

# 8343

Diag'd. on Diag. Ch. No. 78-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Topographic Quadrangle

Field No. CS-289-X Office No. T-8343

### LOCALITY

State Virginia

General locality North of Rappahannock River

Locality Kilmarnock

1944-'45

CHIEF OF PARTY

R.L.Shoppe

LIBRARY & ARCHIVES

DATE November 9, 1948

B-1870-1 (1)

# 8343



## DATA RECORD

T- 8343

Quadrangle (II): Fleets Bay ( $7\frac{1}{2}'$ ) U.S.C. & G.S.

Project No. (II): CS-289X

Field Office: ~~Washington, D. C.~~Chief of Party: ~~K. T. Adams~~ *R. L. Schoppe*Compilation Office: Washington, D.C. Chief of Party: ~~R. W. Knox~~  
Photogrammetry Division*G. C. Tewinkle,*  
*Stereoscopic Mapping Section*Instructions dated (II III):  
February 29, 1944Copy filed in *Division of* ~~Descriptive~~  
Report No. ~~T~~ *(VI)*  
*Photogrammetry Office File*~~Completed survey received in office;~~

Survey completed in office

July 5, 1945

Reported to Nautical Chart Section;

July 5, 1945

Reviewed: *May 6, 1946*

Applied to chart No. 534

Date: 3/18/49

Redrafting Completed: \_\_\_\_\_

Registered: *10/5/49*

Published;

Compilation Scale: 1:10,000

Published Scale: ~~1:31,680~~  
*1:24,000*

Scale Factor (III): 1:00

Geographic Datum (III): N.A. 1927

Datum Plane (III): Mean Sea Level

Reference Station (III): Dime 2, 1944

Lat.:  $37^{\circ} 40' 23.141''$ Long.:  $76^{\circ} 19' 27.060''$ Adjusted  
~~Unadjusted~~State Plane Coordinates (VI): *Ua. S.*

X =

Y =

Military Grid Zone (VI) *A**Plotted M.G.M. 5/46*



PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
44-C 629-636	2/5/44	13:35	1:24,000	0.3
657-671	2/5/44	14:10	1:24,000	0.4
696-708	2/8/44	12:10	1:24,000	0.2

Tide from (III): Dividing Creek (Reference station, Hampton Roads)

Mean Range: 1.1 feet

Spring Range: 1.3 feet

Camera: (Kind or source) C&GS, Camera "C" 6" Wide angle  
Metrogon lens

Field Inspection by: R. E. Houtrouw

date: March-April, 1944

Contours by H. R. Cravat & J. K. Wilson

date: March-April, 1944

(See sketch in descriptive report T-8353

Field Edit by: for area contoured in field.)

date: Jan 13-Feb 1, 1944

*H. R. Cravat & J. K. Wilson*  
*A. L. LaFave*

Date of Mean High-Water Line Location (III): Date of Photography

Projection and Grids ruled by (III) Ruling Machine

date: October, 1944 by  
S. Rose

" " " checked by: B. R. C.

date: October, 1944

Control plotted by: A. LaFave & S. W. Trow

date: Nov., 1944

Control checked by: J. Hennighsen & S. W. Trow

date: Nov., 1944

Radial Plot by: See report on Radial plot for  
289-X-1 under 7-13 B

date:

Detailed by: Multiplex, S. W. Trow & J. P. Webb

date: Sept. 1944  
July. 1945

Reviewed in compilation office by:

date:

Manuscript  
Elevations on ~~Field Edit Sheet~~ -S. W. Trow  
checked by: against elevations -J. P. Webb  
on field photographs by: -A. LaFave

date: June, 1945

STATISTICS (III)

Land Area (Sq. Statute Miles); 24.6

Shoreline (More than 200 meters to opposite shore); 33.5 Miles

Shoreline (Less than 200 meters to opposite shore); 60.8 Miles

Number of Recoverable Topographic Stations established; None

Number of Temporary Hydrographic Stations located by radial plot;

Leveling (to control contours) - miles; 36

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: The portion north of the Rappahannock River  
in T-8342 is included on this manuscript.



## OUTLINE OF OPERATIONS

### PROJECT CS 289X

(INCLUDING QUADRANGLE T-8343)

This project, CS 289X, of which T-8343 is a part, originally was part of war mapping project CS 290 which involved the production of 7½-minute topographic quadrangles by photogrammetric methods using nine-lens photographs, but with all contouring by planetable.

In the winter of 1943-4 it was decided by the War Department that all field work would be discontinued July 1, 1944. Since the entire project CS 289 could not be completed by that date, it was subdivided and subproject CS 289X was designated as a test project for topographic mapping by multiplex. Subproject CS 289X was rephotographed with the single-lens camera,, and new instructions for field work were issued February 29, 1944. A copy of these instructions is filed in the Photogrammetric Section.

By arrangement with the War Department, field work on subproject CS 289X was started in March 1944 and continued until some time in June 1944. Commander R. L. Schoppe was in charge of the field party.

The field work accomplished prior to July 1, 1944 on this project included the identification of horizontal control, the establishment of additional horizontal control for the multiplex, the establishment of supplemental levels for the multiplex, field inspection for the clarification of photographic details, and planetable contouring of flat areas along the Rappahannock River which it was assumed could not be satisfactorily contoured on the multiplex.

As originally planned under project CS 289, this area was to have been compiled from nine-lens photographs using the existing triangulation. For control of the multiplex, it was necessary on subproject CS 289X to establish 6 additional triangulation stations and about 66 miles of third-order traverse. A report on the triangulation and a separate report on each traverse line are filed in the Photogrammetric Section.

For vertical control of the multiplex mapping of the entire project CS 289X about 298 statute miles of supplemental levels were run.

The field inspection report for the entire subproject

CS 289X is filed in the Photogrammetric Section. ✓

The planetable contouring of flat areas along the Rappahannock River was accomplished on 1:10,000 scale single-lens ratio prints. This was done to obtain a comparison with contouring on 1:20,000 scale nine-lens photographs on most of the war mapping work. The report on this contouring is contained in the field inspection report.

Compilation of five quadrangles on this project was taken up in the Washington Office in September 1944 and completed in July 1945. Operation of the multiplex was not continuous, the instrument having been taken off of productive mapping for training purposes and the personnel also interrupted on several occasions for other special work. Field edit and completion surveys will be made in 1945 by a field party in charge of Mr. Harland R. Cravat and under the direction of the Chief, Section of Topography, Division of Coastal Surveys.

/s/ B. G. Jones  
Chief, Photogrammetric Section  
July 17, 1945



# COMPILATION REPORT T-8343

26. Control. - See Compilation Report for project 289-X-1 in descriptive report for T-8353.
27. Radial Plot. - A 1:10,000 scale hand template radial line plot with single-lens photographs was used to control Multiplex strips. See compilation report T-8353 for description of radial line plot.
30. Mean High-Water Line. - Mean high-water line was indicated on 1:20,000 scale nine-lens photographs 12621 to 12623 and 12658. These nine-lens photographs were used to locate the high-water line in the Multiplex models.
31. Low-Water and Shoal Lines. - A distinct line between the shoal areas and deep water shows on the single-lens photographs. This "shoal line" was plotted with the Multiplex as an aid to the hydrographic party. This "shoal line" is not to be shown on the published quadrangle.
35. Hydrographic Control. - The following hydrographic stations were located with sextant cuts and plotted with a three-arm protractor.
  - Port Hand Shoal Light
  - Dymar Creek Flats Light
  - Jarvis Point Shoal Light
  - Haghetts Point Flats Light
  - Beacon No. 1
  - Beacon No. 2
  - Beacon No. 4
  - Beacon No. 6

*located by triangulation*  
*Cotton Patch Bar Lt. 1944*  
*Old Toms Light 1944*

*[report.]*

*Form 567 submitted to Nautical Charts, a copy of which is attached to this*

All other hydrographic stations were plotted with the Multiplex. (36)

Ark	Eek
Bab	Fac
Baz	Gin
Ben	Ham
Boa	Har
Bos	Ire
Blu	Jar
Bly	Kil
Cam	Lot
Cem	Map
Cob	Mil
Com	Pol
Dit	Rod
Doc	Ros
Dup	Sand
Dym	Sil
	Silo
	Sir
	Tank
	Var

S. W. Trow  
 Cartographer  
 28 Nov 45



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
NON-FLOATING AIDS TO NAVIGATION  
LANDMARKS FOR CHARTSTO BE CHARTED } STRIKE OUT ONE  
TO BE DELETED }

Washington, D.C.

May 7, 1946

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.

*J. V. Griffith*

Chief of Party.

GENERAL LOCALITY	NAME AND DESCRIPTION	POSITION						METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		LATITUDE		LONGITUDE									
		°	'	D. M. METERS	°	'	D. P. METERS						
	<i>Fleets Bay, Va.</i>												
	<i>Beacon No. 1 Indian Creek</i>	37	41	577	76	20	688	NA. 1927	<i>Sextant Fix</i>	1944	X		534
	<i>Beacon No. 2 Indian Creek</i>	37	41	11	76	19	1001	NA. 1927	"	"	X		"
	<i>Beacon No. 4 Indian Creek</i>	37	41	502	76	20	400	"	"	"	X		"
	<i>Beacon No. 6 Indian Creek</i>	37	41	1278	76	20	4404	"	"	"	X		"
	<i>Hughlett Pt. Flats Lt.</i>	37	43	266	76	17	1420	"	"	"	X		"
	<i>Jarvis Pt. Shoal Lt.</i>	37	43	643	76	18	600	"	"	"	X		"
	<i>Cotton Patch Bar Lt.</i>	37	40	572	76	18	616	"	<i>Triangulation</i>	<del>1927</del>	X		"
	<i>Old Toms Light</i>	37	40	1159	76	18	1416	"	"	"	X		"
	<i>Port Hand Shoal Lt.</i>	37	39	1514	76	19	1255	"	<i>Multipler</i>	"	X		"
	<i>Dymar Creek Flats Lt.</i>	37	39	1300	76	19	988	"	"	"	X		"
										<i>Listed by: M.G. Mishkin</i>			
										<i>Checked by: H.R. Brooks</i>			

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.



# GEOGRAPHIC NAMES

Survey No. T-8343

GEOGRAPHIC NAMES												
Survey No. T-8343												
1 Name on Survey		A	B	C	D	E	F	G	H	K		
<u>Virginia</u>										U.S.G.B	1	
<u>Chesapeake Bay</u>										"	2	
<u>Rappahannock River</u>											3	
<u>Lancaster County</u>											4	
<u>Whitestone District</u>		(per Census Map of Political Subdivisions, Mantua does not appear to touch this area--Lancaster Co.)									5	
<u>Northumberland County</u>											6	
<u>Wicomico District</u>											7	
<u>Middlesex County</u>		} does not apply to 8343									8	
<u>Pine Top District</u>											9	
<u>State Nos. 3, 200</u>											10	
											11	
											12	
<u>Fleets Island</u>		(names listed from south to north: many of the coves and creeks are not on quads (older USGS and USE) but on nautical chart 534 and Sec C Coast P.)									13	
<u>Windmill Point</u> <i>not on 8343</i>											14	
<u>Westland</u> <i>"</i>											15	
<u>White Marsh</u> <i>"</i>											16	
<u>Deep Hole Point</u> <i>"</i>		(feature now appears to be an island)									17	
<u>Windmill Point Creek</u>											18	
<u>Little Oyster Creek</u>											19	
<u>Oyster Creek</u>		(topography appears to be modified)									20	
<u>Foxwells</u>		(recent USBGN decision)									21	
<u>Little Bay</u>											22	
<u>North Point</u>											23	
<u>Clark Point</u>											24	
<u>Antipoin Antipoison Creek</u>											25	
<u>Harpers Creek</u>											26	
<u>Palmer</u>											27	

M 234



# GEOGRAPHIC NAMES

Survey No. T-8343

GEOGRAPHIC NAMES												
Survey No. T-8343												
Name on Survey		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			
2		A	B	C	D	E	F	G	H	K		
	<u>Fleets Island Road</u>				(part of State No. 3)						1	
	<u>Asbury Church</u>										2	
	<u>Maple Grove Church</u>										3	
	<u>Mosquito Island</u>										4	
	<u>Mosquito Creek</u>										5	
	<u>Mosquito Point</u>										6	
	<u>Antipoison Neck</u>										7	
	<u>Tabbs Creek</u>										8	
	<u>Poplar Neck</u>										9	
	<u>Ocran</u>										10	
	<u>Georges Cove</u>										11	
	<u>Ashley Cove</u>										12	
	<u>Chases Cove</u>										13	
	<u>Poplar Neck Creek</u>				Original names report approved this name: Field Edit Report recommends WINEGAR COVE (but note that one of local authorities is named Winegar)						14	
	<u>Fleets Bay</u>										15	
	<u>Dymer Creek</u>				(no Dymers: USBGN decision)						16	
	<u>Fleets Bay Neck</u>										17	
	<u>Rones Bay</u>										18	
	<u>Lees Cove</u>										19	
	<u>Hunts Cove</u>										20	
	<u>Johnson Creek</u>										21	
	<u>Pitmans Cove</u>										22	
	<u>Longs Creek</u>										23	
	<u>Grace Point</u>										24	
	<u>Kilmarnock Wharf</u>										25	
	<u>Indian Creek</u>										26	
	<u>Arthur Cove</u>										27	

M 234



## GEOGRAPHIC NAMES

Survey No. T-8343

3	Name on Survey	A	B	C	D	E	F	G	H	K		
	<u>Bells Creek</u>										1	
	<u>Byrdton</u>										2	
	<u>Henrys Creek</u>										3	
	<u>Barnes Creek</u>										4	
	<u>Bluff Point</u>										5	
	<u>Lynhams</u>										6	
	<u>Jarvis Creek</u>										7	
	<u>Dividing Creek</u>										8	
	<u>Prentice Creek</u>										9	
	<u>Kent Point</u>										10	
	<u>Jarvis Point</u>										11 -	
	<u>Jarvis Point Shoal Light</u>										12	
	<u>Ditchley</u>										13	
	<u>Hughlett Point</u>										14	
	<u>Hughlett Point Flats Light</u>										15	
	<u>Ingram Cove</u>										16	
	<u>Salt Pond</u>										17 -	
	<u>Jane Lawrence Cove</u>										18	
	<u>Harveys</u>										19	
	<u>Hardings</u>										20	
	<u>Good Luck</u>										21	
	<u>Jones School</u>	(original names report deleted Jones School)										
		(Jones School on USGS quad: Jones Runn School on manuscript)										
	<u>Hughlett Point Road</u>	(check with application on T-8354)										
	Names from original names report (name sheet upstairs):										24	
	<u>Warehouse Point</u>	(both near north edge of quad.)										25 -
	<u>Bluff Point Neck</u>	" marked on name sheet										26
											27	

M 234

# GEOGRAPHIC NAMES

Survey No. T-8343

4	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>Names from Field Edit Report:</u>										1
	<u>Waverly Cove</u>										2
	<u>Hackney Cove</u>										3
											4
											5
	<u>Other lights, if they are to be shown by name:</u>										6
	<u>Dymer Creek Flats Light</u>										7
	<u>Fort-Hand Shoal Light</u>										8
	<u>Cotton Patch Bar Light</u>										9
	<u>Old Toms Light</u>										10
											11
	<u>Bluff Point School</u>										12
											13
											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27

Names underlined in red approved  
by L. Heck on 4/24/47



FIELD EDIT REPORT

T-8343, Fleets Bay Quadrangle, (3737.5/7615/7.5)

Project CS 289-X

Harland R. Cravat, Chief Of Party

The field edit survey was made by Mr. Aziel LaFave, Photogrammetric Engineer, from January 13, 1946 to February 1, 1946 in accordance with the Director's Field Edit Instructions dated August 24, 1945. During this time, vertical accuracy tests were made.

46. Methods

The field edit man rode in a truck or walked over every road in the quadrangle, excluding a few woods roads. Geographic names were checked with posted signs and local residents. Political boundaries were checked with local residents and the county clerk of Lancaster County.

The results of the field edit survey are shown on the field edit sheet or on the discrepancy overlay. Any missing detail that could be delineated on the photographs was noted on the field edit sheet, with a number indicating on which photos it was to be found.

4. Horizontal Control

Station Fleet, 1944, was washed out of the bank on the shore line. It could still be used during this survey as a plane-table station. This information is also being submitted on Form # 526

*Station deleted from manuscript. Form 526 forwarded to Geodetic. 4/46  
M.G.M.*

6. Contours and Drainage

The contours are confined mostly to the northwest portion of the quadrangle. They follow a ridge which parallels State Road # 200. There were no major contour changes in this quadrangle.

The drainage is not part of the contour pattern as is the case with land farther from tide-water. The land adjacent to the water is dissected by many creeks, small streams, and marshes.

9. Wharves and Shoreline Structures.

Such structures apparently were very carefully checked on the field inspection. A few small piers, recently built, were added and some in poor condition were deleted.

The wharves are, in general, deteriorating very rapidly. Those not marked "Ruins" are not necessarily in good condition but are still useable at this time.



10. Details Off-shore From High Water Line.

Several duck blinds were located. *Applied MEM 4/46*

At Ditchley, one dolphin was located near the wharf. *Applied MEM 4/46*

All other detail had been added during the compilation.

11. Landmarks and Aids To Navigation.

The location of all aids to navigation was determined by plane-table cuts, or directly located on the photograph covering that area.

14. Road Classification.

In 1944, roads were classified on the field inspection photographs according to instructions dated November 16, 1942. During the field edit, many roads were changed from "4" to "3" to comply with the general instructions dated June 30, 1945.

15. Bridges

There were no bridges as such in this quadrangle with the exceptions of foot bridges and one bridge in the vicinity of Lat.  $37^{\circ}41\frac{3}{4}'$  and Long.  $76^{\circ}19'$ . This bridge is in fair condition and would hold one automobile. At other stream crossings earth fills and culverts were used.

16. Buildings and Structures.

In this quadrangle and in Quadrangle T-8344, it was noted that the general condition of the houses was poorer than in other quadrangles that were done by this sub-party. In order not to delete an unduly large number of houses, they were left on the field edit sheet.

17. Boundary Monuments and Lines.

The Northumberland-Lancaster County Line was shifted from the north to the south side of St. Francis Church. At the road is an old oak tree reputed to be on the county line. *Applied 4/46 MEM.* ✓

The political subdivisions were made no farther than Magisterial Districts. The status of precincts was discussed in the Field Edit Report of Quadrangle T-8353.

There were no other discrepancies in political boundaries.

18. Geographic Names.

No maps have been consulted in the selection of these names. The only maps available to the field party were those prepared by the Virginia Department Of Highways, and the scale of those was too small to show most of these features.

The following changes or additions are recommended by the field edit party on information obtained by consulting local residents. *Applied 4/46 MEM*

1. ~~Poplar Neck Creek~~ to Winegar Cove *814 ✓*

Marshall Gaskins, Commercial Fisherman, Kilmarnock, Va.  
David Winegar, Ship Builder, Ocran, Va.  
(Whitestone, R.F.D.)



2. Add Waverly Cove

George Bussells, Pulpwood Dealer, Kilmarnock, Va.  
Earnest Webb, Std. Oil Distributor, Weems, Va.

3. Add Hackney Cove

Earnest Webb, Std. Oil Distributor, Weems, Va.  
Gordon Eubank, Merchant, Kilmarnock, Va.

4. Plum Tree Cove

This name should be deleted. The above named men are residents very familiar with this quadrangle and they never heard it referred to by that name. It is considered as a continuation of Indian Creek.

45. Comparison with Nautical Chart # 534

Aids to Navigation are satisfactory and complete. It is recommended that changes be made in geographic names in accordance with Item 18 of this report.

There are many minor changes in road location which can readily be seen on comparison with the photographs covering this area or the map manuscript of this quadrangle. Roads recommended for deletion on the quadrangle should also be deleted on this chart

47. Adequacy of Compilation

In general the compilation seems to be adequate and complete. One area is designated on the field editsheet where the compilation should be re-checked. It would seem there is not enough distance between points 1 and 2. A satisfactory check could not be made with plane-table methods.

*Checked and found all right. M&M  
4/46*

48. Accuracy Tests

There was only one accuracy test made in this quadrangle because of the small area covered by contours. This test is located at Lat 37-43' and Long 76-22'. It began at Point A and closures were made at Points B and C. The horizontal closure was 0.5mm. and vertical closure 0.3'.

The results are as follows:

18 points tested  
17 points in error less than  $\frac{1}{2}$  contour interval  
0 points in error  $\frac{1}{2}$  to full contour interval  
1 point in error over a contour interval  
94% of all points tested were within  $\frac{1}{2}$  a contour interval

49. The field edit party has requested Captain Willis Stanley Bryant, Box 385, Kilmarnock, Va. to review one of the first proof copies of this quadrangle. Captain Bryant is a retired officer of the field artillery of the regular army. He has resided within this quadrangle for eight years. He gives the impression of being very interested in this mapping and the work of the Coast and Geodetic Survey.



Respectfully submitted,

*Harland R. Cravat*

Harland R. Cravat  
Photogrammetric Engineer

*Applied & Shutter*



Division of Photogrammetry  
Review Report of  
Topographic Manuscript T-8343

During the preliminary office inspection of this manuscript, all questionable features within the area of the quadrangle were noted in red ink on a single-weight print. This discrepancy sheet was then forwarded to the field together with the necessary material for field edit. After completion of the field edit, a complete final review was made.

Paragraph numbers used in this report refer to paragraph numbers in the descriptive report.

27. Radial Plot.

Distribution of horizontal and vertical control within the limits of this manuscript is adequate. Data from the radial plot were used to supplement the multiplex work.

Due to the small area covered by contours on this quadrangle, only one vertical accuracy test was run by the field edit party. The results of this test are noted in the field edit report.

The accuracy of the planimetric and topographic features within the limits of the manuscript are believed to comply with the accuracy specified by the National Standards of Map Accuracy.

28. Detailing.

The assembled quadrangle is a metal-mounted sepia print. All of the reviewer's corrections were made in red ink on the unassembled vinylite compilations (1:10,000) and in black ink on the assembled sepia print (1:20,000).

The compilation was found to be adequate and complete by the field edit party, and only minor additions and corrections were noted. The field edit data were applied to the manuscript by the reviewer in black ink.

An overlay has been prepared to assist in the smooth drafting of the quadrangle.

44. Comparison with Existing Topographic Surveys.

This manuscript has been compared with the following earlier U.S.C. & G.S. topographic surveys and supercedes them in all common detail:

T-310	1:20,000	1850
T-2869	1:20,000	1907-8
T-2957	1:20,000	1908-9

This manuscript has also been compared with the following published quadrangles and good agreement exists considering the difference in published scale and the dates of the surveys:

USE, Kilmarnock, Va. (15')	1:62,500	1942
USGS, Kilmarnock, Va. (15')	1:62,500	1917 reprint

45. Comparison with Nautical Charts.

This manuscript has been compared with U.S.C. & G.S. Nautical Chart 534, scale 1:40,000, and good agreement exists between them except that the positions of the non-floating aids to navigation listed on form 567, attached to this report, are in disagreement.

Manuscript T-8343 has not been applied to nautical charts as of the date of this report.

Reviewed by:

Reviewed under direction of:



Michael G. Misulia  
Photogrammetrist  
6 May 1946



S. V. Griffith  
Chief, Review Section  
12 May 1947

Rereviewed by:



Howard W. Thune  
Photogrammetrist  
12 May 1947



APPROVED BY:

MJ. Jones 10/49

Technical Asst. to the Chief,  
Division of Photogrammetry

H. C. Edmonson

Chief, Nautical Chart Branch  
Division of Charts

OS Reading 11/49

Chief, Div. of Photogrammetry

WM. Seafie

Chief, Div. of Coastal Surveys

## NAUTICAL CHARTS BRANCH

SURVEY NO. 8343

### Record of Application to Charts

[illegible]

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.