FORM 504
U.S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: Air Photographic Topography

Field No. Office No.: T-8521

LOCALITY

State: Maine
General locality: Fletcher Neck
Locality: Biddeford Pool

1941
CHIEF OF PARTY
Fred. L. Peacock

LIBRARY & ARCHIVES

DATE: March 23, 1948
MEMORANDUM to Mr. B. C. Jones

FLETCHER NECK COAST GUARD L. O. TOWER, 1941, was destroyed prior to the summer of 1943 and a Radar Tower has been built in the near vicinity. Is it possible the later tower was picked on the photographs by the compilation office? The triangulation station should not be shown on the final map since it can no longer be recovered.

G. R. Fish

Deleted
DATA RECORD
T-8521

Quadrangle (II): Biddeford Pool 7\frac{1}{2} minute

Field Office: Sanford, Maine

Compilation Office: Baltimore, Md.

Instructions dated (II III):
May 1, 1943
Aug 31, 1943

Completed survey received in office: 7 Jan. 1944

Reported to Nautical Chart Section:

Reviewed: 4/7/44

Redrafting Completed: 22 April, 1944

Registered: 13 Feb. 1944

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): FLETCHER NECK, 156, 1941
Wood Is. Lighthouse

Lat. 43° 26' 55.921" 1725.0m
Long. 70° 20' 30.066" 676.0m

Adjusted
43° 27' 24.12" 714.4 m
70° 19' 46.164" 1057.7 m

Unadjusted

State Plane Coordinates (VI): Maine, West zone

X = 456,765.33 ft
Y = 227,240.58 ft

Military Grid Zone (VI)
Zone A

Special Harbor Defense Grid every 1000 yds.
Portsmouth, Portland area
PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>13707</td>
<td>4/18/43</td>
<td>12:34p.m.</td>
<td>1:20,000</td>
<td>6.41' above M. L. W.</td>
</tr>
<tr>
<td>13708</td>
<td>4/18/43</td>
<td>12:34p.m.</td>
<td>1:20,000</td>
<td>6.41' above M. L. W.</td>
</tr>
<tr>
<td>13709</td>
<td>4/18/43</td>
<td>12:34p.m.</td>
<td>1:20,000</td>
<td>6.41' above M. L. W.</td>
</tr>
<tr>
<td>13710</td>
<td>4/18/43</td>
<td>12:40p.m.</td>
<td>1:20,000</td>
<td>6.25' above M. L. W.</td>
</tr>
<tr>
<td>13711</td>
<td>4/18/43</td>
<td>12:40p.m.</td>
<td>1:20,000</td>
<td>6.25' above M. L. W.</td>
</tr>
</tbody>
</table>

Tide from (III); Predicted tables of tides for reference station Portland, Maine, with corrections for Wood Island Harbor, Maine
Mean Range: 3.7'  
Spring Range: 9.9'

Camera: (Mfd or source) U. S. Coast & Geodetic Survey nine lens camera (focal length 81")

Field Inspection by: L. LeForrest Miller  
Field Edit by: L. G. Chambers

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

Projection and Grids ruled by (III) Washington Office  
" " checked by: Washington Office

Control plotted by: John P. Kubasoc  
Control checked by: Henry P. Eibert

Radial Plot by: William H. VanLoon & John P. Kubasoc

Detailed by: Mildred M. Trautman

Reviewed in compilation office by: William H. VanLoon

Elevations on Field Edit Sheet L. G. Chambers checked by:

Date: Summer & Fall 1943
Date: Jan., 1944
Date: Unknown
Date: Unknown
Date: October 1, 1943
Date: October 2, 1943
Date: October 13 to October 16, 1943
Date: December 2, 1943 to January 5, 1944
Date: January 3 to January 5, 1944
Date: Jan., 1944
Land Area (Sq. Statute Miles): 2

Shoreline (More than 200 meters to opposite shore): 12 Statute Miles

Shoreline (Less than 200 meters to opposite shore): .57 Statute Miles

Number of Recoverable Topographic Stations established: 1

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: Unknown.

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

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

When entering names of personnel on this record give the surname and initials (not initials only).

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

T-8521

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

AVAILABLE MAPS

The purpose of projects C.S. 303B and 303D was to prepare 1:25,000 scale 7½-minute quadrangles, 20 foot contour interval. The U. S. Geological Survey had recently completed 1:62,500 scale quadrangles of this area, and it was decided after conversation with the War Department to use the contours and as much of the planimetry as possible from these existing maps.

Copies of the U.S.G.S. source material were obtained, and on projects 303B and 303D this material was assembled into 7½-minute quadrangles and printed on metal-mounted boards in blue for field use. Copies of these same quadrangle assemblies were prepared for the photogrammetric office.

FIELD SURVEYS

The area was photographed at 1:20,000 scale with the nine-lens camera.

Field surveys prior to compilation include:

(a) **Vertical accuracy test of the U.S.G.S. contours.** The 1:25,000 scale blue line boards mentioned above were used for this purpose. In general, the contouring checked well within the required accuracy for the 1:25,000 scale maps.

(b) **Horizontal accuracy test,** which indicated that, generally, the planimetry from the 1:62,500 scale maps was not in sufficient detail and not quite within the accuracy requirements for the 1:25,000 scale quadrangles.
(c) Field inspection of the aerial photographs for clarification of details.

COMPILED OF MANUSCRIPT

Photogrammetric office work included:

(a) Compilation of a new 1:25,000 scale planimetric map from the nine-lens photographs and field inspection data.

(b) Compilation onto the planimetric map of contours from the blueline boards mentioned above, and including the corrections made by the field party.

FIELD EDIT

The compiled manuscripts, as mentioned above, were field-edited for details, but, generally, this work did not include accuracy tests, since these tests were made prior to compilation, as mentioned under Field Surveys. On this quadrangle the vertical acc. test was made during field edit.
2. **Completeness of Field Work:**
   
   The field work on this quadrangle is believed to be complete. All roads and buildings to be shown have been classified. wooded areas have been classified according to instructions. Low ground and swampy areas were designated.


15. See report for T-8505.

17. There were no boundary monuments or lines to be designated on the small land area covered by this quadrangle.

18. **Geographic Names:**
   
   Geographic names are the subject of a special report on this project by A. J. Wraight. (See paragraph 38 of compilation report)

46. **Methods:**
   
   The field work was done on USGS nine-lens photographs, by visual inspection in the field. Inking was done in the office. The buildings on Basket Island and buildings and lights on Wood Island were located by observation from the mainland. All items and features are shown in red except the drainage which is in blue.

47. See report for T-8505.

48. **Accuracy Tests:**

   Horizontal test traverse No.5 covers this quadrangle. See special report. No accuracy tests were made for this area in division of photogrammetry files.

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Approved and forwarded by:  

F. L. Callen  
Chief of Party

Submitted by:

L. LeForrest Miller  
Jr. Topo. Engr.

[Signature]
WOODS AND BRUSH

TYPE

D  Deciduous
E  Evergreen
Oy Cypress

OBSCURATION

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.
F  Scattered brush not thick enough to conceal troops.

PHYSICAL FEATURES

H0  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.)
L0  Low areas - generally appears dark on photograph becomes swampy during rainy season; often covered with dense growth of brush.
S  Swamp - ground covered with water or boggy most of the time; lower in elevation than L0; 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

<table>
<thead>
<tr>
<th>First Symbol</th>
<th>One Lane</th>
<th>Unlimited</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capacity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>3 m.p.h.</td>
<td>25 tons</td>
</tr>
<tr>
<td>B</td>
<td>23 tons</td>
<td>18 tons</td>
</tr>
<tr>
<td>C</td>
<td>18 tons</td>
<td>15 tons</td>
</tr>
<tr>
<td>D</td>
<td>10 tons</td>
<td>7 tons</td>
</tr>
<tr>
<td>E</td>
<td>8 tons</td>
<td>4 tons</td>
</tr>
<tr>
<td>F</td>
<td></td>
<td>Light vehicles only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Symbol</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vertical Clearance</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>over 14 feet</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>over 13 feet</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>over 12 feet</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>over 11 feet, etc.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Symbol</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Horizontal Clearance</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>over 16 feet</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>over 17 feet</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>over 16 feet</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>over 15 feet, etc.</td>
<td></td>
</tr>
</tbody>
</table>

| Fourth Symbol | Year of Classification |
# Road Classification for Maps of All Scales

<table>
<thead>
<tr>
<th>Class</th>
<th>Label</th>
<th>Structure</th>
<th>Loading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dependable hard-surface heavy duty road.</td>
<td>Concrete, asphaltic concrete bituminous Macadam, H-15 type structures.</td>
<td>Will bear heaviest loads with little maintenance.</td>
</tr>
<tr>
<td>2</td>
<td>Secondary, hard-surface all-weather road.</td>
<td>Surface-treated, oiled gravel, waterbound Macadam, structures generally lighter than maintained.</td>
<td>Will bear fairly heavy military loads in all weather if H-15 but sturdy.</td>
</tr>
<tr>
<td>3</td>
<td>Loose-surface graded, dry-weather road.</td>
<td>Gravel or stone surface stable material, selected sand-clay, etc. Drained and graded.</td>
<td>Will bear light military loads in good weather.</td>
</tr>
<tr>
<td>4</td>
<td>Unimproved road</td>
<td>Graded and drained earth, with very light structure.</td>
<td>Generally unsuitable for military loads.</td>
</tr>
<tr>
<td>4U</td>
<td>Truck road</td>
<td>Woods roads, farm roads, etc. over which a standard gauge vehicle can be driven.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Trail</td>
<td>(Horse trails, feet trails, etc.)</td>
<td></td>
</tr>
</tbody>
</table>

Roads with more than two (2) lanes are indicated by notes 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)
R R Sta  - Railroad Station
Sta  - Country store or gas station
P Sta  - Power Station

SHORE LINE

FMN  - Mean high water; fast land
LNL  - Low water line
LL  - Marsh shore line
M  - Marsh
MW  - Marsh grass in water
Drk  - Dock
Pier  - Pier
S W  - Sea Wall
Bkhd  - Bulkhead
Jet  - Jetty
Dol  - Dolphin
Pile  - Pile
S  - Sand
Mud  - Mud

Ek  - Rock or Rocky
Sty  - Stony
Cone  - Concrete
Wd  - Wood
Blf  - Bluff
Dune  - Dune

BOUNDARIES

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

STREAMS AND PONDS

D  - Largest ditches only
DK  - Small ditch (delete)
IS  - Intermittent stream
PD  - Probable drainage
Cr  - Creek
Ca  - Canal
Cv  - Culvert
Lev  - Levee
Bas  - Basin
F  - Pond
IP  - Intermittent pond

LAKEFRONT

FT  - Fire Tower (give name)
TT  - Transmission Tower
RT  - Radio Tower or mast
Air En  - Airways Enances
Bn  - Non-lighted aid to navigation
Llt  - Lighted aid to navigation
Tk  - Low tank
Tk ele  - 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.

VEGETATION

Gr  - Grass
Sw  - Swamp
Cy Sw  - Cypress Swamp
There are two U.S. Coast & Geodetic Survey triangulation stations identified by the Field Inspection Party, which fall within the limits of this Map Manuscript. These are:

**FLETCHER NECK** 156, 1941
**WOOD ISLAND L.H.,** 1868, 1903, r.1941

Two other U.S. Coast & Geodetic Survey triangulation stations are shown on the Map Manuscript, which were not identified by the Field Inspection Party, but were prickled on the photographs from published descriptions of these stations. They are:

**STAGE ISLAND MONUMENT,** 1941
**FLETCHER NECK COAST GUARD L. O. TOWER,** 1941 (destroyed prior to 1943)

In order to utilize the station **FLETCHER NECK** 156, 1941, which was of doubtful identification on the photographs, a field inspection station was established at a well-defined point near the triangulation station.

In addition, there are ten horizontal control stations just outside the limits of this Map Manuscript. These are:

**OLD ORCHARD STANDPIPE,** 1923, r.1941
**SACO ORTHODOX CHURCH SPIRE,** 1850
**THLITDA,** 1940, U.S.G.S.
**STRATHM ISLAND BARN CUPOLA,** 1850
**FLETCHER NECK WATER TANK,** 1941
**HOYTS NECK 2,** 1928
**CAPE PORPOISE CHURCH SPIRE,** 1941
**REDDEN,** 1941
**GOAT ISLAND L.H.,** 1903, r.1941
**DR. CUMMINGS’ HOUSE,** S. CHIMNEY, 1923, 1941

All of the above horizontal control stations were used for the establishment of photograph centers and secondary control points for this Map Manuscript.

**27 RADIAL PLOT:**

The radial plot was run in accordance with paragraph 16 of the supplemental instructions for Project CS-303-B and CS-303-D, dated August 31, 1943.

Due to the small land area included in this Map Manuscript, it was advisable to run a combined plot for the Map Manuscripts for Surveys No.T-8520 and T-8521.
27 RADIAL PLOT: (cont'd)

This radial plot will be described in detail in the descriptive report for the Map Manuscript for Survey No. T-8529, which will be submitted when the Map Manuscript for Survey No. T-8529 is completed.

28 DETAILING:

The small land area included on this Map Manuscript for Survey No. T-8521 was detailed on the scale 1:20,000 from nine lens photographs of the same scale.

The field inspection data was adequate for the mainland and Basket Island. No field inspection data was furnished for Wood Island, Negro Island, Ram Island, Eagle Island, and Gooseberry Island.

The detailing was accomplished in the usual manner.

Contours were transferred directly to the Map Manuscript from a 1:20,000 scale blue line print mounted on metal of a recent survey made by the U. S. Geological Survey.

29 SUPPLEMENTAL DATA: 

The following previous topographic surveys have been made covering the area of the Map Manuscript for Survey No. T-8521:

<table>
<thead>
<tr>
<th>Survey No.</th>
<th>Date</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-312</td>
<td>1850</td>
<td>1:10,000</td>
</tr>
<tr>
<td>T-759</td>
<td>1859</td>
<td>1:10,000</td>
</tr>
<tr>
<td>T-760</td>
<td>1859</td>
<td>1:10,000</td>
</tr>
<tr>
<td>T-761</td>
<td>1859</td>
<td>1:10,000</td>
</tr>
<tr>
<td>T-1188</td>
<td>1870</td>
<td>1:10,000</td>
</tr>
<tr>
<td>T-1159</td>
<td>1870</td>
<td>1:10,000</td>
</tr>
<tr>
<td>T-1221</td>
<td>1871</td>
<td>1:10,000</td>
</tr>
<tr>
<td>T-1188a</td>
<td>1912-13</td>
<td>1:10,000</td>
</tr>
<tr>
<td>T-1159a</td>
<td>1912-13</td>
<td>1:10,000</td>
</tr>
<tr>
<td>T-1221a</td>
<td>1913</td>
<td>1:10,000</td>
</tr>
</tbody>
</table>

Only selected evidence of these surveys is published in this report (T-8521).

Copies of these surveys were not available to this Compilation Office. See office review for comparison.

30 MEAN HIGH-WATER LINE:

The stage of the tide was computed for all the photographs used in the process of detailing. It was found to be about 3/4 tide.
30 MEAN HIGH-WATER LINE: (cont’d)

The high-water line was delineated from data provided by the Field Inspection Party.

The high-water line for Wood Island, Negro Island, Ram Island, and Gooseberry Island was delineated from stereoscopic examination of the office photographs with the aid of field inspection data of similar areas. No field edit.

The Compilation Office does not agree with the interpretation by the Field Inspection Party of the high-water line at Beach Island as shown on field inspection photograph No. 13707. This has been detailed on the Map Manuscript from stereoscopic examination of the office photographs. The interpretation of the high-water line of Beach Island, as shown by the field inspection data, has been detailed on the discrepancy overlay. Investigated and changed by field edit party.

31 LOW-WATER AND SHOAL LINES:

Rock ledge visible on the photographs and not shown by the field inspection data, was detailed on the Map Manuscript and shown by the rock ledge symbol. Additions made by field edit.

32 DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

Sufficient rocks were radially plotted to insure accuracy in detailing the remaining rocks visible on the office photographs in this area.

33 WHARVES AND SHORE LINE STRUCTURES:

Some Coast Guard docks, a pier, and some fish houses are shown at the inlet of The Pool. A wharf visible on the eastern end of Wood Island was detailed.

Two rock jetties were detailed at the mouth of Biddeford River.

34 LANDMARKS AND AIDS TO NAVIGATION: (see Field Ed. Report)

No data was furnished the Compilation Office concerning landmarks or aids to navigation. See chart letter No. 35.
35 HYDROGRAPHIC CONTROL:

One recoverable topographic station, namely "FEL", 1943, falls within the limits of this map manuscript, and is suitable for partial hydrographic control as long as it remains standing. Form No. 5214 is being submitted for this station. (Back of house)

36 LANDING FIELDS AND AERONAUTICAL AIDS:

No landing fields or aeronautical aids are located within the area covered by survey No. T-8521.

37 DISCREPANCY OVERLAY:

A discrepancy overlay has been prepared to accompany this map manuscript. On it are noted, disagreements in interpretation of detail between the field inspection party and the compilation office. A few general notes are included to aid in the interpretation of the map manuscript. (This overlay has been lost)

38 GEOGRAPHIC NAMES:

The geographic names for this map manuscript were not the subject of a special report by A. J. Wraight as stated in paragraph 18 of the field inspection report, but were compiled from the geographic name overlay of the U. S. Geological Survey 15' Biddeford Quadrangle. These names are all undisputed. A list has been attached to this report.

39 HORIZONTAL ACCURACY:

It is believed that this map manuscript for survey No. T-8521 will meet the requirements for horizontal accuracy for war mapping quadrangles.

40 RECOMMENDATION FOR FUTURE SURVEYS:

The planimetric detail as presented on this map manuscript, is believed to be complete. However, due to a few uncertainties mentioned in this report and indicated on the discrepancy overlay, a final field examination with respect to these points is recommended. See Field edit sheet.
11 JUNCTIONS:

This Map Manuscript is bounded on the North, East and South by the Atlantic Ocean.

To the West, the Map Manuscript for Survey No. T-5520 has not been completed. The detail at this junction has been transferred to Survey No. T-5520 and a satisfactory junction will be made at the time of its completion.

12 REMARKS:

An adequate description of this area has been made in the field inspection report.

13 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Comparison was made with the U. S. Geological Survey 15 minute quadrangle Biddeford, Maine, scale 1:62,500.

Minute comparison was not practicable due to the difference in scale. A visual comparison shows the common detail to be in generally fair agreement.

14 COMPARISON WITH NAUTICAL CHARTS:

A comparison with the U. S. Coast & Geodetic Survey Nautical Chart No. 231, scale 1:20,000, published May 1943, and reissued September 15, 1943, reveals that several small marsh islands in "The Pool", shown on the Chart, are not visible on the 1:20,000 photographs and could not be verified.

Shore line at a point on the north side of Fletcher Neck has receded about 40 meters. A portion of shore line to the west of Biddeford Pool extends outward about 50 meters, as shown on the Map Manuscript and is indicated partially as marsh area whereas, the Chart indicates sand covered at Mean High-Water. Shore line just east of Hill Beach has built up considerably beyond that shown on the Chart, while the western shore line of Hill Beach has receded.

Shore line at the Eastern tip of Wood Island has built up about 30 meters beyond that shown on the Chart.

Numerous ledges and rocks shown on Chart No. 231 are not visible on the nine lens photographs. However, their names and approximate locations have been shown on the discrepancy overlay for future investigation.
Respectfully submitted,
January 6, 1944

Mildred M. Trautman
Air Photo. Observer

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

William H. Vanloon
Pr. Photogrammetric Aid

Compilation of Map Manuscript
Supervised by:

Joseph Steinberg
Asst. Photogrammetric Eng.

and

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

Approved & Forwarded:
January 7, 1944

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

Undisputed

Basket Island
Bayview
Beach Island
Biddeford Pool
Coast Guard Station
Eagle Island
Fletcher Neck
Gooseberry Island

Hill Beach
Negro Island
Ham Island
Saco Bay
Stage Island
The Pool
Washman Rock
Wood Island
Wood Island Harbor
FIELD EDIT REPORT

The field edit of this quadrangle was accomplished by a visual inspection of the various topographical features with the planer's pen being used for cutting in rocks off-shore and checking contours and establishing elevations. One tidal bench mark was located and shown on the compilation and the recovery note is attached to this report. The field edit notes are plotted on the cloth backed copy of the compilation according to the following color scheme:

- Additions: Black Ink
- Deletions: Green Ink
- Drainage: Blue Ink
- Contours: Brown Ink

Roads, buildings and other features were classified according to instructions. There were no bridges large enough to classify.

No discrepancy overlay accompanied the copy of the manuscript, it being reported as lost in the Washington Office.

The compilation is believed to be complete and accurate as corrected by the field edit.

Vertical accuracy tests were run by the field edit party on this quadrangle in accordance with a note on the ogival print of the compilation. Tidal B.M. No. 1 being buried and covered with ice and snow, the accuracy test took off of an elevation established by the U.S.N. on the corner of the Coast Guard Station. This elevation was taken from the tidal bench marks at the entrance to the Pool and was set on the corner of the concrete foundation and noted on the plans for the building. Twenty five planer's pen elevations were established at different points on the sheet and all of them were within the vertical accuracy limits as set forth by the Army War College. Directly east of the St. Martina Church a 20 ft. contour was connected with a forty foot contour and then throughout the forty foot contour's length it was mistakenly designated as a twenty foot contour. The position of the contour was good, being only wrongly designated.

Horizontal accuracy tests are the subject of a special report on Project 303-D. Test traverse #5, from A. E. Fletchers Neck #5C, 1941 to Breden #41 was used to check planimetric positions on the USGS multiplex base sheet. Traverse positions established were used as control on T-8521.
18. Three aids to navigation were located with the plan table and submitted on the attached form 567. Chart No. 93.

Submitted by

L. G. Chambers

L. G. Chambers
Prin. Photo. Aid

Approved and Forwarded

F. L. Gallen
Chief of Party
DIVISION OF CHARTS
SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T- 8521

BIDDEFORD POOL, MAINE 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

Vert Test: See paragraph 48 of Field Edit Report.
Horiz. Test: extending from northern T-8525 across T-8520 to T-8521. When checked against the U.S.G.S. multiplex base used for the test, the required accuracy standard was not met; but when used against the new C.& G S compilation T-8521 was found Previous Surveys to be of the required accuracy.

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- 760 1/10000 1859 T-1188, 1/10000 1870
U.S.G.S. BIDDEFORD, 15' ed 1944 1/62500

Comparison with Nautical Charts Nos.
231 1/20000
1205 1/80000

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:

Numerous rocks and ledges were located by the field edit party, with a note as to their elevations above water at the time observed. This was changed to MLW (EST) during review, and the information placed on the map manuscript. Considerable change & differences of position in Saco Bay area.

(Three rocks that had not been carried on the published quadrangle, were added to the cloth-backed vault copy. LTS)
Feb. 1948

There is nothing to indicate that this map has been applied to charts as of the date of registration. — Feb. 1948 LTS
The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

This review report was compiled from notes made at the time of review. LTB. Feb. 1948

Reviewed 7 April 1944 By Rock B. Collis
under direction of D. H. Benson

Inspected by B. G. Jones 3/48

Examined and approved:

K. T. Adams  
Chief, Div. of Photogrammetry

Chief, Div. of Coastal Surveys

Chief, Topographic Mapping
Nautical Chart's Br.
Div. of Charts.
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January 12, 1944

To: Mr. L. G. Chambers  
U. S. Coast and Geodetic Survey  
P. O. Box 591  
Sanford, Maine

From: The Director  
U. S. Coast and Geodetic Survey

Subject: Field Edit of Quadrangle T-5521

The Geological Survey contours which have been enlarged and transferred to T-5521 were not examined or tested during the field inspection. Therefore, examination of contours in the vicinity of Biddeford Pool shall be made during the field edit. It is thought that this can be accomplished satisfactorily by a line of planetable levels from the tidal benchmark at the entrance to "The Pool." Enough test points shall be established to determine whether the contours are accurate and complete.

With reference to the note on the discrepancy overlay, it will be necessary to obtain the correct position for the 30 foot elevation on Wood Island. This was transferred from a smaller scale rather illegible copy of the Geological Survey sheet and may be out of position.

Previous surveys in this area show a number of ledges and rocks awash close inshore that were not visible on the photographs and have not been compiled. These have been indicated on the discrepancy overlay. In order to make the offshore details as complete as practicable, you will please examine the area at low water and locate additional rocks awash by planetable cuts.
With reference to the note on the discrepancy overlay, you will please examine the mean high water line of Beech Island and indicate whether it should be shown as outlined by the field inspection, or as compiled. The ozalid prints of T-8521 will be forwarded to you January 13, 1944.

(Signed) J. H. Hawley

Acting Director
Between January, 1942 and July, 1944, this Bureau completed 325 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.