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Form 504	
U. S. COAST AND GEO	DETIC SURVEY
DEPARTMENT OF CO	MMERCE
DESCRIPTIVE	REPOR'
Type of Survey SHOFEI	JINE
	T_5076

Field No. Ph-51 (49) Office No. T-5977

LOCALITY

State MAINE

General locality KENNEBEC RIVER

Locality FROM ABAGADASSET POINT TO TWO MILES

NORTH OF RICHMOND

194 9

CHIEF OF PARTY
E.R.McCarthy, Chief of Field Party
H.A.Paton, Baltimore Photogrammetric Office

LIBRARY & ARCHIVES

DATE June 16 - 1953

B-1870-1 (1):

DATA RECORD

T - 5976

T - 5977

Project No. (II): Ph 51(49) Quadrangle Name (IV):

Field Office (II):

Washington, N.C.

Photogrammetric Office (III): Baltimore, Md.

Instructions dated (II) (III):

7 July 1949 (Field) 6 Dec. 1949 (office) Chief of Party:

E.R.McCarthy

Officer-in-Charge:

Hubert A. Paton

Copy filed in Division of Photogrammetry (IV)

Office Files

Method of Compilation (III):

Multiplex (Bausch and Lomb)

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting instrument Scale (III): 110,000

Scale Factor (III): 1.000

Date received in Washington Office (IV): 3^{-2} 3-50 Date reported to Nautical Chart Branch (IV): 3^{-30} - 5^{0}

Applied to Chart No. 3/4(7-5974) Date: 7/11/5/

Date registered (IV): /2-24-52

Publication Scale (IV):

Publication date (IV):

MHW

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low-water

Reference Station (III): HOUDLETTE, 1868

Lat.: 44° 05' 01.805"

15.263 Long.:

Adjusted OFFICE VERY

Plane Coordinates (IV):

State:

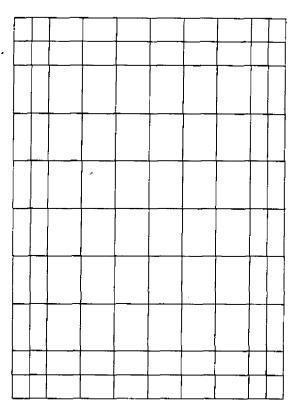
Maine

Zone: West

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

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



Areas contoured by various personnel (Show name within area) (II) (III)

DATA RECORD

7/11/49 8/26/49 James A. Clear Field Inspection by (II): Date: Henry P. Eichert Robert A. Horn Harry Moore Planetable contouring by (il): Date: None Completion Surveys by (II): Date: Mean High Water Location (III) (State date and method of location): May 10, 1949 (date of photography) 12-2-49 T.L.J. Projection and Grids ruled by (IV): Date: 12-2-49 T.L.J. Projection and Grids checked by (IV): Date: 1-50 Control plotted by (III): D.M.Brant Date: Control checked by (III): A.K.Heywood T-5976 Date: 1-50 A.C.Rauck T-5977 M2666 PPlo€ or Stereoscopic Date: 1-50 A.K.Heywood T-5976 Control extension by (III): A.C. Rauck T-5977 1-50 A.K.Heywood T-5976 1-50 Planimetry Date: 1-50 A.C.Rauck T-5977 Stereoscopic Instrument compilation (III): Date: Manuscript delineated by (III): A.K.Heywood T-5976 Date: A.C. Rauck Photogrammetric Office Review by (III): Date: T=5976 H.P. Eichert A.K.Heywood T-5977 Asiceanoe Money and Asicean Date: accecs(dibitized) leaderstanded

	Number			Date	Time	Scale	Stage of Tide
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					Tide (III)		
	Reference Subordinat	te Sta	on: Po ation: Ri	m Predicted Tablertland, Maine chmond, Me.	les)		Ratio of Mean Spring Ranges Range Ra
				by (IV): K. N. M			Date: ETan 10,1951
	Final Draft	ing b	y (IV): √.	Batteley, E. Hunt E Hunter duction by (IV): C. Ku M.C. I	ter (5976)	_	Date: June 8, 1951
	Drafting ve	erified	d for reprod	duction by (IV): C. Ko	piec (5976)		Date: June 12, 1951
	Proof Edit	by (N	v):	μ, ε. ι	NEBBER (19	1/1000	Date:

PHOTOGRAPHS (III)

bendaceaciaocatetuta Wiles X(NI)X

Shoreline (More than 200 meters to opposite shore) (III): 36
Shoreline (Less than 200 meters to opposite shore) (III): 21

Shoreline (ress than 200 meters to opposite shore) (m).

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 48

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III): 17
Number of Temporary Photo Hydro Stations established (III):

Remarks:

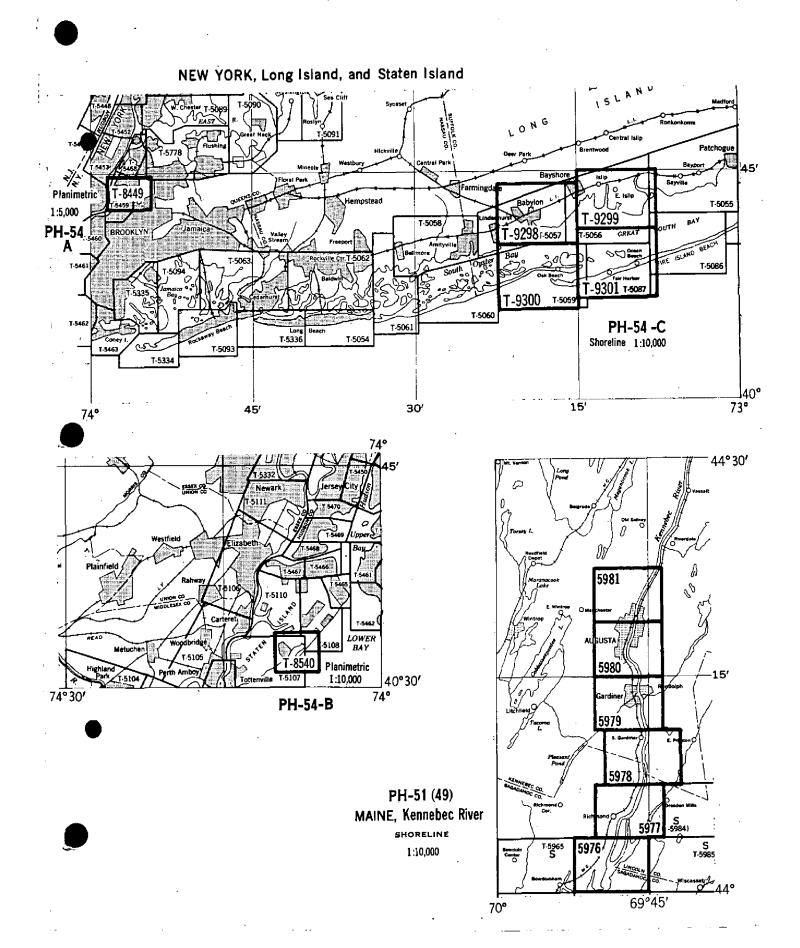
24

Recovered: Recovered: Identified:

Identified:

20

PLANIMETRIC AND SHORELINE MAPPING PROJECT PH-54 (49) PH-51 (49)



Summary to Accompany T-5976 and T-5977

Shoreline maps T-5976 and T-5977 are two of six similar maps in project Ph-51(49) and are the two most southerly maps in the project. Project Ph-51(49) extends along the Kennebec River, Maine, from a junction with project CS-272 at latitude 44° 00' upstream to a point approximately 2 miles north of Augusta at latitude 44° 23'. This is a multiplex project, in advance of hydrographic surveys to be made at a later date. The field operations preceding compilation included recovery and identification of horizontal control, shoreline inspection, inshore inspection, location of aids to navigation, selection and location of landmarks and geographic names investigation. The multiplex compilation was at a scale of 1:10,000 and the manuscripts were used as multiplex sheets.

Data pertaining to T-5976 and T-5977 will be filed as follows:

- (a) Filed in the Division of Photogrammetry.
 - 1. Two map manuscripts, T-5976 and T-5977, scale 1:10,000.
 - 2. Form 524 (17)
- (b) Filed in the Coast and Geodetic Survey Archives
 - 1. Combined Descriptive Report for T-5976 and T-5977
 - 2. A cloth-backed lithographic print of T-5976 and T-5977

FIEID INSPECTION REPORT SHORELINE SHEETS 5976 & 5977 PROJECT Ph-51(49)

E. R. McCarthy, Chief of Party

All phases of the field work were done in accordance with The Director's Instruction, Project Ph-51(49), Field dated 7 July 1949.

The field work on this sheet was performed by the following personnel on the dates indicated:

Name & Title	Field work	Dates
R. A. Horn Cartographic Engr.	Recovery, Identification, Shoreline & Inspection	7/11/49 8/26/49
James A. Clear Jr. Cartographic Survey Aid	Recovery, Identification, & Inspection	7/11/49 8/26/49

1. Description of the Area

The area surveyed includes the Kennebec River from "Abagadasset Point" to "The Bluff", which is approximately two miles north of the Richmond-Dresden Bridge; the Abagadasset River to it's headwaters; the Eastern River to a point about two miles north of the Dresden mills ·highway bridge: and the land areas immediately adjacent to these three rivers.

Access to the area is available by highway, the Maine

Central Railroad, or private yachts.
Swan Island is maintained by the state as a Game Preserve, and is one of the largest wildlife Sanctuaries in Maine. In addition, considerable experimental farming is conducted on Swan Island for the improvement of agricultural crops.

Richmond and Dresden are the principal settlements within the limits of the survey. The principal occupation of the inhabitants of the area is farming. There is, however, some light manufacturing conducted in the vicinity of Richmond.

2. Completeness of Field Inspection

It is felt that field inspection has been adequately covered on the photographs.

3. Interpretation of the Photographs

Some difficulties were encountered in selecting suitable substitute stations, particularly in wooded areas, due to the lack of definition of images. The photography is not considered inferior, but for sake of comparison this fact is mentioned. This group of photographs, taken by Comera "O", seemed to lack the qualities of well defined or sharp detail offered by the photographs taken with Camera "J", which were used on Project Ph-31(48).

4. Horizontal Control

The horizontal control within the limits of the sheets consisted of that established by the U. S. Coast & Geodetic Survey, U. S. Engineer Department and U. S. Geological Survey.

A thorough search was made for all U. S. Coast & Geodetic Survey stations and approximately 40 percent recovered. A total of six (6) U. S. C. & G.S., eight (8) U. S. E. D. and six (6) U. S. G. S. triangulation stations were recovered and identified on photographs for photogrammetric control purposes.

Sheet 5976	
AMES LEDGE LICHTHOUSE - 1918	Pricked Direct
T T 62 B T - 1940	.Pricked Direct
TERM - 1937	Pricked Direct
BEEF - 1937	Pricked Direct
COSTELLOW- 1868	Sub. Station
TIODAY THE - 1955 1913	Dan. Dogotom
NEAVINITETT - 1960 1913	· · Dans Dogozom
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m m c7 D m = 10/0	· onus oracion
CONTOURD - 1077	· · Dan · Dagaran
DINTO _ 1027	· · DUD · DOGOTOTI
ADACA - 1027	Dun. Duauton
DRAM - 1937	Sub. Station
TINAM - LDU/ assessessessessessessessessessessessesse	

Horizontal Control (Cont'd)

RICHMOND CLOCK CHURCH SPIRE	(METHODIST) 1868Pricked Direct
TT85H0 1940	Pricked Direct
K 51- 1935	Pricked Direct
HOUDLETTE - 1868, 1913	Sub. Station
M 51- 1935	
A - 1937	
L - 1937	

To facilitate a "tie" between the U. S. Engineers scheme of triangulation and that of the U. S. Coast & Geodetic Survey in the area, observations for a point and azimuth connection were made. This information is submitted to the Division of Geodesy for any adjustments necessary.

5. Vertical Control

Not applicable

6. Contours and Drainage

Not applicable

7. Mean High water Line

The mean high water line, in virtually all cases, extends back to the woods line. There is, however, an abundance of grass in water, the outer limits of which have been indicated by a dashed line.

8. Low water Line

Where practical, the approximate position of the mean low water line has been shown on the photographs.

9. Wharves and Shoreline Structures

All wharves and shoreline structures discernible on the photographs have been inspected and explained, where necessary. The ruins of many "Ice wharves" are apparent on the photos. These are generally log-faced, stone filled structures in a detached state that were used in the era in which ice was shipped out in considerable quantities. This practice has been abandoned many years.

1

10. Details Off-Shore from Mean High Water Line

At various points along the Kennebec River notations have been made indicating "Crib Piers". These are log-faced, stone filled structures that were used in the days when logs in considerable numbers were floated down river. A log boom was strung between the crib piers to control the movement of the logs. This practice has also been abandoned.

Since the "Ice wharves" and "Crib Piers" are essentially alike in construction, and appearance on the photos, an attempt was made to distinguish each by appropriate notes. Actually the only difference, at this date, is their relative positions. The crib piers are generally strung out and the ruins of the ice wharves generally grouped closely.

Four water-soaked log obstructions were observed in this portion of the river. In all cases they were close to shore, and the tips projected about 6" above the water level. They shift with the tides and a definite geographic position, therefore, could not be satisfactorily determined for charting. This fact should, however, be incorporated in the Coast Pilot Information.

11. Landmarks and Aids to Navigation

All landmarks and fixed aids to navigation within the limits of these sheets were investigated. It was found that there were no truly good landmarks available. Three new landmarks, which are the best to be had, were established. Form 567 will be submitted with the information determined upon completion of this project.

In some instances it was possible for the field party to identify several floating aids to navigation. Although this was not prescribed in the instructions, it was done without any additional effort and it is felt may serve as a check in some quarter. On the surface the ability to do this may appear to refute the testimony in paragraph 3 of this report. In reality it was simply a case of particularly good contrast and other external conditions.

12. Hydrographic Control

Not applicable

13. Landing Fields and Aeronautical Aids

There are no landing fields or aeronautical aids in this area.

14. Roads

The roads and trails were classified in accordance with Photogrammetry Instructions No. 10, dated 14 April 1947, and the Ammendment to the above dated 24 October 1947.

15. Bridges

All bridge information for the area covered by this report as listed in the U. S. Engineers "List of Bridges over Navigable waters in the U. S.", dated July 1, 1941 was verified in the field, all clearances were carefully measured with a steel tape, and the published descriptions and clearances were found to be correct except for the following discrepancies, which were reported to the Local District Engineer.

Kennebec River.

No.Spans Horiz.Clear. Vert. Cl. Dresden (Mouth of Left Center Right (MHW)

Bridge Book----- 34----- 45--- 5.7 Coast Survey---- 2---- 38.0---- 40.0- 4.0(Right) 5.0(Left)

*Richmond, Dresden

Bridge Book----- 69----- 61---- 61---- 15.8 Coast Survey---- 63.4--- 58.2-- 15.6

Dresden (Eastern River & Dresden Bridge)

> Bridge Book----- 230---- 23.5 Coast Survey---- 221.0---- 20.0

*Horizontal clearance of this bridge is restricted more by the dolphins near the footings than by any part of the bridge structure. Weasurements shown are in consideration of said dolphins.

The clearances of all secondary bridges, i.e., those not listed in the Bridge Book, were taken in reference to mean high water.

16. Buildings & Structures

Buildings and structures have been classified in accordance with Photogrammetry Instructions No. 29, dated 10/1/48, with one variation, Part (d) of paragraph 9 in these instructions has been executed in reverse. Since on shoreline sheets all structures are to be shown, the predominant number of buildings come under class 2. Therefore, for clarity, only class l buildings have been identified with all others to be considered class 2. This, of course, is an exception in the settlement of Richmond which is considered an Urban Area and in which public buildings have been identified.

An unusual condition exists in this region in that the barns, for the most part, are connected directly to the dwellings. To simplify the compilation of the buildings a short line has been drawn on the photographs showing the division of barn and dwelling, with the latter then being indicated as Class 1.

17. Boundary Monuments and Lines

There were no boundary monuments or lines within the limits of the sheets.

18. Geographic Names

In accordance with the Project Instructions, a systematic investigation of Geographic Names was not made, however names that were questionable have been investigated. Some new names were added on the Geographic Name Sheet and Photographs, and corrections made where necessary.

Date 8/26/49

James A. Clear Jr. Cartographic Survey Aid

Cartographic Engr.

PHOTOGRAMMETRIC PLOT REPORT

21. AREA COVERED

T-5976 and T-5977.

22. METHOD

Horizontal control was extended on each sheet separately by multiplex. Long bridging of control was unnecessary. The first model in each strip was levelled using the water surface and well-defined points taken from the USGS 15 minute quadrangle.

Two strips were set for T-5976 as follows:

Six models were set (49-0-725 to 731) extending from SUB. PT. HODGKINS, 1885 to SUB. PT. K-51, 1935(USGS) and SUB. PT. HOUDLETTE, 1868. An intermediate control point in the strip was SUB. PT. COSTELOW, 1868. The projection had to be extended two minutes to the south in order to reach SUB. PT. HODGKINS. This station is off the project limits. The strip was scaled between SUB. PT. HODGKINS and SUB. PT. K-51. These points were well-defined. The images of SUB. PT. HOUDLETTE and SUB. PT. COSTELOW were very poor but it is believed they were held.

Five models were set to the west (49-0-735 to 740) from SUB. PT.TT61BT,1940, (USGS) to SUB.PT.TT 63 BT, 1940 (USGS) and a pass point from a strip to the west (49-0-757 to 762.) The strip was scaled between these points. There were also two intermediate control points in the strip, TT 62 BT, 1940 (USGS) and SUB. PT. MAXWELL, 1860. TT62BT was well-defined and held. SUB.PT.MAX-WELL appeared to be on although the image was so poor it could not be consistently identified in the models. Details from the adjoining strip to the east held well. All USE stations plotted 0.8 mm north.

Two strips and two individual models were set up for T-5977 as follows:

A five model strip (49-0-757 to 762)* was set and scaled between SUB. PT. MESERVE, 1868 at the north end and RICHMOND CLOCK CH.SP., 1868 at the south. Also held in this model were RICHMOND CONG. CH.SP., 1868 and RICHMOND BROWN CH. SP., 1868. While the latter two stations were not identified by the field inspection party, the churches had been identified and the spires were easily descernible in the multiplex model. Intermediate control points in this strip were TT 85 HO, 1940 (USGS), SUB. PT. A, 1937 (USE), SUB. PT. L-06, 1937 (USE) and NITE, 1937 (USE). Although no attempt was made to hold the latter three USE stations, their plotted positions held in the strip as did all the control.

As complete coverage in the vicinity of Richmond could not be obtained from model 49-0-761-762 pass points were left to the east to control model 49-0-734-735 which was needed for complete coverage. This model also tied well with the details from T-5976 to the south.

* It should be noted that model 49-0-761-762 had a small working area. The overlap between the two photographs was only about 42%. In addition, 49-0-762 had an unusual amount of tip and tilt. Despite these conditions the accuracy of the bridging is believed good.

22. METHOD

A three model strip was set to the east (49-0-730 to 733) to complete the work. In order to control this short bridge at the north end, it was necessary to bridge control with an intermediate model to the west (49-0-722-723). In this model pass points from the adjoining strip to west plus SUB. PT. L-06 and NITE were held. Pass points were left to the east which afforded control.

The field inspection party had inadvertently omitted the distance between M-51, 1935 (USGC), and SUB. PT. M-51 on the form control station identification. This would have afforded a control point for the north end of the aforementioned strip. Nevertheless, from the description of M-51 which furnished ground measurements from identifiable features, the station proper was identified in the office and held. In model 49-0-730-731, at the south end of the strip, SUB. PT. K-51, 1935 (USGS) and SUB. PT. HOUDIETTE, 1868, were available as control. The adjacent planimetry to the south and west held very well.

As compilation of shoreline and planimetry was done directly on the manuscript after each strip was scaled, no transfer of points was necessary.

23. ADEQUACY OF CONTROL

Inasmuch as the USE stations at the south portion of the project were reported in error (see Instructions, Project Ph-51(49) dated 6 December 1949, item-6), and could not be used for horizontal control, only the minimum control requirements were met for T-5976 and T-5977. Nevertheless, the control is believed to be adequate as good ties were made between adjoining quadrangles and strips.

24. SUPPLEMENTAL DATA

Inapplicable.

25. PHOTOGRAPHY

Photographic coverage and overlap were satisfactory. The quality of the diapositives was fair to poor. Definition was for the most part fuzzy which often made it difficult to accurately identify horizontal control points. The fact that the strips were fogged at the outer edges hindered the clearing of parallax in the models. In spite of this the models appeared to be free of distortion as evidenced by the ease in making ties. It may be noted that the models as a whole would not have been suitable for contouring.

26. RECOMMENDATIONS

Although the ratio prints seemed to be lacking in definition,* they had considerably more contrast than the diapositives. It is felt that the diapositives could have been printed with more contrast. This is recommended for future work.

*Perhaps this is the result of an increase in flying height as compared with previous work flown at lower altitude - 12,000 feet as compared with 10,000 feet.

27. ACCURACY

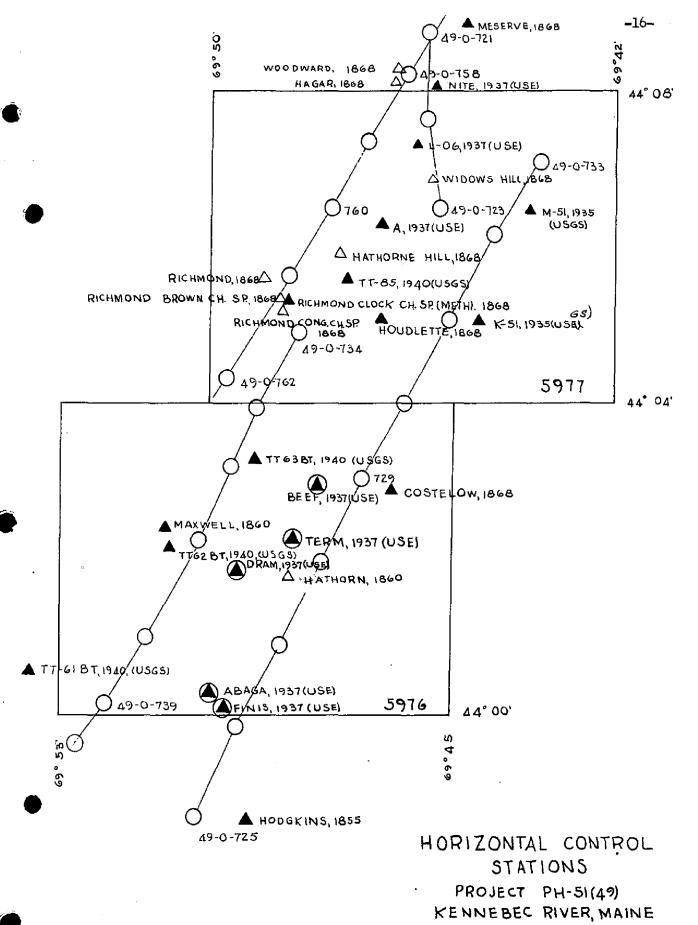
It is believed that all well-defined points are within 0.5mm of their correct geographic position.

Approved and forwarded

Hubert A. Paton Oomdr., USC&GS Officer in Charge Respectfully submitted 15 March 1950

Henry P. Eichert Cartographer (Photo.)

V sm. 3/5/50



△ Triangulation Station (Recovered, not identified)

Triangulation Station (Identified and held)

Triangulation Station (Identified, not held)

DATE

DATE.

COMPUTED BY.

TT62BT,

USGS

USGS

STATION STAT	MAP T. 3977		PROJECT NO.	CT NO.	SCALE OF MAP TEL	T: TO 000	SCALE FACTOR)R 1.000
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not verified by multiplex. Point not identified. 1.278.3 (52.0) not verified by multiplex. Point not identified. 1.28		2.6	÷	6-11 , pt			1/2.	
not verified by multiplex. Point not identified. ***Astar "#*'05' 0/.4%" #5.7		D. 286		16,30			T ~	
not verified by multiplex. Point not identified. 4.57 (1806.2) 4			-				1	
4.28 " 44'05' 01.48'0	** Position	not veri	by	Point not	'dentified.			
" " 44° 047' 50.273	War Islands	1828	•	84.10,50				
" " 44" 04' 31.63 976.3 (875.0) 976.3 (875	1868	,	*	,44,				
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	COMPUTED BY: Henr	y P. Eich	<u> </u>	1-50		Heywood	DATE	,

COMPILATION REPORT

Ph-51(49)

T-5976 and T-5977

31. DELINEATION

Refer to Photogrammetric Plot Report.

32. CONTROL

Refer to Photogrammetric Plot Report

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Only drainage adjacent to the shoreline was shown.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate. The approximate low water in all instances was compiled from data furnished by the field party.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

The landmark "Red Barn 1949" located on Abagadasset Point was not pricked on the field photograph. The description on Form 524 was inadequate for office pricking of this landmark. It was assumed by the photogrammetric office that the point intended was the east gable of the barn, this being nearest to the shoreline. The point shown on the manuscript is the east gable and a new form 524, "BABLE, 1949" submitted.

GABLE

The position of Ames Ledge Daybeacon was believed by the field party to be in the same position as was Ames Ledge Lighthouse, 1913. The geographic position of the lighthouse was reported as the position of Ames Ledge Daybeacon on forms 524 and 567. See item 68

Forms 567 were submitted for manuscripts T-5976 and T-5977 and forwarded to the Washington Office March 28, 1950.

38. CONTROL FOR FUTURE SURVEYS

The multiplex positions of all USE triangulation stations were shown as topographic stations in accordance with Project Instructions dated 7 July 1949.

T-5976: Five USE triangulation stations were within the limits of this quadrangle. Not any of these five stations could be held during the multiplex bridging. Three stations, FINIS 1937, ABAGA 1937, and DRAM 1937, were located in the field by the substitute station method. The true positions of the triangulation stations were found by computing the differences in X and Y coordinate values between the computed substitute stations as identified by the field party, and the scaled multiplex positions of the substitute stations. These same differences in X and Y values were then used to adjust the USE triangulation stations to their true positions. These true positions The positions of the two remaining USE triangulation stations, were shown as topographic stations.

BEEF 1937, and TERM 1937, were plotted during multiplex bridging and also shown as topographic stations.

T-5977: Two USE triangulation stations that held in agreement with other control were shown in this manuscript as topographic stations.

There were twelve forms 524 submitted for manuscript T-5976 and five forms 524 submitted for manuscript T-5977. Total of 17 form 524 cards filed in Div. of Photogrammenty

These forms were transmitted March 28, 1950. eneral files.

Since a list was not made of the recoverable topographic stations in paragraph 11, Field Inspection Report, a listing is made here by separate quadrangles.

The positions of all of the following recoverable topographic stations except Ames Ledge Daybeacon was determined by multiplex methods. see Review Report

38. CONTROL FOR FUTURE SURVEYS (continued)

T-5976:

*Abaga 1950
Abagadasset Point Range Front Daybeacon
Abagadasset Point Range Rear Daybeacon
Ames Ledge Daybeacon (Position same as

Ames Ledge Daybeacon (Position same as Ames Ledge L.H.) See Review Report

Beef, 1950

Beef Rock Daybeacon

Chimney, 1949

Cupola (Barn Cupola 1949)

* Dram, 1950 * Finis, 1950

> Gable, 1949 Term, 1950

T-5977:

** A 1937

** L-06 1937

Tower (Signal Tower 1949)

Tower (West Tower 1949)

Tower (East Tower 1949)

* The positions of the substitute points of these stations were determined by multiplex. See the second paragraph of Item 38.

** USE stations held with other control.

39. JUNCTIONS

To the north a junction was made between Survey No. T-5977 and T-5978. To the south a junction was made between Survey No. T-5976 and T-5975. A junction was also made between the two manuscripts covered in this report. There were no contemporary surveys to the east and west of these two quadrangles.

40. HORIZONTAL AND VERTICAL ACCURACY

Horizontal Control:
Refer to Item 38 and Photogrammetric Plot report, Item 23.

46. COMPARISON WITH EXISTING MAPS

Comparison was made between the manuscript and U.S.Geological Survey quadrangles Gardiner, scale 1:62,500, edition of 1943 reprinted in 1947, and Wiscasset, scale 1:62,500, edition of 1944 reprinted in 1948. In accordance with Instructions Project Ph-51(49) dated 7 July 1949, all roads within two miles of the river were visually compared with the Geological Survey quadrangles for new construction and new alignment. They were in good agreement.

47. COMPARISON WITH NAUTICAL CHARTS

Visual comparison was made between the manuscripts and Chart 288, scale 1:15,000, published May 1943 (3rd edition). In the vicinity of Green Point the chart shows considerable swamp area. The field party noted however, on Photograph 0-729 (1:10,000) that this area is not swamp but "relatively low land".

Items to be applied to nautical charts immediately: See above paragraph.

Items to be carried forward:
None.

Approved and forwarded

Respectfully submitted 28 March 1950

Hubert A. Paton, Comdr., USC&GS Officer in Charge Albert K. (Heywood Surveying and Carto.Aid

zin 2/10/20

M-2623-12

PHOTOGRAMMETRIC OFFICE REVIEW

T- 5976

	1. Projection and grids <u>G.C.R.</u> 2. Title <u>A. 3. Manuscript numbers</u> 4. Manuscript size <u>E.</u>
_	CONTROL STATIONS
	5. Horizontal control stations of third-order or higher accuracy 6. Recoverable horizontal stations of less
	than third-order accuracy (topographic stations) 7: Photo hydro-stations 8. Bench marke
	9. Plotting of sextant fixes 10. Photogrammetric plot report 11. Detail points
	10. Friotogrammetric plot report 12: C2 11. Detail points
	· ALONGSHORE AREAS
	(Nautical Chart Data)
	12. Shoreline 13. Low-water line 14. Rocks, shoals, etc. 15. Bridges 16. Aids
	to navigation 17. Landmarks 18. Other alongshore physical features 19. Other along-
	shore cultural features
	PHYSICAL FEATURES
	20. Water features
	-Instrument contours 24. Contours in general 25. Spot elevations 26. Other physical
	features
	27. Roads 28. Buildings 29. Railroads 30. Other cultural features 28.
	BOUNDARIES
	-31. Boundary lines32. Public land lines
	MISCELLANEOUS
	33. Geographic names 34. Junctions 35. Legibility of the manuscript 36. Diserepancy
	everlay 37. Descriptive Report 38. Field inspection photographs 39. Forms
	an henry (Enhal)
	Reviewer Supervisor, Review Section or Unit
•	41. Remarks (see attached sheet)
	FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
	42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The
	manuscript is now complete except as noted under item 43.
	Compiler Supervisor

43. Remarks:

PHOTOGRAMMETRIC OFFICE REVIEW

T- 5977

1. Projection and grids TLJ-2. Title 3. Manusc	eript numbers 4. Manuscript size
5. Horizontal control stations of third-order or higher accuracy than third-order accuracy (topographic stations) 7. P. 9. Plotting of sextant fixes10. Photogrammetric plot	1. C. 17. 6. Recoverable horizontal stations of less hoto hydro stations8. Bench marks
ALONGSHORE (Nautical Chart 12. Shoreline 13. Low-water line 14. Rocks to navigation 17. Landmarks 12. 18. Other alo	Data) , shoals, etc. 15. Bridges 11. 16. Aids
PHYSICAL FEA 20. Water features 21. Natural ground cover 11. instrument contours 24. Gentours in general features 11.	22. Planetable-contours 23. St ereoscopi c
CULTURAL FEA	TURES 30. Other cultural features
BOUNDARI	ES
31. Boundary lines 32. Public land lines	
	egibility of the manuscript 36. Biscrepancy spection photographs 39. Forms Supervisor, Review Section or Unit
41. Remarks (see attached sheet)	
FIELD COMPLETION ADDITIONS AND COR 42. Additions and corrections furnished by the field completion manuscript is now complete except as noted under item 43.	
Compiler	Supervisor
43. Remarks:	M-2623-12

367	1945
Form	April

DEPARTMENT OF COMMERCE

U. S. COAST AND TODETIC SURVEY

NONFLOATING AIDS OBXIXADIDMARKGARORGERARES

TO BE CHARTED STRIKE OUT ONE

Baltimore, Maryland

March 22 19

I recommend that the following objects which have (barnage) been inspected from seaward to determine their value as landmarks be charted on (dalated stands the charts indicated.

The positions given have been checked after listing by Henry P. Eichert

Hubert A. Paton

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STATE Maine	ine ine			*	rosillos		•	METHOD		TAA Bah	viio.
-			LAT	LATITUDE	LONG	LONGITUDE		LOCATION	DATE OF		CHARTS
CHARTING	DESCRIPTION	SIGNAL	-	D. M. HETERS	-	D. P. METERS	DATUM	SURVEY No.	LOCATION	OBNAH	H2**10
PN	Abagadasset Point Range	15976.	00 77	218	67 69	951	N.A.	Multiplex	9X	*	288, 314
BN	Abagadasset Point Range Rear Daybeacon	*	£7		l.	. 77.	ш.	. =	n	þ	288, 31,
EM	Ames Ledge Daybeacon	1 759.76	1	•	. 69	/ 0.9 118k	#	744 Plex 5976	1973	×	288, 314
BN	Heef Bock Daybeacon	175976.	77 05	1532	, 69	, , 691	. =	Multiplex 5976	194.9		288,1204
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		10	7 2	getter	n ed	Le 75976 W	1 ,	2575	1274 179	*	
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given. U. S. COVERNMENT PRINTING OFFICE: 1949 O - 853418

Form 567 April 1945

DEPARTMENT OF COMMENCE U. S. COAST AND FEODETIC SURVEY

STRIKE OUT ONE T.Q. R.E. P.El-ETEBA TO BE CHARTED

Baltimore, Md.

March 22

*ANONELOATIME OF LANDMARKS FOR CHARTS

I recommend that the following objects which have (hauxxiand) been inspected from seaward to determine their value as landmarks be charted on (deletel street), the charts indicated.

The positions given have been checked after listing by

Henry P. Eichert

Hubert A. Paton

DESCRIPTION SUGANAL C. LANTIDEE LONGITUDE									:		C	Chief of Party.
Maing Description Descri	STATE				L	OSITION			METHOD		 -	HART
East gable of red wooden barn on NAME		Maine		LATI	TUDE	LONG	ITUDE	_	LOCATION	DATE		
East gable of red wooden barn on	CHARTING	DESCRIPTION	SIGNAL		D. M. METERS		D. P. METERS	DATUM	SURVEY No.	LOCATION		<u>«</u>
Cupola in center of barn N & S	- CABIE	East gable of red wooden barn on	· •	777	525	67 69	956	N.A. 1927	Multiple 5976	1	**	288, 314
Red brick chimney center of 44 03 1790 69 46 1052 " " 1949 x 4 4 03 1790 1790 1790 1790 1790 1790 1790 1790	A TOTTO	Cupola in center of barn N & S		77		07 09	704	=		10.00	•	288
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U. S. GOVERNMENT PRINTING OFFICE: 1949 O - 853418

Form 567 April 1945

UNITARIBELL OF COMMERCE **EODETIC SURVEY** U. S. COAST AND

MONITY OF THE TANDER OF THE TANDER FOR CHARTS

Baltimore, Maryland

1950

I recommend that the following objects which have (tane-net) been inspected from seaward to determine their value as landmarks be charted on (designat from) the charts indicated.

The positions given have been checked after listing by Albert K. Heyncod

STRIKE OUT ONE

TOMBENBEREBOX TO BE CHARTED

Hubert A. Paton

	o to to				POSITION	NO			CONTENT		ı⊢—	18AH
SIAIE			LATI	LATITUDE		LONGITUDE	10E		LOCATION	DATE . OF		CHARTS
CHARTING	DESCRIPTION	SIGNAL	-	D. M. METERS	۰	-	D. P. METERS	DATUM	SURVEY No.	LOCATION	OBSAH IOHSHI	APP PE
TOWER	Central Maine Railroad Semaphor No. 483		10 7 11	736	69	577	1281	N.A.	Multiplex 99.77	676l x	K	582
	Skeleton Steel Power Teansmission Tower (West Tower)		44 05		69	4	1227		=	=	×	288
TOWER	Ditto (East Tower)		44 65	1201 69 44	7 69	- 4	1019	ŧ	*	n	×	288
	Richmond Cong.Church Spire		44 05	284 69 48	69	90	363	*	T rt 5977	1868	×	288
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

U. S. GOVERNMENT PRINTING OFFICE: 1949 O - 853418

48(a) GEOGRAPHIC NAME LIST FOR T-5976

- * Abagadasset Pt.
- · VAbagadasset River
- · VAmes Ledge
- Baker Brook
- Beef Rk
- · Carney Pt.
- . Cooksey Channel
- -/ Cork Cove
- . √Dram Rk
- . Eastern River
- . V Green Pt.
- · /Hatch Pt.
- Jefferson School
- · Lillys Cove
- -√ Maxwell I
- M.C.R.R.
- . Me 24
- Me 127
- Me 128
- . Middle Ground
- . V Pork Point
- . River Road School
- · /Shipyard Pt.
- . South Dresden
- Stiphinin Pt.
- √Swan Island
- . Swan Island Flats
- . Swan Island Point
- Theobald Pt.
- . Twing Pt.
- Wade Cove Wade Webbs Point.

Names approved
1-3-51
a.g.W.

48(b) GEOGRAPHIC NAME LIST FOR T-5977

- Campmeeting Point
- Cedar Grove
- ~ Clay Cove
- Courthouse Pt.
- · Dresden Mills
- . √Eastern River
- a Forest Hill Com.
- _ Goodwin Pt.
- Hathorn Hill
- .Iceboro
- ³√Little River
- , Little Swan Island
- · M.C.R.R.
- 'Me.24
- Me 197
- Me 128
- Me. 127
- Reed Rock
- Richmond
- , Richmond Camp Ground
- Richmond Dresden Bridge
- · St. Johns Church · Southard Point
- Stearns Pt.
- Swan Island Game Preserve (Not shown on St map)
- The Bluff
- .v The Narrows ___ Lovejoy Navvows on ch 288
- * West Dresden

Names approved

1-3-50

a.g.w.

49. NOTES FOR THE HYDROGRAPHER

The following is a list by quadrangles of recoverable topographic stations:

T-5976

Abaga 1950
Abagadasset Point Range Front Daybeacon
"Rear"

Ames Ledge Daybeacon

Beef, 1950
Beef Rock Daybeacon

Chimney, 1949
Cupola (Barn Cupola 1949)

Dram, 1950

Finis, 1950

Gable, 1949

<u>T-59**77**</u> A-1937

L-06 1937

Term, 1950

Tower (Signal Tower 1949) Tower (East Tower 1949) Tower (West Tower 1949) ser 737

NOTES FOR THE REVIEWER

Photo point No. 1 and photo point No. 2, in the vicinity of Maxwell Island, shown in red on manuscript T-5976, are points furnished by the field party to use in plotting Abagadasset Point Range (See photograph 0-738 1:10,000). It was assumed this point on range was to be used as a check in the positions of Abagadasset Point Range Front and Rear Daybeacons. These three points, however, do not fall in a straight line. Comparison was made between the positions of these daybeacons on Chart 288 and their positions in the manuscript and found to be in good agreement. See the Review Report for the applanation of this condition.

REVIEW REPORT. Shoreline Maps T-5976 and T-5977 10 January 1951

62. Comparison with Registered Topographic Surveys

T-1115 T-1158 1:10,000

1869-90

These maps supersede T-1115 and T-1158 for nautical charting purposes.

63. Comparison with Maps of other Agencies

Gardiner, Maine, U.S.G.S. quadrangle 1:62,500, 1941 Wiscasset, Maine, U.S.G.S. quadrangle 1:62,500, 1941

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

Chart 288, 1:15,000, ed. 1943, corr. 11/22/48 Chart 289, 1:15,000, ed. 1943, corr. 9/26/49

The northern portion of the Training Wall, shown as awash at MHW on T-5976 is shown as above the MHW datum on chart 289.

Several differences in geographic names occur between the map and the charts. Refer to the Geographic Names Report filed in the Geographic Names Section, Division of Gharts, also the attached list of approved geographic names.

The towers supporting high tension lines over the (28%) Eastern River shown on T-5977 are (not) shown on the chart.

A cable crossing just north of the Richmond-Dresden Bridge on T-5977 is not shown on chart 288. (Marked on Aid Proof)

The jetties south of Clay Cove shown as awash at MHW on T-5977 are shown as above the MHW datum on chart 288.

The shape of Little Swan Island differs on T-5977 from that shown on chart 288.

Refer to item 47 of the compilation report for differences between the map and chart 288 at Green Pt.

Small differences in shorelines and the number of near shore obstructions are apparent between the map and the charts but these differences are not critical to navigation.

These maps are adequate as a base for hydrographic surveys and the construction of nautical charts.

They meet the national Standards of map accuracy.

Control

Eight triangulation stations were plotted on the manuscripts. These are stations that were searched for and not recovered but were not indicated as being lost or destroyed. They are as follows:

> T-5976 Blair, 1868 Swan Island 1, 1868 Sharp Top, 1870 Pine, 1870 Pray, 1870 McFadden, 1870 Swan Island 3, 1868 Wilson, 1868

Landmarks and Aids

Recoverable topographic station Ames Ledge Daybeacon has been determined to be in the same position formerly occupied by the Ames Ledge Lighthouse as based on local reports. See item 37 of the compilation report concerning geographic position submitted.

The Abagadasset Point on Range does not fall in line with the Abagadasset Point Range Front and Rear Daybeacons. The application of the data on Photo Pts. 1 and 2 and the angle and distance to the Point on Range as furnished on the Control Station Identification form positions the Point on Range about 0.3 m m inshore from the shoreline and east of the trees bordering the shoreline. The sketch on the field pricking card indicates the Point on Range as being in the open field west of the trees bordering the shoreline. It is evident that the plotted position and the sketch description do not agree for the Point on Range and some error probably in the measurement of the distance to the Point on Range from Photo Pt. 1 has been made in the field. The Point on Range has been deleted from the manuscript.

Reviewed by:

Approved:

NAUTICAL CHARTS BRANCH

SURVEY NO. <u>T-5976</u> 27

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
1/11/51	3/4	John M. M'Alina	before finally approved
2/11/53	288 Reco	nstr. Sterin	Before After Verification and Review
48/54	289 (Bern	#) fru et al	Before After Verification and Review 7 5977
			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
			<u> </u>

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.