

8521

Diag'dl on diag. ch. No. 1205

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photographic TopographicField No. _____ Office No. T-8521

LOCALITY

State MaineGeneral locality Fletcher NeckLocality Biddeford Pool1944

CHIEF OF PARTY

Fred. L. Peacock

LIBRARY & ARCHIVES

DATE March 23, 1948

8521

MEMORANDUM to Mr. B. G. 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.

Deleted

GRF
G. R. Fish

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

Project No. (II):

CS-303-D

Chief of Party:

F. L. Gallen

Chief of Party:

Fred. L. Peacock

Copy filed in Descriptive

~~Report No. T-~~ (VI)

Div. Photogram. Office Files

Completed survey received in office: 7 Jan. 1944

Reported to Nautical Chart Section:

Reviewed: 4/7/44

Applied to chart No.

Date:

Redrafting Completed: 22 April, 1944

Registered: *marsh*
~~13 Feb.~~ 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): ~~FLETCHER NECK, 156, 1941~~ Confidential
Wood Is. Light HouseLat. ~~43° 26' 55.921" 1725.8m~~ Long. ~~70° 20' 30.066" 676.0m~~ Adjusted
43° 27' 24".12 744.4m 70° 19' 46".164 1032.9m ~~Unadjusted~~

State Plane Coordinates (VI): Maine, West zone

X = 456,765.33 ft
(not computed)

Y = 227,240.58 ft

Military Grid Zone (VI)

Zone A

Special Harbor Defense Grid every 1000 yds.
Portsmouth - Portland area

PHOTOGRAPHS (III)

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

Tide from (III); Predicted tables of tides for reference station Portland, Maine,
with corrections for Wood Island Harbor, Maine
Mean Range: 8.7' Spring Range: 9.9'

Camera: (Kind or source) U. S. Coast & Geodetic Survey nine lens camera (focal length 8 $\frac{1}{2}$ ").

Field Inspection by: L. LeForrest Miller date: Summer & Fall
1943

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

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

Same as date of photographs

| | |
|---|-----------------------|
| Projection and Grids ruled by (III) Washington Office | date: Unknown |
| " " " checked by: Washington Office | date: Unknown |
| Control plotted by: John P. Kubaseo | date: October 1, 1943 |
| Control checked by: Henry P. Eichert | date: October 2, 1943 |

Radial Plot by: William H. VanLoon & John P. Kubasoo date: October 13 to
October 16, 1943

Detailed by: Mildred M. Trautman date: December 2, 1943 to
January 5, 1944

Reviewed in compilation office by: William H. VanLoon date: January 3 to
January 5, 1944

Elevations on Field Edit Sheet L. G. Chambers
checked by: date: Jan., 1944

STATISTICS (III)

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 blueline 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.

Made during
Field Edit
on this quadrangle.

- (c) Field inspection of the aerial photographs for clarification of details.

COMPILATION 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.*

INSPECTION
FIELD ~~EDIT~~ REPORT
QUADRANGLE T-8521
Project CS-303-D
F. L. Gallen, Chief of Party

2. COMPLETENESS OF FIELD ~~EDIT~~ ^{INSPECTION}:

The field ~~edit~~ ^{inspection} 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.

6. See report for T-8505.

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 ~~edit~~ ^{inspection} was done on U S C & G S 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 quad. See special report
~~No accuracy tests were made for this area. in Division of Photogrammetry files.~~
(See field edit report)

Approved and forwarded by:

F. L. Gallen

F. L. Gallen
Chief of Party

Submitted by:

L. LeForrest Miller
Jr. Topo. Engr.

L. Le Forrest Miller

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.) |
| LO | Low areas - generally appears dark on photograph because 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.

BRIDGE AND TUNNEL CLASSIFICATION

| <u>First Symbol</u> | <u>One Lane</u> | <u>Unlimited</u> |
|---------------------|---------------------|------------------|
| Capacity | 5 Tons | |
| 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 note along road, e. g. 3 LANES. Change in lanes shown by tick at point of change. Main roads have two lanes unless otherwise marked.

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

BUILDINGS

b - barn
Bldg - Building
Bo Ho - Boat House
Ch - Church (give name)
Ct Ho - Court House (give name)
P.O. - Post Office (give name)
Sch - School (give name)
Hos - Hospital (give name)
RR Sta - Railroad Station
Sto - Country store or gas station
P Sta - Power Station

BOUNDARIES

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

LANDMARKS

FT - Fire Tower (give name)
TT - Transmission Tower
RT - Radio Tower or mast
Air Bn - Airway Beacon
Bn - Non-lighted aid to navigation
Lb - Lighted aid to navigation
Tn - 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

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

Rk - Rock or Rocky
Sty - Stony
Cone - 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:

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 (Confidential)
✓ 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 pricked 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
TTL4TDA, 1940, U. S. G. S.
STRATHAM 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-8520, which will be submitted when the Map Manuscript for Survey No. T-8520 is completed. 8523

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:

| Survey No. | Date | Scale |
|------------|---------|----------|
| T-312 | 1850 | 1:10,000 |
| T-759 | 1859 | 1:10,000 |
| ✓ T-760 | 1859 | 1:10,000 |
| T-761 | 1859 | 1:10,000 |
| ✓ T-1188 | 1870 | 1:10,000 |
| T-1159 | 1870 | 1:10,000 |
| T-1224 | 1871 | 1:10,000 |
| ✓ T-1188a | 1912-13 | 1:10,000 |
| T-1159a c | 1912-13 | 1:10,000 |
| T-1224a | 1913 | 1:10,000 |

Only sketches of variations in elevation of this survey (T-8521)

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

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 ^{Saco} Biddeford River.

34 LANDMARKS AND AIDS TO NAVIGATION: *(see Field Edit Report)*

No data was furnished the Compilation Office concerning landmarks or aids to navigation. See chart letter *No. 95*

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. 524 is being submitted for this station. (Peak 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. Wright 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.

41 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-8520 has not been completed. The detail at this junction has been transferred to Survey No. T-8520 and a satisfactory junction will be made at the time of its completion.

42 REMARKS:

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

43 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.

44 COMPARISON WITH NAUTICAL CHARTS:

See statement on procedure of part of this report.
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
Mildred M. Trautman
Air Photo. Observer

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

William H. VanLoon
William H. VanLoon
Pr. Photogrammetric Aid

Compilation of Map Manuscript
Supervised by:

Joseph Steinberg
Joseph Steinberg
Asst. Photogrammetric Eng.

and

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

Approved & Forwarded:
January 7, 1944

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

LIST OF GEOGRAPHIC NAMES

Undisputed

| | |
|--------------------------------|---------------------------------|
| ✓ Basket Island | ✓ Hill Beach |
| ✓ Bayview | ✓ Negro Island |
| ✓ Beach Island | ✓ Ram Island |
| ✓ Biddeford Pool | ✓ Saco Bay |
| Coast Guard Station - ? (new?) | ✓ Stage Island |
| ✓ Eagle Island | ✓ The Pool |
| ✓ Fletcher Neck | ✓ Washman Rock |
| ✓ Gooseberry Island | ✓ Wood Island |
| | ✓ Wood Island Harbor |

FIELD EDIT REPORT
to accompany
Quadrangle T-8521
Project 303-D

46. The field edit of this quadrangle was accomplished by a visual inspection of the various topographical features with the planetable being used for cutting in rocks off-shore and checking contours and establishing elevations. *T.B.M. 1*
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.

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

48. Vertical accuracy tests were run by the field edit party on this quadrangle in accordance with a note on the ozalid 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.E. 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 planetable elevations were established at different points on the sheet and all of them were within the vertical accuracy limits as set fourth by the Army War College. Directly east of the St. Martins 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 Δ Fletchers Neck #156, 1941 to Δ Redden 1941 was used to check planimetric positions on the USGS multiplex base sheet. Traverse positions established were used as control on T-8521.

*This test was made
prior to compilation. See
statement on procedures
at front of this report.*

13. Three aids to navigation were located with the planetable and submitted on ~~the attached~~ form 567. Chart letter # *No. 95*

Half Tide Rock Bn (pl. table)

Philip " " " "

Washmans " " " "

Submitted by

L. G. Chambers per J. H. 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- 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

Vertical 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 to be of the required 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- 760 | 1/10000 | 1859 | T-1188, | 1/10000 | 1870 |
| U.S.G.S. | BIDDEFORD, | 15' | ed 1944. | 1/62500 | |

| | | |
|---|------|---------|
| <u>Comparison with Nautical Charts Nos.</u> | 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^{level} 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. LTS. Feb. 1948

Reviewed 7 April, 1944 By Robert B. Collier per LTS.
under direction of D. H. Benson

Inspected by B. G. Jones *B.G. Jones 3/48*

Examined and approved:

~~Chief, xx Surveys xx Bureau xx~~

J. E. Sweeney

Chief, ~~Topography xx Division xx~~
Nautical Charts Br.
Div. of Charts.

K. T. Adams

Chief, Div. of ~~Charts xx~~
Photogrammetry

C. K. Green

Chief, Div. of Coastal
Surveys

| | Remarks | Decisions |
|----|---------|--------------------------------------|
| 1 | | |
| 2 | 1 | USGB |
| 3 | | |
| 4 | | |
| 5 | | Road Maps |
| 6 | | |
| 7 | | All names on this ques. on 434703 |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | | U.S.G.B. |
| 15 | | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | U.S.G.B. |
| 21 | | |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | |
| 26 | | |
| 27 | | |

GEOGRAPHIC NAMES

Survey No. T-8521

BIDDEFORD POOL quadrangle

Name on Survey

| | A | B | C | D | E | F | G | H | K | |
|---------------------------|--------------------|---|---|---|---|---|---|---|---|----|
| Atlantic Ocean | ✓ | | | | | | | | | 1 |
| Maine | ✓ | | | | | | | | | 2 |
| Towns of Biddeford, Saco | ✓ | | | | | | | | | 3 |
| York County | ✓ | | | | | | | | | 4 |
| State No. 9, 2008, 9/2008 | | | | | | | | | | 5 |
| | | | | | | | | | | 6 |
| Fletcher Neck | ✓ | | | | | | | | | 7 |
| Libbyshears | ✓(reef) | | | | | | | | | 8 |
| Beach Island | ✓ | | | | | | | | | 9 |
| Washman Rock | ✓ | | | | | | | | | 10 |
| Dansbury Reef | ✓ | | | | | | | | | 11 |
| Biddeford Pool | ✓(village) | | | | | | | | | 12 |
| The Pool | ✓ | | | | | | | | | 13 |
| Wood Island Harbor | ✓ | | | | | | | | | 14 |
| Halfway Rock | ✓ | | | | | | | | | 15 |
| Philip Rock | ✓ | | | | | | | | | 16 |
| Gooseberry Island | ✓ | | | | | | | | | 17 |
| Wood Island | ✓ | | | | | | | | | 18 |
| Wood Island Light | ✓ | | | | | | | | | 19 |
| Negro Island | ✓ | | | | | | | | | 20 |
| Stage Island | ✓ | | | | | | | | | 20 |
| St. John's Island | ✓ | | | | | | | | | 21 |
| Basket Island | ✓ | | | | | | | | | 22 |
| Hill Beach | ✓(see manuscript) | | | | | | | | | 23 |
| Sharps Rocks | ✓(at end of Jetty) | | | | | | | | | 24 |
| Ram Island | ✓ | | | | | | | | | 25 |
| Eagle Island | ✓ | | | | | | | | | 26 |
| Saco Bay | ✓ | | | | | | | | | 27 |

Names underlined in red approved
by L. H. C. on 4/19/49

826-ROR

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-8521

The Geological Survey contours which have been enlarged and transferred to T-8521 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 outs. ✓

Mr. L. G. Chambers

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January 12, 1944

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

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.