

8544

Diag. Cht. No. 77-5

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey AIR PHOTO COMPILATION

Field No. _____ Office No. T-8544

LOCALITY

State MARYLAND

General locality PATUXENT RIVER

Locality ST. LEONARD CREEK

Project CS-307

194 3.

CHIEF OF PARTY

R. L. Schappe

LIBRARY & ARCHIVES

DATE Mar 14 - 1951

B-1870-1 (1)

8544

DATA RECORD

T- T-8544

Quadrangle (II):

Project No. (II): CS-307

Field Office:

Chief of Party: Ray L. Schoppe

Compilation Office:
Washington, D. C.R. W. Knox
Chief of Party: K. T. AdamsInstructions dated (II III):
August 26, 1943; Sept. 4, 1943Copy filed in *Div. of Hydrography*
Report No. ~~7~~ (VI)Completed survey ^{compiled} ~~prepared~~ in office: *Oct, 1945*Reported to Nautical Chart Section: *Oct, 1945*Reviewed: *Sept. 16, 1949* Applied to chart No. 553 Date: *9-9-49*Redrafting Completed: *Dec, 1949*Registered: *February 7, 1951* Published: *1-22-51*

Compilation Scale: 1:10,000

Published Scale: 1:10,000

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927

Datum Plane (III): ~~Mean Sea Level~~
MHW

Reference Station (III): Point Farm 1934, r. 1942

Lat.: 38° 23' 31.869" ✓ Long.: 76° 30' 25.226" ✓
(982.6m) (612.2m)Adjusted
~~Unadjusted~~State Plane Coordinates (VI): *Maryland*X = ~~To be added to plates during~~ Y =
~~smooth drafting.~~

Military Grid Zone (VI) Not shown

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
12527	11-27-42	2:32	1:10,000	0.72 Above MLW
12528	11-27-42	2:33	1:10,000	0.73 Above MLW
12529	11-27-42	2:34	1:10,000	0.73 Above MLW
12535	11-27-42	2:47	1:10,000	0.76 Above MLW
12536	11-27-42	2:48	1:10,000	0.77 Above MLW

Tide from (III): Table of predicted tides - reference stations - Baltimore, Maryland, with corrections for Solomons Island, Md.
 Mean Range: 1.2' Spring Range: 1.4'

Camera: (Kind or source) USC&GS nine-lens camera. (focal length 8 1/2 ")

Field Inspection by: Wendell Bever Jr., Topo Engr. date: Sept., 1943
 and G. O. Rector, Photo Aid

Field Edit by: Not field edited date:

Date of Mean High-Water Line Location (III):
 Same as date of field inspection

Projection and Grids ruled by (III) Washington Office date: Sept. 10, 1943

" " " checked by: Washington Office date: Sept. 10, 1943

Control plotted by: S.W. Trow, K.N. Maki date: Sept., 1943

Control checked by: S. W. Trow, K. N. Maki date: Sept., 1943

Radial Plot by: S.W. Trow, K.N. Maki date: Sept., 1943

Detailed by: G. B. Dean date: Oct. 19, 1945

Reviewed in compilation office by: L. Martin Gazik date: Sept. 19, 1949

~~Elevations on Field Edit Sheet~~
 checked by: _____ date:

STATISTICS (III)

Land Area (Sq. Statute Miles);

Shoreline (More than 200 meters to opposite shore);

Shoreline (Less than 200 meters to opposite shore);

Number of Recoverable Topographic Stations established; 75 1/2

Number of Temporary Hydrographic Stations located by radial plot;

Leveling (to control contours) - miles;

Roman numerals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

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

Remarks;

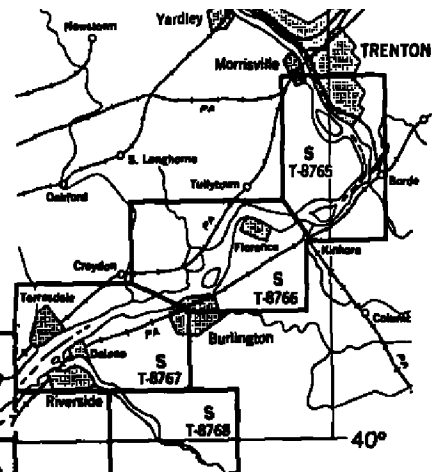
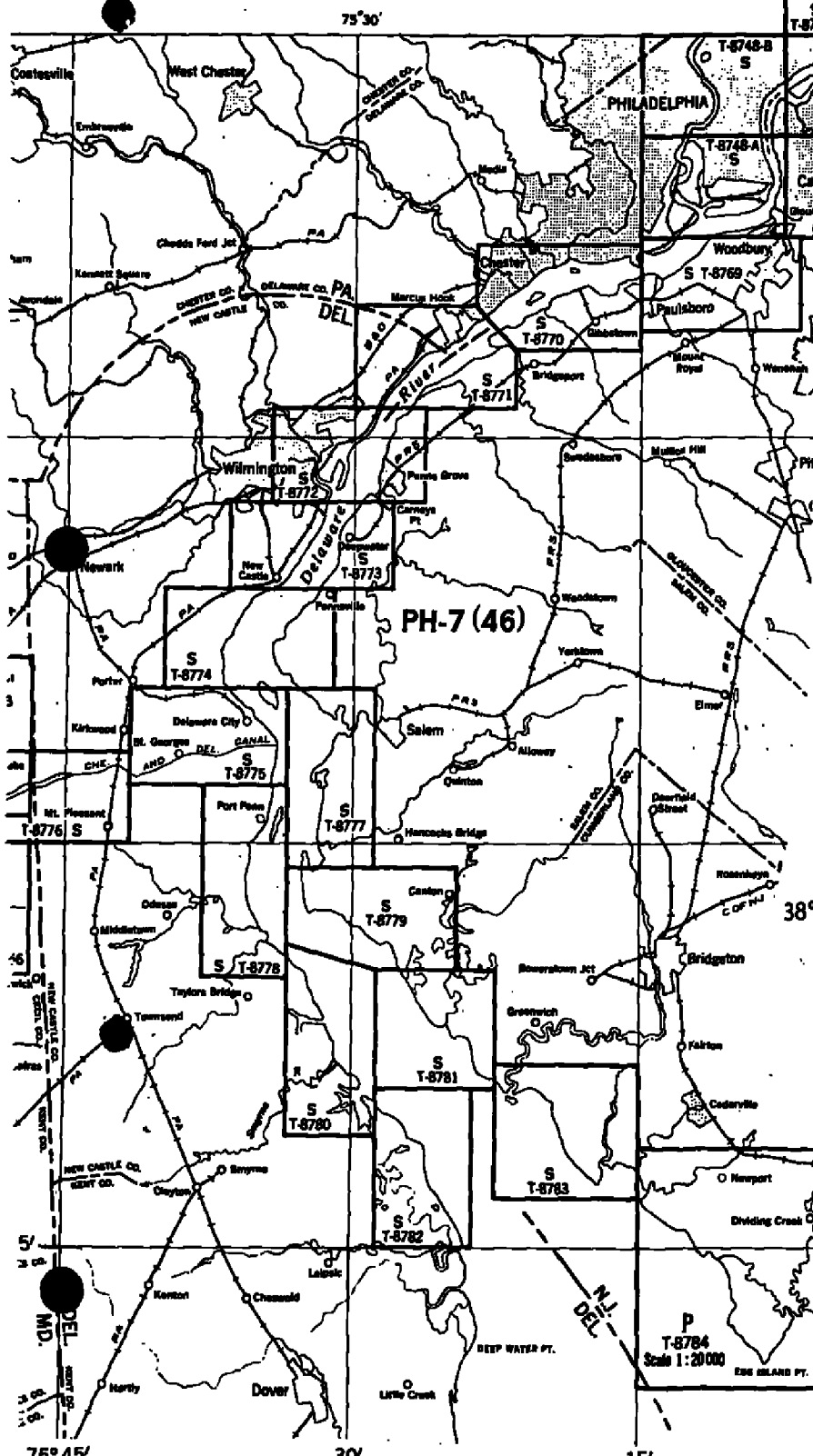
PLANIMETRIC AND SHORELINE MAPPING PROJECTS

PH-7 (46) CS-307 (43)

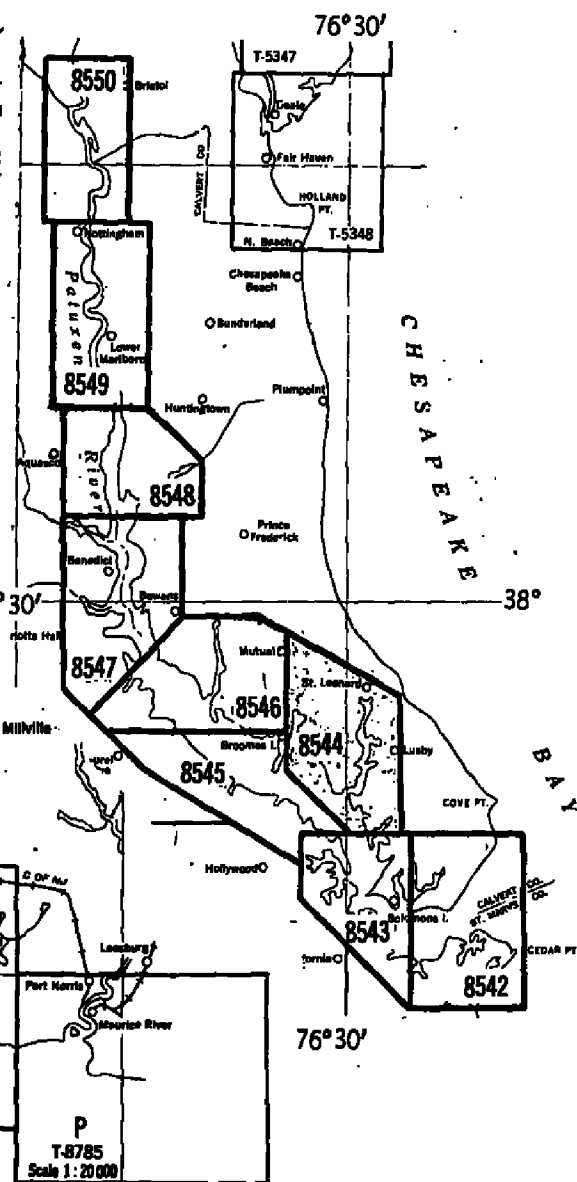
PH-7 (46) DEL - N.J. - PA., Delaware River

(P) Indicates Planimetric Survey

(S) Indicates Shoreline Survey



CS-307 (43) MARYLAND, Patuxent River PLANIMETRIC



Field Inspection

Field inspection data for the area of T-8544 are contained in the "Report on Field Inspection, Patuxent River, Maryland" by Wendell Bever, Jr., and C. O. Rector, dated Sept. 1943.

This report is filed in the Division of Photogrammetry General Files.

COMPILATION REPORT

T-8544

26. Control

The control within the limits of this Map Manuscript is summarized in the report for sheet No. T-8542.

27. Radial Plot

A main radial line plot was completed for the area covered by sheet No's. T-8542 to T-8546, inclusive.

28. Detailing

The area for the detailing for T-8544 falls within 38°21' to 38°27' North and 76°27' to 76°32' West. It joins T-8543 on the South and T-8545 on the West. The delineation is in accordance with instructions. Topographic features have been detailed from nine-lens photographs by the use of stereoscope (field inspection photographs were not located but probably most of the information has been transferred to the office copies.) The shoreline had been delineated and field checked. This was accepted, but was re-inked, because of the length of time elapsed the ink had dried and flaked off irregularly. The hydrographic stations and permanently marked stations indicated by small black circles along the shoreline were removed and the intervening shoreline filled in. The information relative to these stations and some additional information on the photographs was transferred to an Ozalid print of the shoreline (notations in blue ink). The following nine-lens photographs were used: 12526; 12527; 12528; 12529; 12530; 12535; 12536, dated November 27, 1942, time between 2:00 and 3:30PM, scale 1:10,000. Symbolization is in accordance with the recommended topographic symbols except in the case of outlined wooded areas, which were delineated in green acetate ink.

The area consists of wooded areas of deciduous and coniferous trees and brush; (the symbolization of the wooded area indicated on the photographs has been interpreted and changed to conform with a symbolization of later date) small farms, summer cottages along the shores of the water areas and a few small villages.

The streams were interpreted in the Washington office and delineated in white ink on a set of field photos. These were sent to the field for checking and parts were re-inked in blue. (See report on Field Inspection of Air Photographs by F. L. Peacock, May 10, 1945) This information was transferred to the office prints used for detailing the other features and the classification indicated has been used. (Reference is made to quadrangle "Cove Point, Md.", USC&GS, 1943.)

Insufficient overlap necessitated some detailing from the outer wings. In some areas only two cuts were possible, particularly between photographs 12525 and 12536; the area im-

mediately north of the center of Photograph 12536 was not delineated because the intersection of cuts was so indefinite as to be useless. ~~Photograph 12526 was used to obtain three cuts and an additional piece of acetate used to locate the center. The triangles formed by cuts from Photographs 12526, 12527 and 12536 were too great. The exact accuracy in this area is somewhat questionable.~~

A list of the names used is attached. These were taken from two overlays - one of quadrangle "Leonardtown, Md.", Ed. 1939, USGS, and "Drum Point, Maryland, Ed. 1905, reprinted 1943, and from USC&GS quadrangle "Cove Point, Maryland", 1943, road numbers and names from State Roads Commission, highway map, "Calvert County, Maryland," 1937.

29. Supplemental Data

No supplemental data was furnished the Compilation Office for use in detailing this Map Manuscript.

30. Mean High-Water Line

The Mean High-Water Line (firm ground) has been detailed in accordance with the data submitted by the Field Inspection Party, and shown on the Map Manuscript with a full heavy-weight black acid ink line.

The outer limits of marsh areas bordering the Mean High-Water Line have been shown on the Map Manuscript with a full light-weight black acid ink line. The light-weight line is not considered to be the Mean High-Water Line, but is only an indication of the outer limits of low wet land at Mean High-Water.

31. Low-Water and Shoal Lines

No Mean Low-Water Line or Shoal Line has been shown on this Map Manuscript.

32. Details Offshore from the High-Water Line

Lights and other offshore features indicated by the field inspection data have been shown on the Map Manuscript.

33. Wharves and Shoreline Structures

Piers, retaining walls and all other shoreline structures have been detailed in accordance with the field inspection data and shown with the conventional symbols accompanied by descriptive notes.

34. Landmarks and Aids to Navigation

There are two landmarks recommended for charting by the Field Inspection Party within the area covered by the Map Manuscript. They are:

Stack, large red brick chimney on SW end of house.

(And)

~~Tank, top and center elevated water tank on a steel structure.~~

(hub) See Review Report June 34

Form 567 is being submitted for these two land marks.

The following fixed aid to navigation was recovered by the Field Inspection Party:

Peterson Point Light.

35. Hydrographic Control

No additional hydrographic stations were located other than those established by planetable surveys.

Form 524 is being submitted for the following ¹⁴re-
coverable topographic stations: (all ~~re-established~~ ¹⁷⁴³) *Filed in*
Div. Photogr. General Files.

Gable (End) - SW gable of house
Chimney (Chim) - White painted brick chimney
~~Chimney (Twin)~~ - S end, center peak roof between twin chimneys
Chimney (Par) - S chimney on N section T shaped house
Gable (Try) - Spire, S gable house
Gable (Gab) - SE gable boathouse
Corner (Mak) - SE corner wharf
Gable (Sol) - NW gable house
Gable (Toy) - S gable barn
Gable (Got) - SW gable barn
Fence (Hen) - (End fence line and edge of bluff) Standard topographic disc.
~~Tank (Hub)~~ - Top and center water tank
Chimney (And) - Chimney on SW end house

36. Landing Fields and Aeronautical Aids

~~Spire - Spire on N. gable.~~
~~Gable - S.W. gable of boathouse.~~
There are no landing fields within the limits of this Map Manuscript and no aeronautical aids have been recommended by the Field Inspection Party.

37. Junctions

The junction to the south with T-8543 and to the West with T-8545 is in agreement.

38. Geographic Names

A geographic names investigation was made for the area of Survey No. T-8544.

Alphabetical lists of the undisputed and disputed geographic names are contained in a separate Special Report On Investigation of Geographic Names for Project CS-307. *Filed in Geographic Names Sect., Div. of Charts.*

39. Horizontal Accuracy

The probable error is believed to be within the limits of satisfactory accuracy, that is, not in excess of 0.5mm.

40. Comparison with Existing Topographic Quadrangles

Sheet No. T-8544 was compared with USGS quadrangle, "Drum Point," scale 1:62,500, surveyed in 1890, revised in 1900 and 1904, and USGS quadrangle "Leonardtown, scale 1:62,500, surveyed in 1933 - 1936. General conformation of shoreline and other detail was in fairly good agreement on the basis of a visual inspection.

The USGS quadrangles have been superseded by the 1944 U.S.E. quadrangle, "Solomons Island", scale 1:31,680 and the 1943 U.S.E. quadrangle, "Cove Point", scale 1:31,680. These two quadrangles cover the area of the Map Manuscript only as far west as longitude 76° 30'.

The comparison with the U.S.E. quadrangles was favorable.

41. Comparison with Nautical Charts

Sheet No. T-3544 was compared with Chart No. 553, scale 1:40,000, latest print date 8/11/45. A visual inspection was made due to the small scale of the chart. The chart was found to compare favorably with the Map Manuscript.

Respectfully submitted


K. N. Maki

Approved by


L. C. Lande

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

STRIKE OUT ONE
TO BE CHARTED
TO BE DELETED

LANDMARKS FOR CHARTS

M. V. COWIE

February 21, 1944

I recommend that the following objects which have ~~have not~~ been inspected from seaward to determine their value as landmarks, be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing.

Thomas B. Reed	Chief of Party.
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GENERAL LOCALITY	NAME AND DESCRIPTION	POSITION						METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		LATITUDE		LONGITUDE		DATUM							
		°	'	°	'								
CHY STACK, large red brick chy. (And) S.W. end house TANK, top & center, elev. water (Hub) tank on steel structure	38 23	21.340 658	76 30	25.277 614	N.A. 1927			1948	x			539	
	38 22	1757	76 29	914	"								
See Form 567, Sept 19, 1949, recommending deletion of this item. (included in trip report)													

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." 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.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

BTRIKE OUT ONE

September 19, 1949

I recommend that the following objects which have *(have not)* been inspected from seaward to determine their value as landmarks be charted on *(deleted from)* the charts indicated.

The positions given have been checked after listing by T. M. Gartzik

S. V. Golovtsov

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating*

GEOGRAPHIC NAMES

Survey No. T-8544

(Planimetric)

1	Name on Survey	A	B	C	D	E	F	G	H	K	
	Maryland									US&B	1
	St. Marys County									"	2
	Calvert County										3
	Patuxent River										4
	MD. No. 2	and	No. 505 Coster Road								5
	MD No. 265										6
	MD. No. 266	✓	Sollers Wharf Road (not Soller)								7
	Turner Cove	✓	(not Turners)								8
	Setterley Wharf	✓									9
	Hellen Creek	and	<u>St. Paul Branch</u>								10
	Mill Bridge Road										11
	St. Johns Church										12
	Lusby									US&B	13
	Mears Creek										14
	Mears Cove										15
	St. Leonard Creek										16
	Sollers									US&B	17
	Rodney Point										18
	Sollers Cove										19
	Grapevine Cove										20
	Rollins Cove										21
	Breedens Point										22
	Johns Creek										23
	Mosley Branch	✓	Goldstein Branch - Laveel Branch								24
	Brooms Island										25
	Planters Wharf										26
	Planters Wharf Creek										27

M 234

GEOGRAPHIC NAMES

Survey No. T8544

#2 Name on Survey

	A	B	C	D	E	F	G	H	K	
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
✓. <u>Grovers Creek</u>				(not Groves)						1
✓. <u>Egypt Cove</u>										2
✓. <u>Vietchs Cove</u>										3
✓. <u>Quarter Cove</u>										4
✓. <u>Mackall</u>									usNB	5
✓. <u>Petersons Point</u>				(not Peterson)						6
✓. <u>Wallville</u>										7
✓. <u>Wallville School</u>		not shown								8
✓. <u>St. Lukes Chapel</u>				(at symbol on Md. 265)						9
										10
										11
										12
										13
										14
										15
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										21
										22
										23
										24
										25
										26
										27

Names underlined
in red are approved
9-19-49. L. Heck

Names checked
and approved

2-15-50
anj. w.

Review Report
Planimetric Manuscript T-8544
September 19, 1949

28 Detailing

Numerous changes were made throughout the manuscript, particularly, to planimetry.

34 Landmarks and Aids to Navigation

Form 567 has been submitted recommending the deletion of TANK (HUB) 1943. It does not appear from stereoscopic examination of photos 12529, 08921, and 08922, that the elevated tank was "Pricked direct" as claimed, although it may have been erected at a later date than the date of the photographs.

39 Field Inspection and Special Report

A Field Inspection Report, dated 1943, by R.L. Schoppe, and a Special Report, dated May 10, 1945, by F. L. Peacock, are filed separately in the files of the Division of Photogrammetry.

43 Comparison with Contemporary Hydrographic Surveys

H-6877	1:10,000	1944
H-6878	1:20,000	1943

The shoreline on the above surveys was taken from this and adjoining manuscripts T-8546, T-8545, and T-8543 before complete compilation and prior to this review during which some minor changes were made.

44 Comparison with Previous Topographic Surveys

T-812	1:10,000	1860 (Revised 1908)
T-2861	1:20,000	1908
T-6961C	1:10,000	1943

T-6961C contains only a few hydro signal positions in the area of this manuscript.

45 Comparison with Nautical Charts

Chart 539	1909 (Corr. to Jan. 1948)
Chart 553	1942 (Corr. to Oct. 1948)

Shoreline differences were noted between this map manuscript and the above-listed charts, particularly, in the conformation of coves and creeks back from the PATUXENT RIVER.

46 Adequacy of Manuscript

The compilation is adequate.

Reviewed by:

L. Martin Gazik
L. Martin Gazik

APPROVED BY:

L. V. Serffitch
Chief, Review Section F. N. M.

H. R. Edmonson
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Division of Photogrammetry

W. H. Greenleaf
Chief, Div. of Coastal Surveys
B. H.

NAUTICAL CHARTS BRANCH

SURVEY NO. 78544

Record of Application to Charts

[illegible]

M-216B-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.