

10672

Original

77-6 2784 ✓

Diag. Cht. Nos. 77-6 and 78-4.

10672
22901

Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY DESCRIPTIVE REPORT	
Type of Survey	Planimetric
Field No.	Ph-161
Office No.	T-10672
LOCALITY	
State	Maryland
General locality	Potomac River
Locality	St. George Island
<u>195555-1959</u>	
CHIEF OF PARTY James P. Randall, Chief of Party W. E. Randall, Baltimore District Officer	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

T -10672

Project No. (II): Ph-161 Quadrangle Name (IV):

Field Office (II): Leonardtown, Maryland Chief of Party: James P. Randall

Photogrammetric Office (III): Baltimore, Maryland Officer-in-Charge: William E. Randall

Instructions dated (II) (III): 9/16/57, 73/rab Copy filed in Division of
Ltr. from Chief, Photo. Div. 7/23/58, 73/rrj Photogrammetry (IV)

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000 Stereoscopic Plotting Instrument Scale (III): 1:6,000
(Pantograph Ratio 3/5)

Scale Factor (III): 1.000

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV):

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW
~~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): 4000 YARD REAR RANGE, 1919

Lat.: 38° 06' 54.652" (1685.0 m) Long.: 76° 28' 46.689" (1137.3 m) Adjusted
~~Unadjusted~~

Plane Coordinates (IV): State: Maryland 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.

DESCRIPTIVE REPORT - DATA RECORD

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

DESCRIPTIVE REPORT - DATA RECORD

- 4 -

Field Inspection by (II):	J. P. Randall R. S. Tibbetts, M. A. Stewart G. F. Wirth - - - - -	Date: June to September 1958
Planetable contouring by (II):	Inapplicable	Date: 12/30/59

Completion Surveys by (II):	Date:
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Mean High Water Location (III) (State date and method of location): 1958 field inspection on 1955 photography. Minor changes made in office with 1958 photography.

Projection and Grids ruled by (IV):	P. J. Dempsey	Date: 11/13/58
Projection and Grids checked by (IV):	R. D. Shoup	Date: 11/13/58
Control plotted by (III):	D. M. Brant	Date: 3/6/59

Control checked by (III):	J. C. Richter	Date: 3/6/59
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Radial Plot or Stereoscopic Control extension by (III):	W. Kuncis	Date: May 1959 2/25/60 (Rerun)*
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Stereoscopic Instrument compilation (III):	Planimetry J. D. Richter	Date: 1/15/60
	Contours	Date:

Manuscript checked scribed by (III):	C. A. Lipscomb	Date: 8/25/61
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Photogrammetric Office Review by (III):	E. L. Williams	Date: 1/4/61
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Elevations on Manuscript checked by (II) (III):	Date:
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*No change in pass points from May 1959 bridge that affect compilation.

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&GS cameras "W" & "S" - 6" focal length.

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide
		Time (EST)			
55-W-2351	11/12/55	1250		1:30,000	1.6' above MLW
2361	"	1302		"	1.6' " "
2399A	"	1357		"	1.2' " "
2400	"	1358		"	1.2' " "
58-S-6400	8/5/58	1321		"	0.6' above MLW

Tide (III)
(From Predicted Tables)

Reference Station: Washington, D. C.
Subordinate Station: Piney Point, Maryland
Subordinate Station: Kitts Point, Maryland

Ratio of Ranges	Mean Range	Spring Range
	2.9'	3.3'
0.55	1.6'	1.8'
0.52	1.5'	1.7'

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 1
Shoreline (More than 200 meters to opposite shore) (III): 4 St. Mi.
Shoreline (Less than 200 meters to opposite shore) (III): 1 St. Mi.
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 9 Recovered: 1 Identified: 1
Number of BMs searched for (II): Recovered: Identified:
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): See paragraph 38.

Remarks:

COMPILATION REPORT
Ph-161
T-10672

The field report and the photogrammetric plot report are part of the Descriptive Report for survey No. T-10651.

31. DELINEATION

1955 photography was used for delineation with the Kelsh Plotter. Ratio prints of 1958 photography were used graphically to make some minor changes.

32. CONTROL

Vertical control is inapplicable.

Pass points established by a stereoplanigraph bridge in May 1959, were adequate as horizontal control. A rerun of this bridge in February 1960 did not change positions of pass points to affect compilation. The substitute station established in 1958 and another in 1959 for station 4000 YARD REAR RANGE, 1919, both hold in the model.

33. SUPPLEMENTAL DATA

Final Name Standard dated 19 June 1959.

Letter regarding deletion of Naval Reservation boundaries, which is part of the Descriptive Report for survey No. T-10665.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage is complete.

35. SHORELINE AND ALONGSHORE DETAILS

All shoreline details are from field inspection on 1955 photography except for a change in the MHWL west of station TOWER, 1959 at Deep Point. This change was delineated from 1958 photography.

36. OFFSHORE DETAILS

St. George Bar could not be delineated from the photographs. Thirteen (13) range markers on the west side of St. George Island are single pile structures erected by the Navy, but now abandoned and no longer maintained.

37. LANDMARKS AND AIDS

Forms 567 were submitted 14 March 1960, for one (1) landmark and nine (9) aids to navigation.

Theodolite cuts to these nine (9) aids were taken from photo points, the positions of which were established by the May 1959 stereoplanigraph

bridge of strip 23. These cuts did not agree with the photogrammetric position of three of the lights. See attached correspondence: CAPT Swanson's letter dated 16 July 1959 and CDR Deane's letter dated 21 July 1959.

However, another stereoplanigraph bridge of the same strip was run in February 1960. This new bridge changed the position of a few of the photo points from which the theodolite cuts had been taken. The most critical photo point changed was photo point 72-1. As a result the theodolite cuts now confirm the photo position of the three lights in question; namely:

- St. George Creek Lt. 6 (T-10666)
- St. George Creek Lt. 3 (T-10666)
- St. George Creek Lt. 2 (T-10672)

38. CONTROL FOR FUTURE SURVEYS

No recoverable topographic stations were established. An incomplete copy of this survey, showing the shoreline was furnished the hydrographic party. Also, office ratio photographs were prepared for their use. Photo hydro signals are part of the hydrographic data.

39. JUNCTIONS

Satisfactory junctions have been made as follows:

- North with survey T-10666.
- East with survey T-10673, all water.
- South, no contemporary survey - all water.
- West with survey T-10671 - all water.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. BOUNDARIES

The government property shown on photograph 55-W-2351 on St. George Island has been sold to private individuals. A letter dated 17 August 1960 concerning the sale of property is included with the report for survey T-10665.

42. through 46.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

A.M.S. St. George Island, Md., Va., scale 1:25,000 sheet 5760 III SW revised 1946, 3rd edition 1949, which is based on Bureau survey T-8147 (1942) scale 1:20,000.

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 557, scale 1:40,000, 7th edition, November 7, 1960.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted
January 4, 1961

E. L. Williams
E. L. Williams
Carto. (Photo.)

Approved and forwarded

William E. Randall

William E. Randall
CDR, C&GS
Baltimore District Officer

PHOTOGRAMMETRIC OFFICE REVIEW

T. 10672

1. Projection and grids Edw 2. Title Edw 3. Manuscript numbers Edw 4. Manuscript size Edw

CONTROL STATIONS

5a. Classification label Edw

5. Horizontal control stations of third-order or higher accuracy Edw 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) Edw 7. Photo hydro stations — 8. Bench marks —
9. Plotting of sextant fixes Edw 10. Photogrammetric plot report Edw 11. Detail points Edw

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline Edw 13. Low-water line — 14. Rocks, shoals, etc. Edw 15. Bridges Edw 16. Aids to navigation Edw 17. Landmarks Edw 18. Other alongshore physical features Edw 19. Other along-shore cultural features Edw

PHYSICAL FEATURES

20. Water features Edw 21. Natural ground cover Edw 22. Planetable contours — 23. Stereoscopic instrument contours — 24. Contours in general — 25. Spot elevations — 26. Other physical features Edw

CULTURAL FEATURES

27. Roads Edw 28. Buildings Edw 29. Railroads — 30. Other cultural features Edw

BOUNDARIES

31. Boundary lines Edw 32. Public land lines —

MISCELLANEOUS

33. Geographic names Edw 34. Junctions Edw 35. Legibility of the manuscript Edw 36. Discrepancy overlay — 37. Descriptive Report Edw 38. Field inspection photographs Edw 39. Forms Edw

40. E. L. Williamson Reviewer Henry J. Reichert 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:

NOTES TO HYDROGRAPHIC PARTY

T-10672 & T-10673
Project Ph-161

T-10672

①

The field party identified Island Creek Channel Light 1 as LITE, 1958 on photograph 55-W-2351. The position falls 32 mm. SE of the position determined by theodolite cuts in 1958. The 1959 Light List shows the establishment date of 1956 for this aid. It is believed that the identified position is a duck blind and should be ignored. Verification is requested.

②

The delineation of St. George Island Bridge and the details in the vicinity were done from planetable sketches furnished by the field party on photograph 55-W-2399. Recent photography showing this bridge was not available at the time of compilation.

③

No field data was furnished for landmark TOWER (Chart 557) on the south end of St. George Island. Office identification was not positive and no tower was delineated (T-10672). Location of this tower is required.

In addition to photo-identification (55-W-2351 and 2361), theodolite cuts from photo points were furnished for the following lights resulting in positions, with discrepancies as listed:

④

St. George Creek Lt 6 (T-10666)	0.2 mm. NNW.
St. George Creek Lt 3 (T-10666)	0.3 mm. NNW.
St. George Creek Lt 2 (T-10672)	0.7 mm. NNE

The 1959 Light List indicates that these lights were rebuilt in 1948. No reason for the discrepancy at Lt 2 can be given, other than the possibility that the light was moved between 12 November 1955 (date of photography) and July 1958 (date of theodolite cuts). The photogrammetric positions of these three lights were shown on the manuscripts.

T-10673

⑤

The Geographic Names Section has a report that the boat yard at WINNE on Smith Creek is now named "Clayton Marina". Verification is requested.

The four digit numbers on the field photographs are arbitrary numbers assigned to the pass points during the photogrammetric process and can be ignored by the hydrographic party on all manuscripts.

Several cultural features which may be of use as photo-hydro signals have been indicated by the field party and the Cartographic Branch in the Washington Office. These have been located on the manuscripts and shown with a pass point circle and a descriptive note or label.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
WASHINGTON 25, D.C.

IN REPLY, PLEASE ADDRESS THE
DIRECTOR, COAST AND GEODETIC
SURVEY, AND NOT THE SIGNER
OF THIS LETTER, AND REFER TO

NO. 73/rrj

16 July 1959

To: Baltimore District Officer
Coast and Geodetic Survey
518 East 32nd Street
Baltimore 18, Maryland

Subject: Discrepancies - Map T-10672 and T-10673
Project PH-161, North Shore Potomac

I appreciate receiving your notes to hydrographic party for maps T-10672 and T-10673, but before sending them to Photo Party 723, I want to know more about specific items, and to examine them further in this office.

We will need some of the field records that you are still using and perhaps you can answer some of my questions that are referenced to the attached copy of your notes.

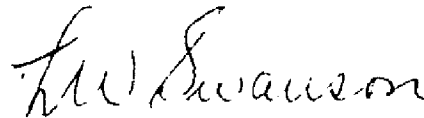
1. Did our field party locate Island Creek Channel Lt. 1 in 1958 by third order or better triangulation methods? Who made the location and who made the photo identification?
2. St. George Island Bridge appears on photographs 58-S-6398 and 6399. Our records agree that you did not have this new photography. We should have furnished it but since we failed to do so, why didn't you request it?
3. From your note, I do not know whether TOWER (Chart 557) was completely ignored by the field party or not, but I suspect Form 567 was submitted and the field party failed to make the photo identification. Please give details.
4. The 0.2 and 0.3 mm position discrepancies for location of St. George Creek Lts. 6 and 3 are a little more than we like but reasonable. The 0.7 mm discrepancy for Lt. 7 is excessive. You are correct in showing your direct photogrammetric locations and asking for field verification. The point I do not understand is why would a field party use photo points for locating lights when the lights are visible on the photographs.

Baltimore District Office

16 July 1959

5. The Geographic Names Section supposedly furnishes only final geographic names for compilation; apparently this is not the case and I want to see how and why they presented a disputed name to a compilation office. Many of our shoreline and planimetric maps are not field edited and I do not understand why a disputed name was furnished to a compilation office for verification.

We have experienced various difficulties with the north shore of Project PH-161. I am especially interested in solving all discrepancies and problems you may encounter before hydrography. Photo Party 723 is working in the area and will do any additional field work that may be required, if you will inform us of the requirements.



L. W. Swanson, Chief
Photogrammetry Division

Enclosure

Baltimore District Office
518 East 32nd St.,
Baltimore 18, Maryland

21 July 1959

To: Chief, Photogrammetry Division,
Coast and Geodetic Survey
Washington 25, D. C.

Subject: Discrepancies - Map T-10672 and T-10673, Project Ph-161,
North Shore Potomac River

Reference: Letter 73/rnj, dated 16 July 1959, same subject.

The answers to your questions in reference letter follow:

1. Lt. 1 was not located by third-order or better triangulation methods. Location was made by LT J. P. Randall and photo identification by R. S. Tibbetts with the remark that the light was located by theodolite cuts from photo points as a check. (This light was built in 1956 and could not have been visible on 1955 photographs. The position identified is believed to be a duckblind.)
2. Photographs 58-S-6398 and 6399 were not indexed on project diagrams. 1958 photo coverage, other than that on project diagrams, was inadvertently overlooked until manuscript was ready for delivery to Washington.
3. No additional information other than that in the "Notes to Hydrographic Party" is available for TOWER (Chart 557). It is noted that a photo hydro point was identified near the location of the tower and it is possible that TOWER no longer exists. If so, a Form 567 for deletion of this landmark is not available. In addition, Form 567 for 14 fixed aids and 2 landmarks in this immediate area were not received. These 14 aids and 2 landmarks were field identified.
4. St. George Creek Lts. are described in Light List as "Daymark on Pile" and as such appear as a small white dot on photographs. The photographs show numerous white dots in the area, any one of which could be misidentified for these lights and the field man realizing this, evidently cut them in from photo points for checking photo location.
5. The geographic names standard on AMS quadrangle St. George Island, Md.-Va., 1:25,000 scale indicates the location of the name Clayton Marina and not underlined in red as approved, with the following note: "There is a report that this is now Clayton Marina. Can field party verify?".

William F. Deans,
CDR, USN
Baltimore District Officer

~~NON-FLOATING AID~~ LANDMARKS FOR CHARTS

Baltimore, Maryland 14 March 1960

TO BE CHARTED
~~TO BE BELIEVED~~ STRIKE OUT TWO

I recommend that the following objects which have ~~(100/100)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(100/100)~~ the charts indicated.

The positions given have been checked after listing by Joseph U. Vonacek

William L. Hardall Chief of Party.

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE*		LONGITUDE*							
				D. M. METERS	''	D. P. METERS	''						
TANK	MARYLAND	(△) CR. WARE CITY WATER TANK, 1912)	38 22	15.659	76 26	03.877	U.S.A. TRIANG. 1927	JUNE 1958	X			101, 557	
TANK		STOOL, orange and white ht = 89(99)	38 08	54.59	76 26	18.36	1890	6/26/58	X			0	
TOWER		STOOL - RANGE ht = 54(63)	38 06	54.76	76 28	25.61	1-10666	12/30/59	X			0	
						624	1-10672					0	

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. Revisions shall show both the old and new positions. 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.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE RECHARTED~~
~~TO BE DELETED~~

STRIKE OUT TWO

Daltimore, Maryland 14 March 1960

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

The positions given have been checked after listing by Joseph W. Vonasek

William E. Randall Chief of Party

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				METHOD LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED	
				LATITUDE*		LONGITUDE*								DATUM
				D. M. METERS	"	D. P. METERS	"							
MD	Priesto Point Light			38 08	76 26	1925	1016	H.A. 1927	7-10666	7/58	X		101, 557	
MD	Katte Point Light 1			38 06	76 24	1865	165		T-10673	"	X		"	
MD	Smith Creek Light 2			38 06	76 24	235	28.44			"	X		"	
MD	Iceland Creek Channel Light 1			38 06	76 27	11.32	1176			7-10672	12/30/59	X		
MD	Iceland Creek Channel Light 3			38 06	76 28	31.05	2.94			"	7/7/58	X		
MD	Iceland Creek Channel Daybeacon 4			38 06	76 28	958	71			"	"	X		
MD	Iceland Creek Channel Daybeacon 5			38 06	76 28	32.87	3.57			"	"	X		
MD	Iceland Creek Channel Daybeacon 6			38 06	76 28	1001	87			"	"	X		
MD	Iceland Creek Channel Daybeacon 7			38 06	76 28	31.05	4.60			"	"	X		
MD	Iceland Creek Channel Daybeacon 8			38 06	76 28	958	117			"	"	X		
MD	Iceland Creek Channel Daybeacon 9			38 06	76 28	32.76	4.43			"	"	X		
MD	St. George Creek Light 2			38 07	76 27	1010	108			"	"	X		
MD	St. George Creek Light 3			38 07	76 28	32.08	6.12			"	"	X		
MD	Lt. George Creek Light 6			38 06	76 29	969	169			"	"	X		
MD				38 07	76 27	30.44	27.07			"	12/31/59	X		
MD				38 07	76 28	53.35	1390			"	"	X		
MD				38 06	76 29	1645	55.56			T-10666	12/31/59	X		
MD				38 06	76 29	3.03	1351			"	"	X		
MD				38 06	76 29	112	20.49			"	12/31/59	X		

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. Revisions shall show both the old and new positions. 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.

* TABULATE SECONDS AND METERS

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

NONFLOATING AIDS ON ~~NAVY~~ MARKS FOR CHARTS

TO BE CHARTED ~~TO BE REVIEWED~~ ~~NO BE DELETED~~ STRIKE OUT TWO
 Deltamore, Maryland 10 March 1960

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

The positions given have been checked after listing by Joseph U. Vonasek

William E. Randall, Chief of Party.

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				METHOD LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE*	LONGITUDE*		DATUM						
		D.P. METERS		D.P. METERS									
		/		/		/							
MD	St. George Creek Light 8			38 08	76 29	106.78	N.A. 1927	Photo	12/31/59	X			101, 557
MD	St. George Creek West Channel Light 1			38 08	76 30	16.14			7/2/58	X			
MD	St. George Creek West Channel Daybeacon 4			38 08	76 30	9.49				X			
MD	St. George Creek West Channel Daybeacon 5			38 08	76 30	7.80				X			
MD	St. George Creek West Channel Daybeacon 7			38 08	76 29	56.54				X			
MD	St. George Creek West Channel Junction Light			38 08	76 29	137.7		P-10666		X			
MD						14.37				X			
MD						133.5				X			

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. Revisions shall show both the old and new positions. 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.

* TABULATE SECONDS AND METERS

48. Geographic Names:

Ball Point

Deep Point

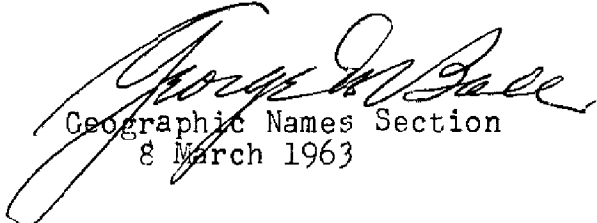
Indigo Point
Island Creek

Jimmy Island

Potomac River

Russell Point

St. George Bar
St. George Creek
St. George Island
St. George Island Beach
St. Marys River


Geographic Names Section
8 March 1963

REVIEW REPORT
OF PLANIMETRIC MAPS
T-10658 thru T-10660, T-10665 thru T-10667,
T-10672 and T-10673

April 1963

61. General Statement

These are eight (8) planimetric maps of project PH-161, Lower Potomac River, Md. and Va. These maps were prepared to furnish shoreline and control for hydrographic surveys and base maps for nautical charting.

62. Comparison with Registered Topographic Surveys

T-8137	1:20,000	1943
T-8138	1:20,000	1943
T-8139	1:20,000	1943
T-8147	1:20,000	1943

These surveys agree with subject manuscripts as well as could be expected under consideration of the time interval. Only minor differences exist between the surveys of 1943 and subject manuscripts and are to supersede above listed registered surveys of common area and detailing for nautical charting purposes.

63. Comparison with Maps of Other Agencies

Piney Point, Md.	1:24,000	U.S.G.S.	1943
St. Marys City, Md.	1:24,000	U.S.G.S.	1943
St. George Island, Md.	1:24,000	U.S.G.S.	1943

There are minor cultural and shoreline differences but in general the agreement is good.

64. Comparison with Contemporary Hydrographic Surveys

H-8547	1:10,000	1960
H-8548	1:10,000	1960
H-8550	1:10,000	1960

Shoreline and control of subject surveys was furnished prior to hydrography and as no changes of importance have been made there is good agreement.

65. Comparison with Nautical Charts

558 1:40,000 Nov. 1962

There are only minor differences between the chart and the manuscripts.

66. Adequacy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the required accuracy for Nautical Charting.

Submitted by:

L. C. Lande
L. C. Lande

Approved by:

Charles Hrenner Louis G. Taylor
Chief, Cartographic Branch Chief, Nautical Charts Division

John G. ... 6/18/63 Thomas G. Conely
Chief, Photogrammetry Division Chief, Operations Division

