

8519

original

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8519

| | |
|--|--------------------------|
| Form 504 | |
| 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-8519</u> |
| LOCALITY | |
| State <u>Maine</u> | |
| General locality <u>Casco Bay</u> | |
| Locality <u>Seal Cove - Pond Cove</u> | |
| <u>1943</u> | |
| CHIEF OF PARTY | |
| <u>Fred. L. Peacock</u> | |
| LIBRARY & ARCHIVES | |
| DATE <u>September 8, 1948</u> | |

DATA RECORD

T-8519

Quadrangle (II):

Cape Elizabeth 7 $\frac{1}{2}$ minute

Field Office:

Sanford, Maine

Compilation Office:

Baltimore, Md.

Instructions dated (II III):

May 1, 1943

Project No. (II):

CS-303-A

Chief of Party:

F. L. Gallen

Chief of Party:

Fred. L. Peacock

Copy filed in Descriptive

Report No. T- (VI)

Div. of Photogram. Office Files.

Completed survey received in office: 26 Jan. 1944

Reported to Nautical Chart Section:

Reviewed: 25 April, 1944 Applied to chart No.

Redrafting Completed: 12 May 1944

Registered: 30 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):

~~JOHNS HILL, 1850, 1933, 1942 (1850, 1933, 1941)~~
PORTLAND HEAD LIGHTHOUSE, 1850, n. 1933, 1941Lat.: ~~43° 34' 46.016" (1120.1m)~~ ~~Long.: 70° 12' 51.890" (1164.3m)~~
43° 37' 22.874" (705.9m) 70° 12' 30.142" (675.8m)Adjusted
Unadjusted

State Plane Coordinates (VI): West Zone - Maine

X = 488,956.13

Y = 287,824.04

Military Grid Zone (VI) A

Narvon Defense Grid

PHOTOGRAPHS (III)

| <u>Number</u> | <u>Date</u> | <u>Time</u> | <u>Scale</u> | <u>Stage of Tide</u> |
|---------------|-------------|-------------|--------------|----------------------|
| 13685 | 4-18-43 | | 1:20,000 | Approx. M.H.W. |
| 13686 | " | | " | " |
| 13687 | " | | " | " |
| 13683 | " | | " | " |
| 13684 | " | | " | " |

Tide from (III): Predicted Tables- 1943 (Richmond Island)

Mean Range: 8.9 ft. Spring Range: 10.1 ft.

Camera: (Kind or source)

Field Inspection by: Marvin C. Jenkins date:

Field Edit by: L. G. Chambers date:

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

Projection and Grids ruled by (III) Wash. Off date: —

" " " checked by: " " date: —

Control plotted by: date:

Control checked by: date:

Radial Plot by: date:

Detailed by: John M. Reinoldi date: Nov 25, 1943

Reviewed in compilation office by: Henry P. Eichert date: Nov 25, 1943

Elevations on Field Edit Sheet
checked by: date:

STATISTICS (III)

Land Area (Sq. Statute Miles); 10

Shoreline (More than 200 meters to opposite shore); 13.8 miles

Shoreline (Less than 200 meters to opposite shore); None

Number of Recoverable Topographic Stations established; One
Transferred from red line print on chart paper

Number of Temporary Hydrographic Stations located by radial plot; None

Leveling (to control contours) - miles; 19.5 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

T-8519

This quadrangle, together with similar adjoining maps produced under Project C.S. 33A, 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 and were published in 1941 on the scale of 1:100,000. 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.

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 *red line print of planimetric T-5956*.

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-8519
Project CS-303-A
F. L. Gallen, Chief of Party

1. DESCRIPTION OF AREA:

The area covered by this Quadrangle lies entirely in Cumberland County, Maine. The larger part of the Quadrangle makes up the peninsula known as Cape Elizabeth. A small percentage of the area is farmland; the rest being very rough timberland. This area is drained by numerous small brooks which drain to the ocean. In some cases, the lower portions of these drains have been filled in to allow the building of summer cottages along the ocean front. Therefore, the drains are underground and do not effect the 20' and 40' contours. Notes have been made on the photographs calling attention to these features. The area west of Fort Williams, a military reservation on the ocean front just south of South Portland, is very irregular timberland and swamp. This land is filled with small stagnant streams which drain only when enough rain water backs up into them, causing the streams to overflow. These pools are breeding places for mosquitoes. There are no roads and only a few foot paths in this area. Large rocks form numerous closed contours in this section of the quadrangle. Richmond Island, lying off the coast in the southern portion of the quadrangle, is a round top Island with very few trees and no "year round" inhabitants. There is a house and large barn on the Island, with most of the Island being pastureland. In previous years this pastureland was used for raising horses. However, at present this Island seems only to be used as a grazing land for sheep. A few fishermen stop over during fishing season. There is a stone breakwater extending from the mainland to the Island. It should be noted that this breakwater is built over a shoal area and has been washed out near the center for a distance of about 200 feet at the time of this survey. Local residents of this area state that it was once possible to drive by horse and wagon from the mainland to Richmond Island over this shoal area. In the interior, most of the cultivated land is truck farms, with lettuce being the main crop and vegetables taking up the remainder of the acreage. Very little or no grain is grown in this section. The farmland generally borders the drainage and is on sloping land. The higher ground is too rocky for extensive cultivation.

2. COMPLETENESS OF FIELD INSPECTION:

The field inspection is thought to be complete. Buildings, churches, cemeteries, roads and trees have all been classified. Public buildings are blocked-in in green and numbered. These are buildings in South Portland and Cape Elizabeth. The buildings are identified according to their numbers on a list which is attached to field inspection photo No. 13688. All buildings within the limits of Fort Williams may be shown with the exception of the ones X'ed out in red on the plan layout that was furnished this party by the Commanding Officer of the Fort. This layout is submitted with the photographs for this quadrangle. Only the buildings circled are to be shown on

the map drawing. Those that are only circled and not designated are to be classed as houses or dwellings. Trails are shown with a dashed line, thus -----. Swamp areas are enclosed by a dashed blue line and named swamp. The drainage to be shown on the completed sheet is shown on the field sheet. Highway #9 is the main road on this quad and has been labeled on the photos. It is thought that all necessary information is shown on the field sheet that should be shown on the 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 photos for this quadrangle are typical to corresponding areas of this type. The area south of Fort Williams was not sufficiently covered by the center of any photo to make clear the field inspection. However, it is believed that all details were detected and noted. On the photos the deciduous trees show up a light grayish color and are generally found in the bottoms of drains or swamp areas. The evergreens are a dark color and are found on the higher ground. The tops of the higher hills are generally "bald", with moss-covered rocks jutting out irregularly. It is thought that nothing should be shown on the compilation which is not noted on the photo or does not have a notation for something similar on some other part of the photo or photos for this quadrangle.

4. HORIZONTAL CONTROL:

The horizontal control for this quadrangle was handled in accordance with instructions 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 the quad to provide sufficient control for the planetable party. These levels were run by a separate party consisting of four men. Closed adjusted lines were assumed correct for use by the planetable party.

6. CONTOURS AND DRAINAGE:

Contouring was carried on by a four man planetable party, using standard Coast Survey methods and equipment. The first operation in contouring was to establish a line of magnetic declination on the photo. This was accomplished by orienting the table along a straight road near the center of the photo. The magnetic line was used in orienting the table when orientation could not be accomplished by other means. All contouring was done directly on the photos and cultural features were used to supplement planetable "shots" to locate the contours whenever possible. Hand level lines were run in the thickly wooded areas where it was not practicable to take the planetable. Distances were paced to the elevations or photographic detail was used to locate the elevations on these lines. The running of long hand

level lines in heavily wooded areas was avoided where it was not possible to control direction of the lines. Most of the elevations were obtained by actual planetable shots. Traverses were tied in to pre-determined elevations. None of the closures were over .7 of a foot. Contours were shaped with the stereoscope and checked in the field by actual planetable shots. Drainage was drawn by using the stereoscope and checked in the field. The use of the stereoscope to supplement actual work in the field is very useful in this area. In numerous instances, the contours were set in drains and down steep hills and elevations not shown. In these cases, the contours were set with the hand level and checked at intervals with actual planetable shots. In the Fort Williams Military Reservation, contours were drawn without consideration for military detail. No positions of military importance were betrayed by closed contours. No detail was shown within the limits of the Reservation. On Richmond Island elevations were obtained from Bench Marks on the Island. Bench Marks were recovered and pricked on the photo and recovery cards submitted.

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. Bridges have been indicated on the field sheet along with main culverts.

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 building not labeled is to be deleted.

17. BOUNDARY MONUMENTS AND LINES:

This quadrangle lies wholly in Cumberland County, Maine. The main portion is in the town of Cape Elizabeth, with the exception of the northwest corner which is in the town of South Portland. The division between these towns is shown by the town boundary symbol on photograph No. 13687. This town line was located in the field and is correct as shown. The limits of Fort Miles Military Reservation have been delineated on photograph No. 13683 and are correct as shown. The map of this Reservation mentioned in Item #2, Completeness of Field Inspection, may be referred to.

18. GEOGRAPHIC NAMES:

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

19. JUNCTIONS:

Junctions with T-8513 on the north and T-8518 on the west have been made and are in agreement. There are no land junctions to the south or east of this quadrangle.

20. PHOTOGRAPHS USED:

Photographs used in surveying this area were Nos. 13685, 13686, 13687, 13683 and 13684. *(Apr. 18, 1943, 1:20000)*

Near M H W, per 30 Compil. Rep't.

Approved and forwarded by:

F. L. Gallen

F. L. Gallen
Chief of Party

Submitted by:

Marvin C. Jenkins

Marvin C. Jenkins
Sr. Eng. Aid

ROAD CLASSIFICATION FOR MAPS OF ALL SCALERS

| 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 noted.

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

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

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

MWL - Mean high water; fast land
LWL - Low water line
LL - Marsh shore line
M - Marsh
MG - Marsh grass in water
Dk - Dock
Pier - Pier
Se W - Sea Wall
Bkhd - Bulkhead
Jet - Jetty
Dol - Dolphin
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

WOODS AND BRUSH

TYPE

| | |
|----|-----------|
| D | Deciduous |
| E | Evergreen |
| Oy | 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

| | |
|----|--|
| HO | 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.) |
| LO | 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 LO; 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.

T-8519

CONTROL

Triangulation on published map

Cape Elizabeth East Lighthouse r 1943
Weather Bureau Tower r. 1942
Maxwell's barn cupola , 1923, r 1942
Trundy, 1941 r. 1942
Smug, 1941 r 1942
Ft. Williams Northeast Radio Tower r. 1941
Ft. Williams Southwest Radio Tower r. 1941
Portland Head Lighthouse r. 1941

Triangulation transferred from Manuscript at
time of registration

Cape Elizabeth West Lighthouse r. 1943

Landmarks & Aids to Navigation

Stone Tower, 1941
S. Chimney, Dr. Cummings' House 1923, r 1942 (triangulation)
Cape Elizabeth East Lighthouse (triangulation)
Cape Elizabeth West Lighthouse (triangulation)

Hydrographic Stations: on published map

U. S. Tidal B. M. No. 1, 1941
Stone Tower, 1941
Boundary Monument, 1943 (form 524 filed)

26 CONTROL:

The Compilation Office was furnished a red line print on celluloid by the Washington Office, scale 1:20,000, of the reproduction of planimetric Surveys No. T-5956 and portions of No. T-5957 and No. T-5958.

Recovery notes for the horizontal control stations shown within the limits of this Map Manuscript were not furnished this Compilation Office for the revision of the reproduced planimetric maps. This information was furnished the Compilation Office at the time the original planimetric surveys were made.

27 RADIAL PLOT: *(See Descriptive Report T-5956)*

No radial plot was necessary for this Map Manuscript as instructions dated May 1, 1943 require only the revision of the reproduced planimetric maps to the date of the nine lens photographs, April, 1943, and the addition of 20 ft. contours as determined by the Field Inspection Party.

28 DETAILING:

The field inspection furnished the Compilation Office by the Field Inspection Party was satisfactory.

The nine lens office photographs were of good scale and could be used for the revision of the red line print on celluloid, of the reproduced original planimetric maps, without the use of the vertical projector.

It is understood by the Compilation Office that the Washington Office delineated all drainage, by use of the stereoscope, shown on the nine lens field inspection photographs, prior to their being furnished the Field Inspection Party. This drainage was then verified as to its correctness by the Field Inspection Party. It was advantageous to the Compilation Office to transfer this drainage data directly from the field inspection photographs to the Map Manuscript.

All detailing was accomplished by orienting the nine lens photographs under the red line print on celluloid and using points of common detail for this purpose.

A few minor changes were made in the shoreline as was shown on the original reproduced planimetric maps. Buildings were added or deleted on this Map Manuscript according to the field inspection data.

28 DETAILING: (cont'd)

A field edited layout plan of Ft. Williams Military Reservation was furnished the Compilation Office by the Field Inspection Party. All buildings and roads, shown on this Map Manuscript, inside the Ft. Williams Military Reservation were detailed according to the data shown on the field edited layout plan.

Watt Ledge, which was detailed on the original planimetric map for Survey No. T-5956, was obliterated on the red line print on celluloid furnished this Compilation Office. Watt Ledge has been detailed on this Map Manuscript using the 1:20,000 nine lens office photographs.

The revision of the red line print on celluloid, of the original planimetric maps, has been confined to the area within the limits of the $7\frac{1}{2}$ 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:

| Survey No. | Date | Scale |
|------------|---------|----------|
| T-312 | 1850 | 1:10,000 |
| T-414 | 1852 | 1:10,000 |
| T-735 | 1854-58 | 1:10,000 |

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

Map of Fort Williams, Maine, Scale 1"=100' made by the office of the Constructing Quartermaster, Fort Preble, Maine, Date February, 1941.

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 1:20,000 scale nine lens 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 & SHOAL LINES:

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

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 1:20,000 scale nine lens photographs.

33 WHARVES AND SHORELINE STRUCTURES:

No additional wharves or shoreline structures, other than those shown on the red line print on celluloid, of the reproduced original planimetric maps, were visible on the 1:20,000 scale nine lens photographs.

34 LANDMARKS AND AIDS TO NAVIGATION:

No data concerning new landmarks or aids to navigation have been furnished the Compilation Office by the Field Inspection Party. See Descriptive Reports for Planimetric Air Photographic Surveys Nos. T-5956 & T-5958 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 LANDMARKS & AIDS TO NAVIGATION 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 nine lens photographs covering the area of this Map Manuscript.

37 DISCREPANCY OVERLAY:

A Discrepancy Overlay has been prepared to accompany this Map Manuscript. Due to the completeness of the field inspection furnished the Compilation Office by the Field Inspection Party, very few notes appear on this Discrepancy Overlay.

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 17, the geographic

38 GEOGRAPHIC NAMES: (cont'd)

names shown on the red line print on celluloid of the reproduced original planimetric maps, are adequate. However, the field report, paragraph 18, states that the geographic names are the subject of a special report which has not been furnished the Compilation Office.

39 HORIZONTAL ACCURACY:

It is believed that the horizontal accuracy of the Compilation of the original planimetric maps, reduced from 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 or deletions at the time of the field edit.

41 JUNCTIONS:

Revision of the Map Manuscripts for Surveys Nos. T-8513 and T-8518 have not been started at the time of the completion of the Map Manuscript for Survey No. T-8519.

Junction on the north will be made with Map Manuscript for Survey No. T-8513 at the time of its completion.

Junction on the west with Map Manuscript for Survey No. T-8518 will be handled in the same manner.

To the east and south of this Map Manuscript lies 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:

See Descriptive Report for planimetric air photographic Survey No. T-5956 for comparison of planimetry only with the U. S. Geological Survey Casco Bay, Maine 15 minute quadrangle, scale 1:62,500, edition of 1916, reprinted December 16, 1941.

The contours are in fair agreement.

45 COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with the U. S. Coast & Geodetic Survey Chart No. 315, scale 1:40,000, issued May, 1943 and reissued September 15, 1943. The ponds shown on Map Manuscript for Survey No. T-8519 are larger in size than those shown on the above chart. This is probably due to the difference in the time of year the photographs from which the compilation of the chart and this Map Manuscript were made.

At Crescent Beach at approximate Latitude $43^{\circ} 33' 45''$ and Longitude $70^{\circ} 14' 00''$ the shore line shown on the chart is approximately 60 meters further inland than that shown on the Map Manuscript.

Almost all the shoreline of Richmond Island, as shown on the Map Manuscript is in slight disagreement with the shore line shown on this Chart. The contours are in poor agreement.

Comparison was made with U. S. Coast & Geodetic Survey Chart No. 231, scale 1:20,000, issued May 1943, reissued September 15, 1943. The same is applicable as statements noted above for Chart No. 315. The contours are in poor agreement.

Comparison was made with U. S. Coast & Geodetic Survey Chart No. 325, scale 1:20,000, issued April 1943, reissued September 15, 1943. Common roads and all of the shore line were in excellent agreement. The contours are in poor agreement.

Respectfully submitted,
November 25, 1943

John M. Reinoldi
John M. Reinoldi
Sr. Photogrammetric Aid

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

Henry P. Eichert
Henry P. Eichert
Jr. Photogrammetric Eng.

Compilation of Map Manu-
script Supervised by:

Joseph Steinberg
Joseph Steinberg
Asst. Photogrammetric Eng.

and

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

Approved & Forwarded:
November 26, 1943

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

FIELD EDIT REPORT
to accompany
QUADRANGLE T-1019
Project 503-a

46. The field edit of this quadrangle was accomplished by a visual inspection of the topographical features as they were plotted on the compilation and by a plane table check of features which were questioned on the discrepancy overlay. The field edit notes were inked on the cloth backed print of the compilation according to the following color scheme:

AdditionsBlack Ink
DeletionsGreen Ink
DrainageBlue Ink
ContoursBrown Ink

Notes on the discrepancy overlay were answered in red ink.

47. The compilation is believed to be complete and accurate as corrected by the field edit. Considerable changes were effected in the contours and drainage in the Fort Williams area. These changes were made with the use of the plane table and stereoscope and were checked in the field before inking. No bridges large enough to be classified were included in this quadrangle.
48. Accuracy tests, both vertical and horizontal, are the subjects of special reports on project 503-a.

Submitted by

L.G. Chambers per F.H.

L.G. Chambers
Prin. Photo. Aid

Approved and forwarded

F.H. Gallen

F.H. Gallen
Chief of Party

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8519

CS 303 A

CAPE ELIZABETH, 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 (Meets National standard.)

Nearest Horizontal test falls in T-8518. Of the seventeen test points, only one was displaced more than 0.5mm.

One vertical test in T-8519, "shows no contour elevation differing from the true elevation by more than one-half 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.

| | | | |
|--------------|---------|-------------|---|
| T-312 & 312a | 1/10000 | 1850 & 1913 | } See discussion in Desc. Report T-5956 |
| 414 & 414a | " | 1852 & 1913 | |
| 735 | " | 1854-58 | |

H-6677 1/10000 1941, add'l 1942-3 " "

USE Casco Bay 1/62500 1916

| | | | |
|---|---------|-----------|-----------|
| | 231 | 1/20000 | May 1943 |
| <u>Comparison with Nautical Charts Nos.</u> | 325 | 1/20000 | June 1943 |
| | 1205 | 1/30000 | Sept 1943 |
| 315 | 1/40000 | May, 1943 | |

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:

231: Several rocks awash on chart not discernible on photographs.
325: Discussed in Descriptive Report T-5956,

See also discussion in Compilation Report of this map manuscript,

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

Many changes made in rocks awash and ~~maxx~~ reef along most of the shoreline.

Changes in contours and drainage, to conform to field edit information.

This review report was written from notes made on a check list at the time of review. (LTS, Apr. 1948)

Reviewed 25 April, 1944 By Louise M. Forrester
under direction of D. H. Benson Louise M. Forrester *per LTS*

Inspected by B. G. Jones *By Jones 8/48*

Examined and approved:

[Signature]
Chief, Surveys Branch

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

Asst. Chief, Topography Section
[Signature]
Chief, Topography Section
Nautical Chart Branch

[Signature]
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.

T-8519

1

Remarks

Decisions

| | | |
|----|---|-----------|
| 1 | See nautical charts 325, 315, 231 for some of the names on this list. | |
| 2 | | USGB |
| 3 | | " |
| 4 | | |
| 5 | | |
| 6 | | Road Maps |
| 7 | | |
| 8 | | 435701 |
| 9 | | " |
| 10 | | " |
| 11 | Pending with USGB | " |
| 12 | | " |
| 13 | | " |
| 14 | | " |
| 15 | | " |
| 16 | | 435702 |
| 17 | | " |
| 18 | | " |
| 19 | | " |
| 20 | | " |
| 21 | | " |
| 22 | | " |
| 23 | Not shown | " |
| 24 | | " |
| 25 | | " |
| 26 | | " |
| 27 | | " |

GEOGRAPHIC NAMES

Survey No. T-8519

CAPE ELIZABETH quadrangle

1 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 | |
| ✓ Atlantic Ocean | | | | | | | | | 1 |
| ✓ Casco Bay | | | | | | | | | 2 |
| ✓ Maine | | | | | | | | | 3 |
| ✓ Cumberland County | | | | | | | | | 4 |
| Towns of Cape Elizabeth, South Portland | | | | | | | | | 5 |
| ✓ State Road No. 77 | | | | | | | | | 6 |
| | | | | | | | | | 7 |
| ✓ Cape Elizabeth C.R. Station | | | | | | | | | 8 |
| ✓ Dyer Point | | | | | | | | | 9 |
| ✓ Dyer Cove | | | | | | | | | 10 |
| ✓ Staple Cove | | | | | | | | | 11 |
| ✓ Staple Point | | | | | | | | | 12 |
| ✓ Broad Cove (on Cape Elizabeth outer shore) | | | | | | | | | 13 |
| ✓ Maxwell Point | | | | | | | | | 14 |
| ✓ Trundy Reef | | | | | | | | | 15 |
| ✓ Cape Elizabeth (cape) | | | | | | | | | 16 |
| ✓ High Head | | | | | | | | | 17 |
| ✓ Seal Cove | | | | | | | | | 18 |
| ✓ Richmond Island | | | | | | | | | 19 |
| ✓ Richmond Island Harbor | | | | | | | | | 20 |
| ✓ Crescent Beach | | | | | | | | | 21 |
| ✓ Fort Point | | | | | | | | | 22 |
| ✓ Ship Cove | | | | | | | | | 23 |
| ✓ Maxwell Cove | | | | | | | | | 24 |
| ✓ Parrot Point | | | | | | | | | 25 |
| ✓ John Cove | | | | | | | | | 26 |
| ✓ McKenney Point | | | | | | | | | 27 |

Remarks.

Decisions

| | | |
|-------|-------------------|--|
| 1 | | 435702: all names on this section sheet |
| 2 | | |
| 3 | | |
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| 17 | | |
| 18 | | |
| 19 | | |
| 20 | Pending with USGB | |
| 21 | Pending with USGB | |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | |
| 26 | | |
| 27 | | |
| M 234 | | |

GEOGRAPHIC NAMES

Survey No. T-8519

| GEOGRAPHIC NAMES | | | | | | | | | | | |
|-------------------|-----------------------|--|---|---|---|---|---|---|---|----|----|
| Survey No. T-8519 | | | | | | | | | | | |
| 2 | Name on Survey | | | | | | | | | | |
| | | A | B | C | D | E | F | G | H | K | |
| ✓ | Hallicom Cove | | | | | | | | | 1 | |
| ✓ | Middle Rock | (covered at high water) | | | | | | | | | 2 |
| ✓ | Seal Rocks | | | | | | | | | 3 | |
| ✓ | Jordan Point | | | | | | | | | 4 | |
| ✓ | The Sisters | | | | | | | | | 5 | |
| ✓ | Little Cove | (north shore Richmond Island): as on chart 231 | | | | | | | | | 6 |
| ✓ | East Point | | | | | | | | | 7 | |
| ✓ | Broad Cove | (east shore Richmond Island) | | | | | | | | | 8 |
| ✓ | Watts Point | | | | | | | | | 9 | |
| ✓ | Watts Ledge | | | | | | | | | 10 | |
| ✓ | Adams Head | | | | | | | | | 11 | |
| ✓ | Clam Cove | | | | | | | | | 12 | |
| ✓ | Mussel Cove | | | | | | | | | 13 | |
| ✓ | Western Head | | | | | | | | | 14 | |
| ✓ | Little Pond | | | | | | | | | 15 | |
| ✓ | Richards Pond | | | | | | | | | 16 | |
| ✓ | Great Pond | | | | | | | | | 17 | |
| ✓ | Spurwink River | | | | | | | | | 18 | |
| ✓ | Willow Brook | | | | | | | | | 19 | |
| ✓ | Blue Hill | | | | | | | | | 20 | |
| ✓ | Alewives Brook | | | | | | | | | 21 | |
| ✓ | Cape Elizabeth | (village) | | | | | | | | | 22 |
| ✓ | Pond Cove | (village) | | | | | | | | | 23 |
| ✓ | Cape Elizabeth Church | | | | | | | | | 24 | |
| ✓ | Zeb Cove | | | | | | | | | 25 | |
| ✓ | Spring Cove | | | | | | | | | 26 | |
| ✓ | Pulpit Rock | | | | | | | | | 27 | |

T-8519

3
Decisions

Remarks.

| | Remarks. | Decisions |
|-------|----------|-----------|
| 1 | | 435702 |
| 2 | | " |
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| 5 | | " |
| 6 | | 436702 |
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| 11 | | " |
| 12 | | " |
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| M 234 | | |

GEOGRAPHIC NAMES

Survey No. T-8519

| GEOGRAPHIC NAMES | | | | | | | | | | | |
|-------------------|---------------------|--------------------------------|---|---|---|---|---|---|---|---|----|
| Survey No. T-8519 | | | | | | | | | | | |
| 3 Name on Survey | | A | B | C | D | E | F | G | H | K | |
| ✓ | Boat Cove | | | | | | | | | | 1 |
| J | Whale Back | (ledge) | | | | | | | | | 2 |
| ✓ | Peeble Point | | | | | | | | | | 3 |
| ✓ | Tundy Point | | | | | | | | | | 4 |
| ✓ | Hunts Point | | | | | | | | | | 5 |
| ✓ | Pond Cove | | | | | | | | | | 6 |
| ✓ | Pond Cove Brook | | | | | | | | | | 7 |
| J | Chimney Rock | (apparently not on manuscript) | | | | | | | | | 8 |
| ✓ | Portland Head | | | | | | | | | | 9 |
| ✓ | Portland Head Light | | | | | | | | | | 10 |
| ✓ | Fort Williams | | | | | | | | | | 11 |
| J | Delano Park | | | | | | | | | | 12 |
| J | Trout Brook | | | | | | | | | | 13 |
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Names underlined in red approved
by L Heck on 5/6/44

M 234

Names underlined in red approved
by L Heck on 5/6/44