5966

Diag'd. on diag. ch. No. 1204-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Air Photographic

Field No. Office No. T-5966

LOCALITY

State Maine

General locality Coast of Maine

Locality Cathance River, Muddy River, Androscoggin River, and Merrymeeting Bay

1943

CHIEF OF PARTY

Fred. L. Peacock

LIBRARY & ARCHIVES

DATE Mar 24-1948

のののののの

B-1870-1 (I)

7- 5966

Quadrangle (II):

Project No. (II): CS-272

Bath (15') Maine

Part of Sub-Project No. CS-272-B

Field Office:

Chief of Party:

U. S. C. & G. S. Bath, Maine

Lieut. Henry O. Fortin

Compilation Office:

Chief of Party:

Air Photographic Party No. 2 Baltimore, Maryland Instructions dated (II III):

Fred. L. Peacock Copy filed in Descriptive Div. Photogram Office Files

January 12, 1942 and

April 1; 1942

Completed survey received in office: 25 Sept. 1943

Reported to Nautical Chart Section:

Reviewed: 24 Sept. 1945 Applied to chart No. 3/4 Date: 9 Sept. 1946

Redrafting Completed: 26 Nov 1947

Registered: g Jub 1948

Published: Shoreline (voult capt)

Published Scale: 1:10000

Compilation Scale: 1:10.000

Scale Factor (III):

Geographic Datum (III): North American 1927 Datum Plane (III): Mean Sea Level

Reference Station (III): SPRAGUE, 1855, r.1913, 1933, r.1942

Lato: 43° 58' 31.314" 966.5m Longo: 69° 54' 04.678" 104.3m Adjusted

State Plane Coordinates (VI):

X = 569,858,15

Y = 4/6, 367.35

Military Grid Zone (VI)

PHOTOGRAPHS (III)

Number	<u>Date</u>	Time	<u>Scale</u>	Stage of Tide			
*6752	10/17/41	_12:06p.m.	1:10,000	3.7' above M. L. W.			
*6753	10/17/41	12:07p.m.	1:10,000	3.7' above M. L. W.			
*6722	10/17/41	11:06a.m.	1:10,000	4.4' above M. L. W.			
*6723	10/17/41	11:07a.m.	1:10,000	4.4' above M. L. W.			
*672Ĺ	10/17/41	-11:08a.m.	1:10,000	4.4' above M. L. W.			
*6725	10/17/41	11:09a.m.	1:10,000	4.4' above M. L. W.			
**6776	10/17/41	12:28p.m.	1:10,000	3.9' above M. L. W.			
* *6777	10/17/41	12:29p.m.	1:10,000				
**6778	10/17/41	12:29p.m.	1:10,000				
**6779 ·	10/17/41	-12:30p.m.	1:10,000	3.9' above M. L. W.			
**6780	10/17/41	12:31p.m.	1:10,000	3.9' above M. L. W.			
, Tide from	(III): Predicted	tables, referen	nce station I	Portland, Maine with time			
correction to *Pleasant Point, Androscoggin River, Me., and **Bowdoinham, Cathance River,							
Mean Range: *Pleasant Point - 4.7' Spring Range: *Pleasant Point-5.3' Maine							
**Bowdoinham - 5.5' **Bowdoinham - 6.3'							
Camera: (Kind or source) U. S. Coast & Geodetic Survey nine-lens camera (focal							
\$		_	All negative	es are on file in the Washington			
		Office.		•			
Field Insp	pection by: Lieu	at. Henry O. For	rtin	date: Fall, 1942			

Field Edit by:

4,

date:

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

October 17, 1941

Projection and Grids ruled by (III) John C. O'Neill date: February 18, 1943

" " checked by: John C. O'Neill date: February 18, 1943

Control plotted by: I. Scott Poehlman date: February 23 to
February 24, 1943

Control checked by: Donald M. Brant date: June 4, 1943

Radial Plot by: Donald M. Brant & Abraham L. Goncharsky date: June, 1943

Detailed by: Mary R. Moore (Shoreline-rough draft) date: June to Sept., 1943

Reviewed in compilation office by: Harry R. Rudolph date: Aug. to Sept., 1943

Elevations on Field Edit Sheet checked by:

date:

STATISTICS (III)

Land Area (Sq. Statute Miles): None

Shoreline (More than 200 meters to opposite shore): 7-3/4 Statute Miles

Shoreline (Less than 200 meters to opposite shore): 14.0 Statute Miles measured

along centerline

Number of Recoverable Topographic Stations established: 7 by radial intersection

Tumber of Temporary Hydrographic Stations located by radial plot: 41

Leveling (to control contours) - miles; none

Roman numberals 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:

26 CONTROL:

The control plotted and control transferred from adjoining Map Drawings consists of seventeen (17) U. S. Coast & Geodetic Survey triangulation stations, six (6) U. S. Engineers triangulation stations, and thirteen (13) U. S. Geological Survey traverse stations. The triangulation and traverse stations have been shown by the conventional triangulation symbol.

The following control stations are within the detail limits of Map Drawing, Survey No. T-5966:

> Eight (8) U. S. Coast & Geodetic Survey Triangulation Stations

**SEDGELY, 1871, no recovery in 1942 *POPLAR, 1871, no recovery in 1942

*SPRAGUE, 1855, r.1913, 1933, r.1942

*CAMP, 1871, no recovery in 1942

*ARARAT, 1933, r.1942

*MT. ARARAT FIRE LOOKOUT TOWER, 1933, r.1942

*TATE, 1854, (not covered by photography) 1871, (no recovery in 1942) ► V*FRY,

Five (5) U. S. Geological Survey Traverse Stations:

*2039+, 1940

*2035+, 1940

*2028 same as 1842, 1940

*1852, 1940

*1876, 1940, r.1942

The following control stations fall within the extended northern limits of Map Drawing, Survey No. T-5966:

Two (2) U.S.Coast & Geodetic Survey Triangulation Stations: ****BOWDINHAM, WHITE SPIRE, 1860, partial recovery in 1942 (Old foundation recovered)

**BOWDINHAM, BROWN SPIRE, 1860, r.1942

One (1) U. S. Geological Survey Traverse Station: *TT61BT, 1940, same as 2086, 1941, r.1942

The following control stations fall just outside the detail limits of Map Drawing, Survey No. T-5966, in addition to those previously listed within the extended Northern limit:

Seven (7) U.S. Coast & Geodetic Survey Triangulation Stations:

**SENTER, 1871, no recovery in 1942

****HOUSE CHIMNEY IN CENTER, 1860, (Chimney destroyed) partial recovery in 1942. (Foundation of chimney found)

**BRICK, 1871, recovery in 1942 believed to be incorrect.

**BUCKNER, 1860, 1933, r.1942

**HUNTER, 1860, r.1942 **BLUFF, 1871, no recovery in 1942 **ANT, 1871, no recovery in 1942

26 CONTROL: (cont'd)

```
Six (6) U. S. Engineers Triangulation Stations:
 **KELLEY, r.1962
 **CENTER, 1940, r.1942
 **KENNEY, 1940, r.1942
 **ANDROS, 1940, r.1942
 **MAIN,
           1940, r.1942
 **ALDERS, r.1942
 Seven (7) U. S. Geological Traverse Stations:
 *1884, 1940, r.1942
 **1887, 1940, r.1942
-*TT59BT,1940, same as 2043
 *TT60BT,1940, same as 2063-A, 1941, r.1942
*2073+,r.1942
· *2075+, 1941, r.1942
1941, r.1942, r.1942
```

*The positions of these control stations were plotted from geographic coordinates on the Map Drawing and have been shown with full line black acid ink triangles.

**The positions of these control stations were plotted on adjoining Map Drawings from geographic coordinates and transferred to Map Drawing, Survey No. T-5966. These stations were shown with full line red acid ink triangles.

***The position of this control station was plotted on Map Drawing, Survey No. T-5966 from geographic coordinates and has been shown with a dashed line black acid ink triangle.

****The position of this control station was plotted on adjoining Map Drawing, Survey No. T-5975 and transferred to Map Drawing, Survey No. T-5966 and has been shown with a dashed-line red acid ink triangle.

The latter two notations apply to control stations which have been only partially recovered because the original objects which were the stations were destroyed and the approximate locations of old foundations were identified and recommended by the Field Inspection Party to be used with caution in the radial plot.

27 RADIAL PLOT:

N.B.: Refer to report on the combined radial plot for the areas of Surveys Nos. T-5966 and T-5967, which has been submitted as an appendix to the Descriptive Report for Map Drawing, Survey No. T-5967.

28 DETAILING:

The shoreline and immediate adjacent culture have been detailed on the Map Drawing in accordance with the Director's letters dated January 12, 1942, and April 1, 1942; pertaining to Project No. CS-272. The area of Survey No. T-5966 is a part of sub-Project No. CS-272-B.

The number of photographs was sufficient for detailing the shoreline and immediate adjacent culture, and such detail has been shown with the conventional topographic symbols, recommended by the Washington Office. Where it was necessary to deviate from the conventional symbols, descriptive notes were shown on the Map Drawing or Overlay Sheet.

The Field Inspection Party did not submit any data to assist the compiler in identifying bluffs along the shoreline. Therefore, they were detailed according to stereoscopic examination of the office photographs. Since their character, whether rock or soil, could not be determined satisfactorily by stereoscopy, the bluffs were shown with a dirt bluff symbol.

A few houses along the shoreline were not shown on the Map Drawing because they could not be clearly identified on any of the photographs, due to vegetation, and stereoscopic examination did not definitely reveal their location.

The shoreline and interior culture of Freyer Island was detailed directly from the Field Inspection photograph.

No classification of roads adjacent to the shoreline was submitted by the Field Inspection Party. Therefore, the roads shown on the Map Drawing have been classified by this compilation office and such classification may be incorrect. Future investigation is recommended. There were a few roads which could not be detailed and shown on the Map Drawing because their location on the photographs was generally obscured by vegetation.

The general character of the shoreline shown on the Map Drawing is marshy, except in the vicinity of the town of Bowdoinham in which the shoreline (Mean High-Water) consists mainly of firm ground. There are also large grass-in-water areas shown on the Map Drawing, which are off-shore from the Mean High-Water Line. There are also a few islets off-shore from the Mean High-Water Line.

The extent to which the islets bare at Mean High-Water has been shown by notes on the Overlay Sheet.

30 MEAN HIGH-WATER LINE:

The Mean High-Water Line (firm ground) has been shown by a full heavy-weight black acid ink line, the center of which should be taken as the true position. The limits of marsh areas, bordering the Mean

30 MEAN HIGH-WATER LINE: (cont'd)

High-Water Line, have been shown with a full light-weight black acid ink line, wherever such limits were clearly definable on the photographs. However, where these limits were not clearly definable, and where a gradual change from marsh to grass-in-water was apparent, the full light-weight black acid ink line was omitted and these areas were symbolized in accordance with field memorandum No. 1 (1938).

31 LOW-WATER AND SHOAL LINES:

The approximate limits of grass-in-water, areas, bordering the Mean High-Water Line (firm ground) have been detailed on the Map Drawing in accordance with the Field Inspection data, and the approximate limits have been shown with the conventional symbol. These approximate limits which are for the use of hydrographic parties only, should not be accepted as the Low-Water Line.

32 DETAILS OFFSHORE FROM HIGH-WATER LINE:

Grass-in-water areas, a stone abutment, islets, etc., offshore from the Mean High-Water Line, have been shown in accordance with the Field Inspection data. The area known as Merrymeeting Bay shown on the Map Drawing, consists mainly of grass-in-water.

Other discussion of offshore detail appears in Paragraph No. 28.

33 WHARVES AND SHORELINE STRUCTURES:

A wharf, bridges, cat-walks, etc., have been shown on the Map Drawing in accordance with the Field Inspection data. Descriptive notes have been shown on the Overlay Sheet or the Map Drawing, calling attention to such structures.

34 LANDMARKS AND AIDS TO NAVIGATION:

There were neither landmarks nor aids to navigation recommended by the Field Inspection Party for the area of Survey No. T-5966.

35 HYDROGRAPHIC CONTROL:

The positions of seven (7) recoverable topographic stations (two of which are also bench marks) have been radial plotted on the Map Drawing. They have been shown with purple ink circles on the glossy side, and with $2\frac{1}{2}$ mm full-line black acid ink circles on the dull side. The two bench marks have been shown with a black acid ink "X", inside $2\frac{1}{2}$ mm black acid ink circles.

b' trop / TENTA MARKET BOTT TABLE OF

High-Water Line, Maye been shown with a full light-weight black and that line lide, where reich limits were clearly delinable on the prose-graphs. Moveyor, where there limits reje not clearly delinable, and where a cradual charge from march to grass-in-water was apparent, the toll light-weight black and ink line was contrad and thane areas were sympolized in secondagos with field compression for (1978).

The positions & numbers of these 41 stations nave been placed on the vault copy of lime of registration. The descriptive note for each station is on the map manuscript.

aucoriance with the field inspection date, and the approximate limits have been glown with the conventional symbol. These approximate limits which are for the ave of hydregraphic perties only, should not be accepted at the low-water line.

32 WETATIS OFFSHORE PROM RICH-MATCH CARS:

Grass-in-water areas, a stone abutment, islate, etc., offence orom the Mean "high-"ater line, have been about it a accordance with the Field inaccotion date. It area known as Merrymaeting Bay shown on the fee Gravita, consists mainly of grass-to-vater.

Ourse discussion of off short detail of some in larger the St. 28.

35 WHARVED AND ENDREALING ST. WORLDAYS.

A wharf, bridge, cet-walks, etc., have peer shows on the lab brawing in eccordance with the fleid in section data. Recorpplies notes have been shown on the Granley brest or the Map Drawing, calling attention to such structures.

-MOIRAGEVAN CO ESTA SWA BENESHIAD ALE

informment moitsgiven of alie non salment med rentrem enem enemle.

: JOETHOC DIRECTION CONTROL:

The positions of seven (7) recoverable topographic stations (two of which are also being marks) never been radied plotted on the (apprending, they have been shown with purule ink circles on the closey side, and when Samm, full-line older and the circles of the dull side. The two bench marks have been shown with a black sold ink circles.

35 HYDROGRAPHIC CONTROL: (cont'd)

The numbers or names, and descriptions of the recoverable topographic stations have been shown on the Overlay Sheet. The note "Recoverable topographic station" has also been shown on the Overlay Sheet. The names and elevations above Mean Low-Water of the bench marks, if known, have been shown on the Map Brawing, in conjunction with the notation "Recoverable topographic station".

The positions of forty-one (41) temporary hydrographic stations have been radial plotted and they have been shown with purple or green ink circles on the glossy side of the Map Drawing, indicating relatively strong and weak positions respectively. They have been shown on the dull side of the Map Drawing with 2½mm black acid ink circles. The descriptions of the temporary hydrographic stations have been shown on the Overlay Sheet.

The descriptions, sketches, and scaled geographic positions of the following seven (7) recoverable topographic stations have been submitted on Form No. 524:

Seven (7) Recoverable Topographic Stations:

1982, Unmarked station site, at juniper patch on the Southwest corner of old bridge head at east side of channel, near North end of Freyer Island.

2023, Northeast gable of large grey bark near square white house on hilltop, on West bank of river, and just East

of State Highway No. 24.

2033, Unmarked station site, top of high part of grey rock ledge North of brush patch. Ledge is about 250 meters Northeast of Pleasant Point on the West side of the bay.

2041, Tall brick stack on North bank of river and just before crossing bridge on State Highway No. 24 going towards East Bowdoinham.

2056, Signal Tower No. 359, just North of head of small bight, and on the East side of the Maine Central Railroad line running into Bowdoinham.

*Tidal Bench Mark, No.1, 1871, elevation 8.29' above mean low-

Bench Mark (U.S.G.S.)

*Elevation is based on 41 Low-Waters August 16 to September 6, 1871.

36 GEOGRAPHIC NAMES:

A special report has been submitted to the Washington Office by Lieut. Comdr. Henry O. Fortin on the investigation of geographic names in the area between Latitudes 43° 27.8' and 43° 50', and Longitudes 69° 30' and 70° 22.4'. The report includes part of the area of Map Drawing, Survey No. T-5966.

A list of geographic names is submitted herein.

(Strano) : TOSTRON JUNEAU OROXI

The mumbers of names, and insuring and the recoverable conrapels stations have been shows on the Grantay Apart. Insurance Recoverable topographic stations has also been shows on the bench cheet. The manes and elevations shows on the whole, in continuotion

Review Report says: "This not done, as sheet 7-5965 is now inactive."

"T5965 has not been compiled"

- over the last section of the sect

The descriptions, skercher, and scaled respection positions of the following seven (7) resolverable topographic stations have been submitted on Form No. 501:

Seven (7) Terroverable tomographic Continues
1992, Ungwied station eite, st Jumiper paten on the Journment
corner of old bridge needing east side of chancel, near

North end of Treyer Island. 2023, Northeast gaple of large grey bank near square white nears on militor, on dest bank of river, and just had

of State Mighway 10. 20.
2053, Unparked station site, top of high park of grey rock ledge worth of brush patch. Ledge is about 250 matens whetheast of Pleasant Teint on the West aids of the bay

Northeast of Fleatant Teint on the West aids of the ber. 2041, Tail oriok stack on orth cank of river and just before crossing criege on State Mighray No. 2; going towards

Sest Sowdelman. 2050, Signal lower No. 350, inst Worth of mead of small binit, and on the mast side of the latte central dailroad line

running into bowdelmhan.
*!idal lench Mark, Mo.1, 1871, elevation 5.29! above mean low-

Femal Mark (V. J. M.S.)

36 GARGHARIEC MARES:

.Jeens velievo en.

A special report has been enthinted to the resington office by Lieut. Comm. Survey Q. Tortin on the investigation of geographic names in the area between Dutiveder 13° 27.8% and 18° 70% and bengiveder 6° 30 and 70° 42.4%. The report includes part of the area of day brawing, ourse wo. 1-756.

37 JUNCTIONS:

Junctions of shoreline and immediate adjacent culture were made with Map Drawings, Surveys Nos. T-5975 and T-5967, which are East and South, respectively, of Map Drawing, Survey No. T-5966. The junctions are in excellent agreement.

The detail of the planimetry on Map Drawing, Survey No. T-5965, which is to the North of Map Drawing, Survey No. T-5966, has not been started and no junction was possible at this time.

There is no contemporary survey to the West of Map Drawing, Survey No. T-5966.

39 RECOMMENDATIONS FOR FUTURE SURVEYS:

The planimetry shown on the Map Drawing is believed to be complete in all details of importance for charting, and no additional surveys are recommended.

It is believed that the probable error in the positions of radial points and well-defined objects along the shoreline is not greater than 1.0mm.

43 BRIDGES OVER NAVIGABLE WATERS:

Eight (8) bridges have been detailed and shown on the Map Drawing and all data, generally required by the Washington Office as to vertical clearances, horizontal clearances, types, and load limits, as submitted by the Field Inspection Party of 1942, have been shown by notes on the Map Drawing. See remarks in Review Report.

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Bath Quadrangle, (15') Maine, U.S.G.S. Scale 1:62,500; edition 1894; reprinted 1940.

Because of the difference in scale between the Map Drawing and the above mentioned quadrangle, planimetric detail could not be readily compared. In general, however, planimetry common to both, is in fair agreement, except for the following:

The shoreline of the Cathance River has changed considerably.

The "Muddy River" has widened.

At approximately Latitude 43° 56' 23" and Longitude 69° 53' 50", a bridge leading to Freyer Island from the mainland, as shown on the quadrangle, has not been shown on the Map Drawing. However, the remains of

14 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES: (cont'd)

one stone abutment, as detailed and shown on the Map Drawing, partially identifies the position of the bridge which formerly existed.

At approximately Latitude 43° 56' 35", and Longitude 69° 53' 00" an island has been shown on the Map Drawing which does not appear on the quadrangle.

45 COMPARISON WITH NAUTICAL CHARTS:

Chart No. 314; scale 1:40,000; published February, 1935; reissued July, 1938; corrected to March 23, 1943.

Planimetric detail could not be readily compared because of scale differences. However, the planimetry of two small areas whose positions are approximately Latitude 43° 58' 20" and Longitude 69° 52' 15", and Latitude 43° 57' 05" and Longitude 69° 52' 05" have been detailed and shown on the Map Drawing. These two small areas do not appear on Chart No. 314. Other planimetry common to both is in fair agreement.

Respectfully submitted, September 23, 1943

Mary R. Moore Photogrammetric Aid

Compilation and Descriptive Report Reviewed by:

Harry R. Rudolph

Sr. Photogrammetric Aid

Supervised by:

Walter E. Schmidt

Asst. Photogrammetric Eng.

Approved & Forwarded: September 24, 1943

Air Photographic Party No. 2

REVIEW REPORT Shoreline Map T-5966 Cathance River & Vic., Me.

Paragraph numbers not used are adequately covered in the Descriptive Report.

26. CONTROL Eight of the sixteen triangulation stations listed in the Descriptive Report fall within the delineated area of T-5966. They have been check-marked on that listing.

27. RADIAL PLOT The radial plot is within the limits of required accuracy, though the removal of the inked radial points on the map manuscript, and the scale difference between the photographs and the base map made it difficult to make a good test.

28. DETAILING Field inspection was scanty; and delineation was sometimes faulty.

35. HYDROGRAPHIC & TOPOGRAPHIC CONTROL (See also page 8 of the Descriptive Report) Thirty-six additional temporary signal sites were picked and located on the photographs and mauscript by personnel of the Washington Office at the request of the hydrographic survey party.

44. COMPARISON WITH PREVIOUS HYDROGRAPHIC & TOPOGRAPHIC SURVEYS

H-6960 1944 T1214 (871) 1:10000

Н-6961 1944

U.S.G.S. Bath 1941 (ed. 1945) 1:62,500 U.S.G.S. Gardiner 1941 (ed. 1943) 1:62,500

All the common features on the above surveys are superseded by this survey (T-5966) in their common areas.

This map has not been applied to Nautical Charts as of the date of this report.

This report has been compiled from notes made by the reviewer. L.T.S.

Reviewed by:

Reviewed under direction of:

H. W. Thune 24 September 1945

R. M. Berry Chief, Review Section

Approved by:

Technical Assistant to the Chief, Div. of Photogrammetry

Div. of Photogrammetry

Chief, Nautical Chart Division of Charts /

Chief, Division of Coastal Surveys

LIST OF GEOGRAPHIC NAMES

Undisputed

- Androscoggin River
- . Bowdoinham (town)
- Cathance River
- . Freyer Island
- . Muddy River
- . Merrymeeting Bay
- · Pleasant Point
- . Maine Central
- · State No. 24

Names proceeded by are approved. L. Heck 9/24/47

GEOGRAPHIC NAMES

NAUTICAL CHARTS BRANCH

SURVEY NO. 7 5966

Record of Application to Charts

DATE	CHART CARTOGRAPHER		REMARKS			
9/9/46	314	Everett-Walley	Before After Verification and Review			
			Completely applied to Reconstructed 314			
		,	Before After Verification and Review			
,			Before After Verification and Review			
		, .	Before After Verification and Review			
			Before After Verification and Review			
	•		Before After Verification and Review			
			Before After Verification and Review			
			Before After Verification and Review			
			Before After Verification and Review			
			Before After Verification and Review			
						
			· · · · · · · · · · · · · · · · · · ·			

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.