebeag Island	✓									20
✓	Crow Island	✓		(west of Deer Pt.)							21
✓	Cleaves Landing										22
✓	Little Chebeag Island	✓									23
✓	Deer Point	✓									24
✓	Bennett Cove	✓									25
✓	Chandler Cove	✓									26
✓	Ricker Head	✓									27

M 234

	Remarks	Decisions
1		437701
2		"
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		437702
14		"
15		"
16		"
17		"
18		"
19		"
20	Pending with USGB	"
21		"
22		"
23		"
24		436702
25		" USGB
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8513

GEOGRAPHIC NAMES																					
Survey No. T-8613																					
Name on Survey		A	B	C	D	E	F	G	H	K											
✓	Indian Point	✓																		1	
	Sunset Landing	✓			XXXXXXXXXX															2	
✓	Division Point	✓																		3	
✓	Cousins Island	✓																		4	
✓	Spruce Point	✓																		5	
✓	Birch Point	✓																		6	
✓	Upper Basket Ledge	✓																		7	
✓	Basket Island	✓																		8	
✓	Lower Basket Ledge	✓																		9	
✓	Sturdivant Island	✓																		10	
✓	Sturdivant Island Ledges	✓																		11	
✓	Clapboard Island	✓																		12	
✓	Falmouth Foreside	✓																		13	
	Underwood Spring	✓																		14	
✓	Falmouth	✓																		15	
✓	York Landing	✓																		16	
✓	York Ledge	✓																		17	
✓	Mussel Cove	✓																		18	
✓	Bartlett Point	✓																		19	
✓	Prince Point	✓																		20	
✓	Prince Point Ledge	✓																		21	
✓	Waites Landing	✓																		22	
✓	The Brothers	✓																		23	
✓	Presumpscot River	✓																		24	
✓	Lackworth Point	✓																		25	
✓	Martin Point	✓																		26	
✓	U.S. Marine Hospital	✓																		27	

T-8513

4
Decisions

Remarks

1	Remarks	436702 USGB
2		" "
3		" "
4		" "
5		" "
6		" "
7		" "
8		" "
9		" "
10		" "
11		" USGB
12		" "
13		436701
14		436702
15		436701
16		436702
17		" "
18		" "
19		" "
20		" USGB
21		" "
22		" "
23		" "
24		" "
25		" "
26		" "
27		" "

GEOGRAPHIC NAMES

Survey No. T-8513

GEOGRAPHIC NAMES		Survey No. T-8513									
Name on Survey		On Chart	On previous survey	On U. S. quadrangle	From local	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
		No.	No.	Maps	information						
A	B	C	D	E	F	G	H	K			
✓ Mackworth Island	✓	✓								1	
✓ Halfway Rock	✓	✓								2	
✓ Pomroy Rock	✓	✓								3	
✓ Fish Point	✓	✓								4	
✓ Portland	✓	✓								5	
✓ Fore River	✓	✓								6	
✓ Portland Harbor	✓	✓								7	
✓ Portland Breakwater Light	✓	✓								8	
✓ Diamond Island Ledge	✓	✓								9	
✓ Fort Gorges	✓	✓								10	
✓ Little Diamond Island	✓	✓								11	
✓ Little Diamond Island Landing	✓	✓								12	
✓ City Point	✓	✓								13	
✓ Diamond Island Roads	✓	✓								14	
✓ Forrest City Landing	✓	(not Forest)								15	
✓ Catfish Rock	✓	✓								16	
✓ House Island	✓	✓								17	
✓ Quarantine Station	✓	✓								18	
✓ Fort Scammel	✓	✓								19	
✓ Cushing Island	✓	✓								20	
✓ Cushing Island	✓	(village)								21	
✓ Cushing Island Landing	✓	✓								22	
✓ Cushing Point	✓	(topography so modified by new docks etc that this name has been deleted from chart 325)								23	
✓ Spring Point	✓	✓								24	
✓ Fort Preble	✓	✓								25	
✓ Simonton Cove	✓	✓								26	
✓ Miller Beach	✓	✓								27	

M 234

T-8513

5

Remarks

Decisions

1		436702
2		"
3		"
4		"
5		"
6		"
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GEOGRAPHIC NAMES

Survey No. T-8513

5	Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K
	South Portland ✓	✓								1
	Meetinghouse Hill ✓	✓								2
	Mountainview Park ✓	✓								3
	Cape Cottage ✓	✓								4
	Maiden Cove ✓	✓								5
	Ship Cove ✓	✓								6
	Fort Williams ✓	✓		(partly here)						7
										8
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										13
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										15
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										27

Names underlined in red approved
by L. Heck on 5/30/44

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8513

PORTLAND EAST QUADRANGLE MAINE

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

Horizontal accuracy: see page 7 of descriptive report.

Vertical accuracy: Test Traverse No. 1. "Over 90% of the contours are within $\frac{1}{2}$ contour interval of the true elevation and no contour is in error more than one contour interval."

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.

See page 5 of the descriptive report.

	315	1/40000	1943
<u>Comparison with Nautical Charts Nos.</u>	325	1/20000	1943
	1204	1/80000	1942

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:

Contours on parts of 325 are in complete disagreement with those of this quadrangle.

A bridge connecting Mackworth Pt. and Martin Pt. is not on the chart.

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

A few changes in contours and drainage were made. Many buildings were added.

Review Report written from notes made by reviewer. LTS

Reviewed _____ By Anne M. Harton per 75
under direction of D. H. Benson Anne M. Harton 8 May, 1944

Inspected by B. G. Jones

B. G. Jones

Examined and approved:

H. C. Munster
Chief, ~~Survey~~ Branch
Nautical Chart

[Signature]
Chief, Div. of Charts

K. T. Adams
Chief, Topography Section
Division of Photogrammetry

W. M. Scaife
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. Callen, 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.