
Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Photogrammetric

Field No Ph-101(52) Office No. T-11060

LOCALITY

State Virginia

General locality Piankatank River

Locality Roane Point to Anderson Point

194/52-53

CHIEF OF PARTY

L.C. Lende, Div. of Photo. Washington D.C.

LIBRARY & ARCHIVES

DATE June 23, 1958
DATA RECORD

T - 11060

Project No. (II): Ph-101(52) Quadrangle Name (IV): Roane Pt. to Anderson Pt.
Field Office (II): Piankatank River, Virginia
Chief of Party:

Photogrammetric Office (III): Washington Officer-in-Charge:

Instructions dated (II) (III):

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III):

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 21 Jan 1958

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA 1927

Vertical Datum (III): MHW

Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (2) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): STAMPERS 1942

Lat.: 37° 32' 14.679 (452.5) Long.: 76° 25' 35.677 (875.9) Adjusted

Plane Coordinates (IV):

State:

Zone:

Y =

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)

Inapplicable
DATA RECORD

Field Inspection by (II): None

Planetale contouring by (II): Inapplicable

Completion Surveys by (II):

Mean High Water Location (III) (State date and method of location):
Interpreted in office on photographs taken 1952

Projection and Grids ruled by (IV): Jack Allen

Projection and Grids checked by (IV): Howard Wolfe

Control plotted by (III): C. Hanavich
                           E. H. Ramey

Control checked by (III): C. Hanavich
                         E. H. Ramey

Radial Plot or Stereoscopic
Control extension by (III): R. J. French
                           Planimetry

Stereoscopic Instrument compilation (III): Contours

Manuscript delineated by (III): E. H. Ramey

Photogrammetric Office Review by (III):

Elevations on Manuscript
checked by (II) (III): Inapplicable
Camera (kind or source) (III): USC&GS, Single-lens camera "O"

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<tr>
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<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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Tide (III)

Reference Station: Hampton Roads
Subordinate Station: Horse Point, Piankatank River

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<th>Spring Range</th>
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<td>2.5</td>
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Washington Office Review by (IV):
Final Drafting by (IV):
Drafting verified for reproduction by (IV):
Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III):
Shoreline (More than 200 meters to opposite shore) (III):
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II):
Number of BMs searched for (II):
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks:
PHOTOGRAMMETRIC PLOT REPORT

Project Ph-101(52)
Refer to "control index" attached to this report.

Area Covered:

This radial plot report covers the sheets listed above and extends from control just south of the Plankatank River, north to a line of U.S.C.G.S. 3d order traverse just north of the headwaters of the Corrotoman River and ties to a nine-lens radial plot on the East.

Photography:

The "0" camera was used and ratio prints were made on positype paper at compilation scale of 1:10,000. It was not considered necessary to use a distortion correction templet in making the templets after an inspection of several photographs indicated they were relatively free of angular distortion. Side lap between flights was a maximum of 10 percent with some flights just meeting. This in itself was not conducive to a strong plot where control was not specifically distributed for a single lens plot.

Methods:

Acetate templets were used and when the plot did not lay satisfactorily, new projections were ordered on vinylite and an attempt was made to hold control better. Intersections between flight lines were not of the best to be desired, but an overall adjustment was accomplished such as to distribute any large inherent errors that might exist.

The intersections were drilled with a number 80 twist drill, and the pass points and photo centers were inked with GFO blue ink on the back side of the manuscript.

A sheet layout index to control used is attached to this report, and a summary of the control and the tolerances obtained are listed with side remarks on control not held.

The distribution of control is not adequate for a single lens plot of this kind, but the side lap coverage of the photography is more delinquent than the deficiency in control since it was necessary to bridge from control on the north bank of the Rappahannock River north to Slaters RM No. 1, 1942 and on to the traverse along State Highway No. 3 near Lancaster.

An accuracy test will be made with the stereoplanigraph bridging between control. Compilation will be delayed pending the outcome of that work.*

Approved by: L. C. Lande

Submitted by: Roscoe J. French

*only for T-11052, 11054, 11056 and T-11226
**SUMMARY**

Control used in the Radial Plot - T-11052, T-11054, T-11056, T-11058, T-11060, T-11226.

<table>
<thead>
<tr>
<th>Station Name</th>
<th>Tolerance</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Plankatank 19(v) 1932 Sub.pt.</td>
<td>Held</td>
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<tr>
<td>Pts - 1 (USGS) 1916</td>
<td>Held</td>
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<tr>
<td>Plankatank 17(v) 1932 Sub.pt.</td>
<td>Held</td>
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<tr>
<td>Air Beacon WNAB-4, 1942</td>
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<tr>
<td>Stamper 1942</td>
<td>Held</td>
<td></td>
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<tr>
<td>Mill, 1953</td>
<td>Held</td>
<td>4th order used to control radial/plot</td>
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<td>Harmony, 1942</td>
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<tr>
<td>Har, 1953, Sub.pt.</td>
<td>Held</td>
<td>4th order used to control radial/plot</td>
</tr>
<tr>
<td>Grey Pt. Lt., 1944</td>
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<tr>
<td>Grey 3, 1942</td>
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<tr>
<td>Cherry 3, 1944, Sub.pt.</td>
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<tr>
<td>Cherry 3, 1944</td>
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<td>Whitestone ME Ch.Sp., 1942</td>
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<tr>
<td>Pon, 1953</td>
<td>Held</td>
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<tr>
<td>Orchard 3, 1942</td>
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<td>Old House (v) 1919, Sub.pt.</td>
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<tr>
<td>Slater, 1942, 1944 sub.pt.</td>
<td>Held</td>
<td>Falls SW of computed position</td>
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<tr>
<td>Kilmarnock Mun.W.T., 1942</td>
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<tr>
<td>PP18F, 1944</td>
<td>Held</td>
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<tr>
<td>PP17F, 1944</td>
<td>Held</td>
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<tr>
<td>EM 18, 1944</td>
<td>Held</td>
<td>Falls NE of computed position</td>
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<tr>
<td>EM K 270, 1944 sub.pt.</td>
<td>Held</td>
<td>Falls SW of</td>
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<tr>
<td>EM J 270, 1944 sub.pt.</td>
<td>Held</td>
<td>&quot;</td>
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<tr>
<td>EM H 270, 1944 sub.pt.</td>
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<td>PP 7 F, 1944</td>
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<td>3rd order Trav.</td>
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<td>PP 6 F, 1944</td>
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<td>Rog, 1944</td>
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<tr>
<td>Bar Pt. Lt.</td>
<td>Held</td>
<td>Falls NW</td>
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<tr>
<td>Har, 1944</td>
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<tr>
<td>West Pt. Lt.</td>
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* Fall on T-11060
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<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y-COORDINATE</th>
<th>LONGITUDE OR X-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)</th>
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<tr>
<td>WN-Norfolk Airway Bn. No. 4 1942</td>
<td>P.463</td>
<td>NA 1927</td>
<td>37 33</td>
<td>02 029</td>
<td>62.6 (1787.2)</td>
<td>563.8 (909.0)</td>
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<td>Stampers 1942</td>
<td>P.457</td>
<td>NA 1927</td>
<td>37 32</td>
<td>14 679</td>
<td>30.829</td>
<td>184.8 (1397.3)</td>
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<tr>
<td>Piankatank 17 (V) 1932</td>
<td>P.541</td>
<td>&quot;</td>
<td>37 32</td>
<td>04 264</td>
<td>24.551</td>
<td>114.9 (597.1)</td>
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<td>Piankatank 19 (V) 1932</td>
<td>P.540</td>
<td>&quot;</td>
<td>37 31</td>
<td>35 543</td>
<td>1095.8</td>
<td>754.0 (1423.2)</td>
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<td>PTS-1 (USGS)</td>
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1 FT = 304.8006 METER

COMPUTED BY: S.J. Hathorn  DATE: April 1953  CHECKED BY: N.S. Schultz  DATE: Apr. 1953
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<th>LATITUDE OR $y$-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<tr>
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<td>G-5646 P-536</td>
<td>NA 1927</td>
<td>37 31 32.569</td>
<td>1004.1</td>
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<td>Marchant (VFC) M 20</td>
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<td>&quot;</td>
<td>76 22 35.891</td>
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<td>76 24 13.63</td>
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<td>Cedar (VFC) 1920</td>
<td>&quot;</td>
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<td>37 30 57.582</td>
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<td>37 30 148.387</td>
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<td>37 30 51.153</td>
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<td>37 31 18.599</td>
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1 FT = 0.3048006 METER

COMPUTED BY: C.H. DATE: 13 May 1953
CHECKED BY: C.H. DATE: 13 May 1953
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<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>Piankatank 16</td>
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<td>1927</td>
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<td>37 32 09.586</td>
<td>76 29 44.960</td>
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<td>(VFC) 1932</td>
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<td>Piankatank 25</td>
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<td>37 32 21.490</td>
<td>76 29 54.896</td>
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<td>P.537</td>
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<td>1920</td>
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</table>

1 FT = 304.8006 METER

Compilation Report
Shoreline Survey T-11060

31. Delineation.- Features were delineated by the graphic method and include only shoreline, waterfront structures, the low-water line and shallow lines. Delineation was done without the benefit of field inspection and is subject to errors in office interpretation. Single-lens photographs taken in October 1952 were used for the compilation.

32. Control.- Only four triangulation stations in this survey were identified and used in the radial plot (see the Photogrammetric Plot Report for listing). The remainder which the Division of Geodesy reports as extant were plotted as part of this compilation. Some of these plotted at or offshore from the MHW line and are referred to the hydrographic party for checking. These are: Yellow (VFC) 1920, Lower (VFC) 1920, Piankatank 6 (VFC) 1932, Piankatank 7 (VFC) 1932, Piankatank 26 (VFC) 1932.

33. & 34. Inapplicable.

35. Shoreline and Alongshore Details.-These details were interpreted on the photographs. Shallow lines represent tone lines on the photographs which may be of possible value to the hydrographic party.

36. & 37. Inapplicable.

38. Control for Future Surveys.-Identifiable alongshore details were positioned during this compilation for use by the hydrographic party. These are identified and labeled on photographs 52-0-1940 and 1941, 52-0-1931, and 52-0-1879 and 1880. They are also listed under paragraph 49.

39. Junctions.-This survey junctions with T-11058 to the northward and with T-11061 to the eastward.

40. Horizontal Accuracy.-See the Photogrammetric Plot Report.

41. to 45. Inapplicable.

46. Comparison with Registered topographic surveys.-

$\text{T-8340} \quad 1:20,000 \quad 1946$
$\text{T-8341}$

Except for minor differences in shoreline and cultural changes, this survey is in close agreement with these prior surveys. Examples of some shoreline differences are the north shoreline of Piankatank River at longitude 76° 30'12" and 76° 31'11". Here the prior survey apparently chose some line for mean high water instead of showing an apparent shoreline along marsh.
47. **Comparison with Nautical Charts.**

534 1:40,000 1951 corrected to 53-2/9
See items listed under par. 46.

*Items to be applied to charts immediately:* None

*Items to be carried forward:* None

Submitted by:

[Signature]

Everett H. Ramey
22 May 1953

APPROVED BY:

[Signature]

L. C. Lande
Chief, Compilation Section
Div. of Photogrammetry
Hydrographic Signals
Project Ph-101
Sheet T-11060

Photo - 52-0-1941

700 thru 704 - inadvertently were not used
705 Pier end
706 E corner of dk. spot
707 Pier end
708 Veg. end at point
709 Pier end
710 Pier end
711 N. Gable of House
712 Mound
712A N.W. Corner of pier
713 N.W. Gable House
714 Bush
715 Lone tree
716 N.W. Corner "T" pier
717 Pier end
718 Pier end
719 Pier end
720 Pier end
721 Dark Spot
722 E. Gable
723 E. end of pier
724 Pier end
725 Pier end
427 N. Gable
428 S. Gable
429 N. end of pier
430 Tree
431 Corner of sand

52-0-1940

726 Pier end
727 Pier end
728 E. Gable
729 Pier end
730 Pier end
731 Pier end
732 E. end of Pier
733 Fender of bridge
734 W. end of pier
735 Pier end

52-0-1931

736 S. shore end of dock
737 N. corner of pier
738 Pier end
739 Tree
740 N.W. corner of pier boathouse
741 Bush
742 Bush
743 Bush at point
744 Lone tree
745 Pier end
746 End tree at point
747 Offshore Gab of Boat House
748 Pier end
749 Center of white Sand spot
750 Offshore Gab. of Bo.Ho.
751 Pier end
752 S. Corner dock
753 End tree
754 Bush at Point
754A N.E. edge of sand

52-0-1879

755 Pier end
756 Dark Spot
756A Pier end
757 E. corner of pier
758 Dark Spot
759 Offshore gable
760 (Piankatank 17 sub pt) pier end
761 Offshore gable
762 Pier end
763 Lone tree
764 Center of dark spot
765 Lone tree
766 Lone—shrub Shad
767 N.W. corner of pier

52-0-1880

768 Dark spot
769 N.E. corner of pier
770 Pier end
771 Lone bush
772 Dark spot
773 Dark spot
774 Fence at MHWL
775 Lone tree
776 Dark Spot
777 Pt of vegetation
778 Pt of vegetation
779 Lone tree
780 Easterly tree
781 Dark spot
782 Lone tree
783 Pt at crock of stream
BERKLEY ISLAND
CUBS CREEK
COACH POINT
COOPER POINT
CREEK POINT
DANCING CREEK
DEEP POINT
DOCTOR POINT
FERRY CREEK
FRENCH CREEK
GINNEY POINT
GLEBE NECK
HEALY CREEK
HELL NECK
HOLLAND POINT
HORSE POINT
IRON POINT
PIANKE TANK RIVER
POND POINT
ROANÉ POINT
WILTON CREEK
WILTON POINT
FAIRFIELD LANDING
DIXIE
STAMPERS WHARF
A.J.W.
4/6/55
Cartographic Branch

4 March 1957

Chief, Photogrammetry Division

Review of Shoreline maps, Project 27350 (Potomac River)

It is my understanding that the project instructions call for the compilation of any new roads or road realignments in the project area, but that compilation has actually been limited to shoreline and signals for hydrographic support and has not covered any interior details.

In view of the press of work now on hand, I do not think that we should compile additional information on these maps. If such is needed for a chart revision, Mr. Brooks' Unit can take care of it as a chart correction job.

In reviewing the project, please be concerned only with the shoreline and information for hydrography and ignore the omission of interior details.

L. W. Swanson, Chief, Photogrammetry Division

May 1952
REVIEW REPORT T-11060
Shoreline Survey
5 March 1957

62. Comparison with Registered Topographic Surveys

<table>
<thead>
<tr>
<th>Survey Number</th>
<th>Scale</th>
<th>Year(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-1100</td>
<td>1:20,000</td>
<td>1869</td>
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<tr>
<td>T-2869</td>
<td>&quot;</td>
<td>1907-1908</td>
</tr>
<tr>
<td>T-2870</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>T-8341</td>
<td>&quot;</td>
<td>1942-1946</td>
</tr>
</tbody>
</table>

The manuscript delineates shoreline only and was prepared to establish signals for hydrography. Inshore revision of nautical charts is not possible.

63. Comparison with maps of other agencies

USGS Wilton, Virginia quad 1:24,000 1946

The base for this quadrangle was T-8341.

64. Comparison with Contemporary Hydrographic Surveys

8081 November 1953

The shoreline, as compiled, was accepted without change by the hydrographer.

65. Comparison with Nautical Charts

<table>
<thead>
<tr>
<th>Chart Number</th>
<th>Scale</th>
<th>Edition</th>
<th>Date</th>
<th>Revised</th>
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<tbody>
<tr>
<td>Chart # 1223</td>
<td>1:80,000</td>
<td>5th</td>
<td>8/22/55</td>
<td>8/27/56</td>
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<tr>
<td>Chart # 534</td>
<td>1:40,000</td>
<td>3rd</td>
<td>7/2/51</td>
<td>10/31/55</td>
</tr>
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</table>

66. Map accuracy

For the purpose of establishing hydrography, the manuscript was evidently of sufficient accuracy as no difficulties were encountered by the hydrographer.

The national standards of map accuracy cannot be guaranteed due to the unsatisfactory photo coverage and lack of control. (See the photogrammetric plot report). The planned accuracy test by stereoplanigraph was never accomplished in this area.

The junction of the manuscript with T-11209 was not perfect and minor correction was necessary. T-11209 was compiled with more recent photography than this manuscript.

The manuscript conforms with the project instructions as amended.

Reviewed by:

Hammond Rau
Approved:

Le Laude
Chief, Review Section
Photogrammetry Division

Chief, Nautical Chart Branch
Division of Charts

Chief Photogrammetry Division

Chief, Division of Coastal Surveys

998