

8517

8517

Diag'd. on Diag. Ch. No. - 1205 (insert)

FORM 504
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT
Type of Survey <u>Air Photographic Topographic</u>
Field No. <u>CS-303-C</u> , North Office No. <u>T-8517</u>
LOCALITY
State <u>Maine</u>
General locality <u>York Co. & Cumberland Co.</u>
Locality <u>Old Orchard Beach, Maine</u>
<u>1943 - 44</u>
CHIEF OF PARTY
<u>Fred L. Peacock</u>
LIBRARY & ARCHIVES
DATE <u>May 24, 1949</u>

DATA RECORD

T-8517

Quadrangle (II):
Old Orchard Beach $7\frac{1}{2}$ minute

Project No. (II):
CS-303-C North

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 1, 1943

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

Completed survey received in office: 7 Mar. 1944

Reported to Nautical Chart Section:

Reviewed: 28 April, 1944

Applied to chart No.

Date:

Redrafting Completed: 18 May 1944

Registered: 6 Oct. 1944

Published: May, 1945

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): LIBBY, 1941

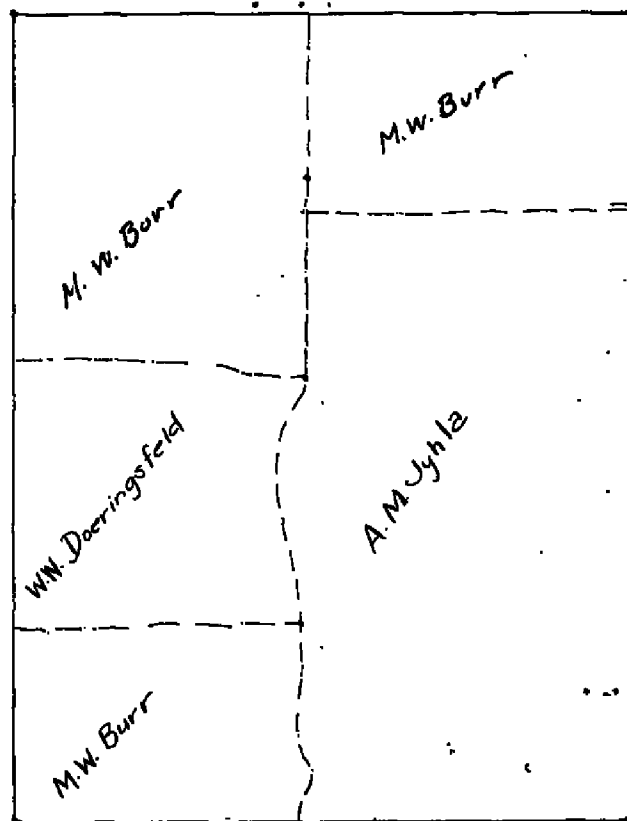
Lat.: $43^{\circ} 37' 02.342$ (72.3 m) Long.: $70^{\circ} 24' 51.957$ (1165.0 m) Adjusted
~~Redrafted~~

State Plane Coordinates (VI): ~~None~~

X = 434,384.83

Y = 285,840.27

Military Grid Zone (VI) "A" ~ Harbor Defense - - - -



PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
13703 to 13706 Incl.	4/18/43	12:24 P.M.	1:20,000	7.0' above M.L.W.
13710 to 13715 Incl.	4/18/43	12:40 P.M.	1:20,000	6.6' above M.L.W.
13732 to 13733 Incl.	4/18/43	1:00 P.M.	1:20,000	No tidal waters
13734 to 13737 Incl.	4/18/43	1:00 P.M.	1:20,000	6.0' above M.L.W.

Tide from (III): Predicted tables, reference station Portland, Maine, with corrections for Old Orchard Beach, Maine.
 Mean Range: 8.8' Spring Range: 10.1'

Camera: (Kind or source) U. S. Coast and Geodetic Survey, nine lens camera (focal length 8 1/4")

Field Inspection by: Morris W. Burr date: Spring, Summer, 1943

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

Date of Mean High-Water Line Location (III): Same as date of photographs

Projection and Grids ruled by (III) J.T.B. -P.J.H. date: 10/15/43

" " " checked by: J.T.B. date: 10/15/43

Control plotted by: Henry P. Eichert date: 10/19/43

Control checked by: William H. Van Loon date: 10/20/43

Radial Plot by: J. Edward Deal, Jr. and Joseph Steinberg date: 12/6/43 to 12/9/43

Detailed by: Albert C. Rauck, Jr. date: 1/8/44 to 3/4/44

Reviewed in compilation office by: Henry P. Eichert date: 2/26/44 to 3/6/44

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

STATISTICS (III)

Land Area (Sq. Statute Miles): 56

Shoreline (More than 200 meters to opposite shore): 1 statute mile

Shoreline (Less than 200 meters to opposite shore): $3/4$ statute mile
(measured along approximate centerline of streams)

Number of Recoverable Topographic Stations established: 4
(3 bench marks and 1 tidal bench mark)

Number of Temporary Hydrographic Stations located by radial plot: none

Leveling (to control contours) - miles: 78 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

This quadrangle, together with similar adjoining maps produced under Project C.S.303C, 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:

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.

Contouring by planetable directly on the photographs. 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

Compilation on the map manuscripts by radial plot methods (celluloid hand templates) of all planimetry and contours. These manuscripts were drawn on the scale of 1:20,000 on celluloid sheets on which polyconic projections had been ruled with the Projection Ruling Machine in the Washington Office. Compilation was accomplished in the Baltimore Tampa Photogrammetric Office.

FIELD EDIT

Comparison of a copy of the 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-8517
Project CS-303-C
F. L. Gallen, Chief of Party

1. DESCRIPTION OF AREA:

The area covered by this quadrangle lies in York and Cumberland Counties. The southwest portion lies in York County and the northeast portion lies in Cumberland County. The extreme northwest corner is also in York County. The edge of the city of Saco lies in the south central portion. Parts of the cities of Old Orchard and Ocean Park lie in the southeast corner; the village of Dunstan lies in the east central portion; and the village of South Buxton lies in the northwest corner. U. S. Highway No. 1 enters this quadrangle in the south central area at the city of Saco, and runs in a northeasterly direction, leaving the quad in the east central portion. State Highways 5 & 6 are in the southeast portion of the quad, connecting Old Orchard with U. S. Highway 1. State Highway 112 is in the southwest part of the quadrangle. The Boston and Maine Railroad has two lines in this area. The Portsmouth Branch leaves the west edge of the city of Saco and runs in a northeasterly direction leaving the quad at the north center. The Dover Branch leaves the east edge of the city of Saco and runs to Old Orchard, thence in a northeasterly direction until it leaves the quad. This quadrangle consists of farm land, meadows, timberland, and one large swamp. The farm land and meadows are generally sharply rolling, although a small part of them are fairly flat. The timberland is generally very rough and cut by numerous gullies. Wherever the timberland is only gently rolling the soil is either very sandy or very rocky. The timber consists of an almost equal parts of deciduous and evergreen trees. There are several varieties of each type. The brush is both evergreen and deciduous also and is generally very heavy. The brush along the streams is especially thick. The swampy area is called "the Heath". It is found in the west central portion and covers an area of several square miles. It is very flat area and does not drain well. However, when enough water accumulates it drains in all directions. It is covered by a very thick stand of high deciduous and evergreen brush. The drainage in this quadrangle is very irregular. In the east portion the streams are very flat and wide. In the west portion the streams are very steep and narrow. The Nonesuch River has a very peculiar drainage basin. It is very narrow and long. The river valley itself is very deep, but flat on the bottom. The other drainages have a conventional pattern. There are numerous salt marshes along the southeast boundary, found along the drainages where they are affected by tidal action.

2. COMPLETENESS OF FIELD INSPECTION:

The field inspection is thought to be complete. Buildings, churches, cemeteries, roads, and trees have all been classified. Only the buildings circled are to be shown on the map drawing. Those that are circled but not

designated are to be classed as dwellings. Trails are shown with a dashed red line, thus - - - -. Swamp areas are enclosed by a dashed blue line and marked SW. The drainage to be shown on the completed sheet is shown on the field sheet. The highways, U. S. 1, State 5, 6, & 112 have been labeled. 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, and any other small items erroneously omitted will be noted by the field edit party.

3. INTERPRETATION OF THE PHOTOGRAPHS:

The photographs for this quadrangle are typical to corresponding areas of this type. The deciduous trees show up rather grayish in color and are generally found in the lower areas. Some of the deciduous brush along the streams shows up almost black. This is true only when the brush is very dense. The evergreen trees show up as black and are generally on higher ground. The light mottled areas are cut-over land and are covered by brush and tangled dead tree tops. In some places, for instance the southwest corner of the quad, it was difficult to distinguish between natural features and cultural detail. This is probably due to the fact that these photos were taken in the early spring before there was any apparent deciduous foliage. To the naked eye, the rocky areas are similar in appearance to cultural detail. However, the lack of foliage enhanced the stereoscopic effect.

4. HORIZONTAL CONTROL:

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

5. VERTICAL CONTROL:

Bench marks were recovered and pricked on photographs and submitted to the Baltimore Office. Supplementary level lines were run over the main roads in this quadrangle to provide sufficient control for the plane-table 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.

6. CONTOURS AND DRAINAGE:

Contouring was carried on by a four-man planetable party using standard Coast and Geodetic Survey methods and equipment. The first operation in contouring was to establish a line of magnetic declination on the photo. It was established by orienting the planetable along a long, straight stretch of road, that was free of magnetic attractions, near the center of the photo. The declinoaire was used thereafter to orient the table where it was impossible to orient by other means. The date and time of day were recorded near the line of declination. All contouring was done on the photographs. Planetable shots and cultural detail were used whenever possible to locate the contours. Hand level

lines and pacing were used to locate and space the contours wherever the woods were too thick to use the planetable efficiently. The larger portion of contours and elevations shown were taken by planetable shots. The secondary drainage and flow lines were located by stereoscope and checked in the field. The stereoscope was found very helpful in shaping the contours in this area. Closed contours were occasionally shown below the contour interval in order to express properly the topography of the area. Wherever this survey conflicted with previous surveys, elevations were -- spotted. In the southwest corner of the quad this survey differed with the previous survey. The previous survey showed a 60 foot contour following the river closely. This survey shows the 60 foot contour as running far back from the river. There were no closures with the planetable in excess of .6 of a foot. Most of the planetable elevations taken were inked on the photographs. It is suggested that in the future a water-soluble type of ink should be used for the drainage inked in by the main office, as parts of it had to be removed or relocated and the white ink used was very hard to take off.

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 map drawing are circled in red. Buildings not labeled are to be classed as dwellings. Stores, barns, churches, and other buildings are labeled. Any building not circled or labeled is to be deleted.

17. BOUNDARY MONUMENTS AND LINES:

This quad, which lies in the Counties of York and Cumberland, is sub-divided into the towns of Old Orchard, Saco, Buxton, Gorham, Scarboro, and Biddeford. Only a small portion in the southwest corner is in Biddeford --the Saco River forming the boundary. The county line, monuments of which have been pricked in the field and shown on the photos by red circled, forms the boundary line between Old Orchard and Scarboro, and between Saco and Scarboro. It also forms a portion of the boundary between Buxton and Scarboro. The boundary between Scarboro and Gorham, in the north central portion, is shown on the photos by monuments and town lines which were located in the field. This is also true of the line between Saco and Buxton in the northwest corner of the quad. The town line between Old Orchard and Saco in the southeast corner of the quad has been designated in a like manner. All boundary monuments and lines shown on this quad are correct and no further investigation is necessary.

18. GEOGRAPHIC NAMES:

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

19. JUNCTIONS:

Junctions with T-8511 on the north, T-8518 on the east, T-8520 on the south have been made and are in agreement. Junctions with the Geological Survey on the south were found to agree very well. However, junctions with the Geological Survey on the west were found in error on their part in the places noted on the photos. Whenever a discrepancy was noted, the contours were extended over the boundary to where they were in agreement. Contours on this quad were "set" along the junction line and it is left up to the compilation office to make minor shifts for final agreement.

20. PHOTOGRAPHS USED:

Photographs used in surveying this area were: Nos. 13704, 13705, 13706, 13711, 13712, 13713, 13714, 13715, 13732, 13733, 13734, 13735, and 13736.

Approved and forwarded by:

Submitted by:

F. L. Gallen

F. L. Gallen
Chief of Party

Morris W. Burr

Morris W. Burr
Sr. Photo. Aid

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	3 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 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 **3** or **4** 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
HDS - 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

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 - Dolphie
Pile - Pile
S - Sand
Mud - Mud

Rk - Rock or Rocky
Sty - Stony
Cons - 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:

Sixteen horizontal control stations were used to control the orientation of the photographs for the establishment of photograph centers, secondary, and detail points on this Map Manuscript.

Of these sixteen horizontal control stations, seven are U. S. Coast and Geodetic Survey triangulation stations and nine are U. S. Geological Survey Traverse Stations.

Seven of these horizontal control stations lie within the limits of the Map Manuscript. They are:

- LIBBY, 1941
- MAINE 93, 1914, S (U.S.G.S.)
- MAINE 134, 1914, S (U.S.G.S.)
- OLD ORCHARD STANDPIPE, 1923, r.1941
- SAGO ORTHODOX CHURCH SPIRE, 1850
- ** TRAVERSE STATION 2732 (U.S.G.S.)
- WEST SCARBORO STANDPIPE, 1943

** This station was pricked on the photographs by the Baltimore Compilation Office.

Field inspection stations were established by the Field Inspection Party at well defined points near five of the sixteen horizontal control stations. This assured accurate pricking of these horizontal control stations on the office photographs. These Field Inspection Stations are shown by small orange ink circles on the reverse side of the Map Manuscript.

Nine stations lie just outside the limits of the Map Manuscript. They are:

- BIDDEFORD, PEPPERELL CO. STACK, 1941
- BIDDEFORD, ST. JOSEPH'S CATHOLIC CHURCH SPIRE, 1941
- BLUE POINT HILL CONGREGATIONAL CHURCH SPIRE, 1943
- TT49TDA 1940 (U.S.G.S.)
- TT53TDA, 1940 (U.S.G.S.)
- TT54TDA, 1940 (U.S.G.S.)
- TT55TDA, 1940 (U.S.G.S.)
- TT59TDA, 1940 (U.S.G.S.)
- MAINE 181, 1944 (U.S.G.S.)

27 RADIAL PLOT:

The radial plot for this Map Manuscript is part of Section 2 of the

main radial plots for Project C.S. 303. It will be described in the descriptive report for Survey No. T-8511 which will be submitted to the Washington Office in the near future.

28 DETAILING:

Adequate field inspection data was furnished the compilation office on nine lens photographs, scale 1:20,000.

Boundary lines and monuments are shown on the reverse side of the Map Manuscript with blue acid ink. Monuments, as indicated on the field inspection photographs, have been shown with a small square.

All streams and minor drainage above tide water are shown with blue acid ink.

Tree areas are outlined with green acid ink. These tree areas are classified with the letters "A", "B", and "C" to correspond, according to recommendations made by the Washington Office, with their respective density classes.

"A" to represent dense tree areas 10' or more in height.

"B" to represent sizable brush areas.

"C" to represent scattered brush and/or trees.

As per instructions in the field report for this Map Manuscript, only those buildings as indicated by the Field Inspection Party, are shown on the Map Manuscript. Where groups of buildings, erroneously omitted at the junction of two units of the Field Inspection Party, were found, they were noted on the discrepancy overlay.

No classifications of bridges or culverts are given by the Field Inspection Party. These are to be classified by the Field Edit Party.

The names of a few of the main roads, streets, and avenues in the towns of Saco and Old Orchard Beach are shown on the Map Manuscript.

29 SUPPLEMENTAL DATA:

<u>SURVEY No.</u>	<u>DATED</u>	<u>SCALE OF</u>
T-759	1859	1:10,000
T-878***	1862	1:20,000
T-1224	1871	1:10,000
T-1224a	1913	1:10,000
T-1225	1871	1:10,000
T-1225a	1912-13	1:10,000

*** Reconnaissance Survey

These surveys were not available to the compilation office.

One paper print of Map of Biddeford, Saco, and Old Orchard Beach, scale 1":800'. This map shows verified street names, which were used on the Map Manuscript. One vellum copy of south and east edge of Buxton, Maine, quadrangle, to be used to junction at the west of this Map Manuscript.

One ozalid print of Planimetric Map No. T-5954. This was used to verify the existence of two rocks off the high water line of Old Orchard Beach.

30 MEAN HIGH WATER LINE:

The stage of tide of the photographs used in the process of detailing this Map Manuscript was computed and found to be at or near three-quarter tide.

Adequate shoreline data was furnished the compilation office by the Field Inspection Party for the location of the mean high water line at Old Orchard Beach.

31 LOW WATER AND SHOAL LINES:

No low water or shoal lines were indicated by the Field Inspection Party and only the approximate low water line at Old Orchard Beach was delineated from the office photographs.

The shoreline of the Saco River, east of Saco, has been shown with a medium weight line so as not to be confused with the light off-shore marsh line or the heavy high water line. Due to dams in the Saco River below this area, it is believed that this portion of the Saco River is not subject to tidal action.

32 DETAILS OFF-SHORE FROM THE HIGH WATER LINE:

No details off-shore from the high water line were indicated by the Field Inspection Party and none were delineated from the office photographs. There is, however, some unidentified detail in the Saco River, approximately one mile east of Saco. This has been noted on the discrepancy overlay.

33 WHARVES AND SHORELINE STRUCTURES:

No wharves or shoreline structures were identified by the Field Inspection Party and none were delineated from the office photographs.

34 REMARKS ON THE PHOTOGRAPHS:

34 LANDMARKS AND AIDS TO NAVIGATION:

No landmarks or fixed aids to navigation lie within the limits of this Map Manuscript.

35 HYDROGRAPHIC CONTROL:

Tidal Bench Mark 1 at Old Orchard Beach which was radially plotted has limited use as partial hydrographic control. There is, however, one triangulation station, namely: Old Orchard Standpipe, 1923, 1941, which due to its proximity to the coast line, may be used as partial hydrographic control for any future hydrographic survey.

36 LANDING FIELDS AND AERONAUTICAL AIDS:

No data has been furnished the compilation office concerning any landing fields or aeronautical aids within the limits of this Map Manuscript.

37 DISCREPANCY OVERLAY:

A discrepancy overlay has been prepared, during the process of detailing, to accompany this Map Manuscript. On it are notes in reference to omissions, and differences of interpretation between the field inspection data and the compilation office. Other notes, all of which are likely to be of assistance to the Field Edit Party are included.

The contours shown on the field inspection photographs that do not come up to the contour interval have not been transferred to the Map Manuscript. These have been shown on the discrepancy overlay. It is believed by the compilation office that it is incorrect for these contours to appear on the Map Manuscript. However, the elevations which give the proper expression to this topography have been shown on the Map Manuscript.

38 GEOGRAPHIC NAMES:

The results of a geographic name investigation by A. J. Wraight was furnished the compilation office on a copy of the U. S. Geological 15 min. Portland, Maine quadrangle. This investigation covers only a portion of the area of this Map Manuscript. A note included in this data indicates that all geographic names outside the limits of this investigation are included on U. S. Coast & Geodetic Planimetric Maps. This compilation office cannot find any recent previous planimetric maps covering the portion of the area of this Map Manuscript beginning Lat. 43°-30' and Long. 70°-24' then north to Lat. 43°-34' then east to Long. 70°-23' then north to Lat. 43°-36' then west to Long. 70°-26' then south to Lat. 43°-30' then east to the point of beginning.

All geographic names shown on the planimetric maps outside the area

of the geographic name investigation by A. J. Wraight have been shown on the Map Manuscript.

In all cases undisputed names only have been shown on the Map Manuscript.

A list of undisputed, disputed, and recommended geographic names is attached to this Descriptive Report.

39 HORIZONTAL ACCURACY:

The horizontal accuracy of this Map Manuscript is believed to be within the limits set forth, for well defined points and less well defined points of detail, under paragraph 23, of the instructions for War Mapping Project GS-303, dated May 1, 1943.

40 RECOMMENDATION FOR FUTURE SURVEYS:

The planimetric detail, as presented on this Map Manuscript, is believed to be complete, including all field inspection data and careful interpretation of the photographs, where field data was lacking. It is subject to revision, deletions and additions by the Field Edit Party.

41 JUNCTIONS:

Complete and satisfactory junctions have been made with the following Map Manuscripts:

To the north - with Map Manuscript for Survey No. T-8511
To the east - with Map Manuscript for Survey No. T-8518
To the south - with Map Manuscript for Survey No. T-8520

To the west a junction was made with a vellum copy of the east edge of the Buxton, Maine quadrangle, scale of 1:48,000 increased to the scale of 1:20,000. This vellum copy was furnished the compilation office by the Washington Office.

It was found that the following detail failed to junction:

A road at Latitude $43^{\circ} 33' 30''$, leading west from an intersection with State Highway 112, failed to junction by approximately 40 meters.

A road at approximate Latitude $43^{\circ} 32' 30''$ failed to junction by approximately 20 meters.

A road just north of Latitude $43^{\circ} 32'$ did not junction by approximately 50 meters.

State Highway 5 did not junction by approximately 50 meters.

A power line just south of State Highway 5 did not junction by approximately 60 meters.

The New England Telephone and Telegraph Line (underground) as shown on the Map Manuscript has not been shown on the vellum copy of the Buxton, Maine quadrangle.

Most of the minor drainage shown on the Map Manuscript has not been shown on the vellum copy of the Buxton, Maine quadrangle.

All other planimetry junctioned satisfactorily. The contours on the Map Manuscript have been "tied in" to the contours as shown on the vellum copy of a portion of the Buxton, Maine quadrangle, as per recommendations in the Field Inspection Report and data shown on the Field Inspection Photographs.

42 REMARKS:

The description, as prepared by the Field Inspection Party in the Field Inspection Report, adequately describes the area covered by this Map Manuscript.

43 BENCH MARKS:

The positions of four bench marks have been determined by radial intersections within the limits of this Map Manuscript.

Form No. 524 is being submitted for the geographic positions and descriptions of these four bench marks.

BH ME35
71
95 1923
TBR 11 1923

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Comparison was made with the U. S. Geological Survey, Portland, Maine, 15' quadrangle, scale of 1:62,500, reprinted in 1943. Due to scale difference, only a general comparison of common highways and shoreline could be made, and these were found to be in good agreement. It was noted, however, that the U. S. Geological Survey shows the Portland and Saco Electric R. R. running parallel and adjacent to U. S. Route No. 1, northeast from Saco, Maine, to Portland, Maine. This electric railroad is not shown on the Map Manuscript, as it could not be delineated from the photographs and it was not identified by the Field Inspection Party. It is believed that this railroad has been abandoned or removed. A branch of the Boston and Maine railroad which parallels the coastline from Old Orchard Beach south to Camp Ellis is shown on the U. S. Geological quadrangle. This railroad

The Portland and Saco Electric R.R., and the branch of Boston and Maine R.R. have not been noted by Field Edit Party. During the review photographs were examined under stereoscope for these railroads. They could not be seen. P&S.E.R.R. is not shown on map. The location of Boston and Maine R.R. is serving as a street.

was not identified by Field Inspection and could not be seen on the office photographs. It is not shown on the Map Manuscript.

45 COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with the following U. S. Coast and Geodetic Survey Charts:

Chart No. 231, scale of 1:20,000, dated September 15, 1943.

Chart No. 1205, scale of 1:80,000, dated September 15, 1943.

On comparison, these charts were found to be in good agreement with the Map Manuscript, with the following exception: There appears on these two charts a branch of the Boston and Maine Railroad running south from Old Orchard Beach to Camp Ellis. This branch of the Boston and Maine Railroad is not shown on the Map Manuscript as noted in the previous paragraph.

In addition, two rocks indicated on Planimetric Map No. T-5954, and also shown on the Map Manuscript, are not shown on U. S. Coast and Geodetic Charts Nos. 231 and 1205. Chart No. 231 shows no obstruction of any kind in this area and Chart No. 1205 shows only a sand obstruction.

*The Boston and Maine R.R. is used as a street
The two rocks have been investigated by Field Edit Party.
They are shown on the manuscript. ~~The~~ The
rocks bore at High Water.*

The manuscript shows the two rocks awash which is incorrect according to the field edit data. Field edit indicates the northerly rock as boring at H.W. and the southerly rock as being awash at H.W. The manuscript had been applied to nautical charts ^(#231) showing the two rocks as awash. The Division of Charts has been notified of the correct status of these two rocks as per field Edit.

Manuscript T-8517 has been corrected.

5/23/49

K. Mahi

Respectfully submitted,
March 3, 1944

Albert C. Rauck, Jr.
Albert C. Rauck, Jr.,
Senior Photogrammetric Aid

Map Manuscript, Discrepancy
Overlay, and Descriptive Report
reviewed by:

Henry P. Eichert
Henry P. Eichert
Junior Photogrammetric Engineer

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 and Forwarded:
February 7, 1944

Fred. L. Peacock
Fred. L. Peacock
Commander, C & G Survey
Officer-In-Charge
Baltimore Photogrammetric Office

LIST OF GEOGRAPHIC NAMES

Undisputed

- | | |
|--|--------------------------------------|
| ✓ Ash Road | ✓ Mitchill Hill |
| ✓ Beaver Brook <i>Banks R</i> | ✓ New County Road |
| ✓ Beech Ridge | ✓ Nonesuch River |
| ✓ Beech Ridge Road <i>Brook</i> | ✓ Nonesuch School |
| ✓ Beech Ridge School | ✓ North Beach Road <i>Ocean Park</i> |
| ✓ Berry Hill | ✓ Old County Road |
| ✓ Biddeford <i>(township)</i> | ✓ Old Orchard <i>(township)</i> |
| ✓ Big Ledge | ✓ Phillips Brook |
| ✓ Bond Brook | ✓ Phillips Spring <i>Pine Park</i> |
| ✓ Boston & Maine Railroad (Portsmouth Line and Dover Line) | ✓ Portland Road |
| ✓ Boon Road | ✓ Ricker Road |
| ✓ Boynton Brook | ✓ Saco (township) |
| ✓ Broad Turn Road | ✓ Saco (town) |
| ✓ Burnham Road <i>School (?)</i> | ✓ Saco City Farm |
| ✓ Buxton (township) | ✓ Saco River |
| ✓ Carter Brook | ✓ Sandy Brook (town corner) |
| ✓ Carter Hill | ✓ Sandy Brook (brook) |
| ✓ Cascade Brook | ✓ Sandy Brook School |
| ✓ Cole Brook | ✓ Sawyer School |
| ✓ Cumberland County | ✓ Scarboro (township) |
| ✓ Deep Brook | ✓ Shadagee Road |
| ✓ Dennett Brook | ✓ Skilly Brook |
| ✓ Dunstan River <i>Dunstan</i> | ✓ Skilly Hills <i>Slater Hill</i> |
| ✓ Finnerd Brook | ✓ South Branch |
| ✓ Flagg Pond Road | ✓ South Buxton |
| ✓ Flag Pond School | ✓ Stuart Brook |
| ✓ Fogg Hill | ✓ The Heath |
| ✓ Goosefare Brook | ✓ Thurstons Mill Road |
| ✓ Goosefare Hill <i>Gorham (township)</i> | ✓ Two Rod Road |
| ✓ Grant Road | ✓ West Scarboro |
| ✓ Grant Brook | ✓ York County |
| ✓ Harmon Brook (York County) | |
| ✓ Heath Meetinghouse | |
| ✓ Heath Road | |
| ✓ Innis Brook | |
| ✓ Jenkins Road | |
| ✓ Lincoln Road <i>Little R.</i> | |
| ✓ Merrill Brook | |
| ✓ Mill Brook | |
| ✓ Milliken Mills | |
| ✓ Milliken Road | |

LIST OF GEOGRAPHIC NAMES
(Cont'd.)

Recommended Names

✓ Fogg Brook
✓ Meserve Brook
✓ Nonesuch Brook
✓ Ward Brook

Disputed Names

✓ Harmon Brook
✓ Silver Brook
✓ Laraby Brook
✓ Foss Brook

For Deletion

✓ Thurstone Mill

T-8517

1

Remarks

Decisions

1		USGB
2		
3		
4		
5		
6		Railway Guide
7		Road Maps
8		"
9		434703
10		
11		435703
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		436703
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8517

OLD ORCHARD BEACH quadrangle

1 Name on Survey

	A	B	C	D	E	F	G	H	K	
✓ Maine										1
✓ Cumberland County										2
✓ York County										3
Towns of Scarborough, Gorham, Duxton (Cumberland Co.)										4
Towns of Old Orchard, Saco, Biddeford (York Co.)										5
✓ Boston & Maine R.R.										6
✓ U.S. No. 1										7
State Nos. 5, 6, 9, 22, 112										8
✓ Saco River										9
										10
✓ Old Orchard Beach (town)										11
✓ Camperound (village)										12
✓ Ocean Park										13
✓ Milliken Mills										14
✓ Cascade Brook										15
✓ Mill Brook										16
✓ Stuart Brook										17
Little River not shown (upper part of it here)										18
✓ Phillips Brook										19
✓ Dunstan West Scarborough P.O. (apply to same place)										20
✓ Finnerd Brook										21
✓ Dunstan River										22
✓ Beaver Brook										23
✓ Banks River										24
✓ Two Rod Road										25
✓ Payne Road										26
✓ Beach Ridge Brook (not Road)										27

T-8517

2

Remarks

Decisions

1		435703
2		436703
3		436704
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11	Pending with USGB	"
12		"
13	Pending with USGB	"
14		"
15		"
16		"
17		"
18		435704
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8517

2	Name on Survey	A	B	C	D	E	F	G	H	K	
✓	Nonesuch River ✓	(two places)									1
✓	Saco Road ✓	(from Westbrook southerly direction)									2
✓	Beech Ridge ✓										3
✓	Beech Ridge School ✓										4
✓	Mitchell Hill ✓										5
✓	Carter Brook ✓										6
✓	Carter Hill ✓										7
✓	Merrill Brook ✓										8
✓	Broad Turn Road ✓										9
✓	Burnham Road ✓										10
✓	Meserve Brook ✓										11
✓	Fogg Hill ✓										12
✓	Fogg Brook ✓										13
✓	South Branch ✓	(of Stroudwater River)									14
✓	South Buxton ✓										15
✓	Buxton Road ✓										16
✓	Old County Road ✓	(No. 22)									17
✓	Nonesuch Brook ✓										18
✓	Thurstons Mill Road ✓										19
✓	Grant Road ✓										20
✓	Nonesuch School ✓										21
✓	Skilly Hills ✓										22
✓	Skilly Brook ✓										23
✓	Bond Brook ✓										24
✓	Broad Turn School ✓										25
✓	Ash Road ✓										26
✓	Lincoln Road ✓										27

Remarks

Decisions

1		435704: all names
2	Pending with USGB	on this page are on this section sheet
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T-8517

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

Ricker Road

1

Ward Brook

2

Boynton Brook

3

Flag Pond Road

4

Flag Pond School

5

Harmon Brook

6

Heath Meetinghouse

7

Heath Road

8

Milliken Road

9

Grant Brook

10

Berry Hill

11

Sawyer School

12

The Heath

13

Sandy Brook

(crossroads settlement)

14

Sandy Brook School

15

Sandy Brook

16

Dennett Brook

17

Deep Brook

18

Big Ledge

(hill)

19

Big Ledge Brook

20

Cole Brook

21

Boon Road

22

New County Road

(No. 5)

23

Shadagee Road

24

North Beach Road

(No. 112)

25

Saco City Farm

26

Goosefare Hill

27

Remarks

4
Decisions

1	Pending with USGB	434703
2		435704
3		"
4		"
5		"
6		"
7		"
8		"
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T-8517

GEOGRAPHIC NAMES											
Survey No. T-8517											
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		
4		A	B	C	D	E	F	G	H	K	
✓	<u>Goosefare Brook</u> ✓									1	
✓	<u>Jenkins Road</u> ✓									2	
✓	<u>Slater Hill</u> ✓									3	
✓	<u>Phillips Springs</u> ✓									4	
✓	<u>Innis Brook</u> ✓									5	
✓	<u>Portland Road</u> ✓ (US No. 1)									6	
✓	<u>Saco</u> ✓									7	
✓	<u>Pine Park</u> ✓									8	
										9	
										10	
										11	
										12	
										13	
										14	
										15	
										16	
										17	
										18	
										19	
										20	
										21	
										22	
										23	
										24	
										25	
										26	
										27	

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

FIELD EDIT REPORT
TO ACCOMPANY
QUADRANGLE T-8517
PROJECT 305-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 with standard field instruments and methods being used to check discrepancies noted on the overlay. Roads, buildings, drainage and other features have been inspected and classified where omitted by the field inspection party. Bridges have been classified according to instructions. The various field edit notes have been plotted on an ozalid copy of the compilation according to the following color scheme:

Additions Black
Deletions Green
Drainage Blue
Contours Brown

Notes on the discrepancy overlay have been checked with red ink.

47. The compilation is believed to be complete and accurate as corrected by the field edit. Contours and drainage have been reshaped in several places with the aid of the stereoscope after being inspected in the field.
48. Accuracy tests, both vertical and horizontal, are the subjects of special reports on project 305-A.
49. Junctions have been checked with the U. S. G. S. survey on the west, T-8518 on the east and T-8520 on the south.

Submitted by

L. G. Chambers per F. L. G.

L.G. Chambers
Prin. Photo. Aid

Approved and forwarded

F. L. Gallen

F. L. Gallen
Chief of Party

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8517

Old Orchard Beach QUADRANGLE, Me

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 Test: A maximum displacement of 0.41mm.

Vertical Accuracy Test: Two tests indicate that the map meets the standard of accuracy.

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-759	1/10000	1859
T-878	1/20000	1862
T-1224	1/10000	1871
T-1224a	1/10000	1913
T-1225	1/10000	1871
T-1225a	1/10000	1912-17

These surveys cover only a very small portion of T-8517. The new survey supersedes the previous surveys.

Comparison with Nautical Charts Nos. 231 1/20000 1943
1205 1/80000 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: Two rocks whose approximate positions are

Lat 43° 30' 25" Long. 70° 22' 44"
Lat 43° 30' 16" Long 70° 22' 47"
do appear on the charts.

- Supp 10

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

This report was made from notes written during review.
L.T.S.

Reviewed April, 1944 By Miles M. Schuler
under direction of D. H. Benson *per TS*

Inspected by B. G. Jones

B.G. Jones

Examined and approved:

~~Chief, Surveys Branch~~

J. B. Edwards
Chief, Div. of Charts

K.T. Adams
Chief, Topography Section

W.M. Sciple
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.