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Form 504
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT
DESCINI IIVE INCI SINI
Type of Survey HYDROGRAPHIC
Field No. 1113 & 1213 Office No.
LOCALITY
- 256 7367 436
State MARYLAND
General locality CHOPTANK RIVER
Locality Dover Bridge to Todd Wharf
U <del>pper Choptank River a</del> nd Tuckshoo Creek
<u> 194 4</u>
CHIEF OF PARTY
Thos. B. Reed
LIBRARY & ARCHIVES
DATE 491 2 1915
7/12

B-1870-1 (1)

### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

### HYDROGRAPHIC TITLE SHEET

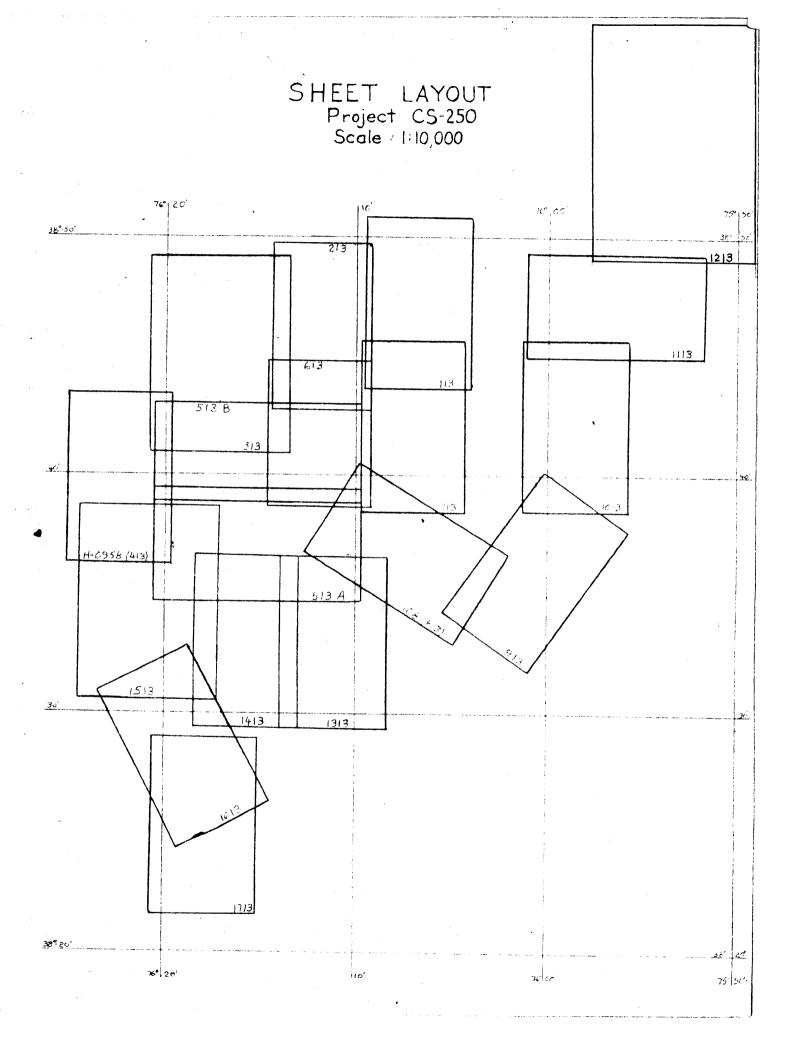
The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. H-6. 996

Field No. 1113

State	Maryland	
General locality	Choptank River	
Locality	Todd Wharf Dover Bridge to N <del>outh of Tuckhhoe Gre</del>	sk
Instructions dated	OOO Date of survey Octobe Additional Instructions: Sept. 18, 1942.	Supplemental Instruction Sept. 23, 1943
Vessel(M. \)	V. COWIE) 25 foot skiff	
Chief of party	Thos. B. Reed	
Surveyed by	John O. Phiplips	
Soundings taken by	y fathemeter, graphic recorder, hand had wirex as	ad-pole
	Be,tsy Jones	
Soundings penciled	l by	
	ethous feet at MLW MELLAY	
REMARKS: This	s sheet was processed in the Hydrographic S	section of the S.E.
District, N	Norfolk, Va.	

U. S. GOVERNMENT PRINTING OFFICE 428975



## DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SURVEYS H- 6996 & H- 6997 (Field Nos. 1113 & 1213)

Cheptank River, Dever Bridge to Tuckahee Creek, Md., and Upper Cheptank River, Tuckahee Creek to Greensbore, and Tuckahee Creek, Md.

Scale

1:10,000

Thes. B. Reed

Comdg. M. V. COWIE

This report was written prior to the processing of the smooth sheets at the Norfolk Processing Office.

- A. The project number is CS-250. The date of the Director's Additional Instructions is September 18, 1942, and the date of supplemental instructions is September 23, 1943.
- B. The general locality of these surveys is the upper part of the Cheptank River, north of Latitude 38-45.2, and Tuckahoe Creek. Field work began on October 4 and ended on October 19, 1944.

There are no contemporary surveys of the area. Sheet Field No.1113 joins with Sheet Field No. 1013 on the south. An index of sheets is included with this report.

C. All sounding was done with a 25 foot skiff powered with two outboard meters. The hydrographic party based on the M. V. COWIE which was secured alongside a bulkhoad at Williston, Maryland.

The Skiff was equipped with 808-A type depth recorder No. 65 which was used for depths greater than about 5 feet. The units were mounted in the keel of the skiff instead of a separate "fish". A pole was used for sounding in shoaler depths.

D. Pertable Automatic Tide Gages were installed on the Choptank River at Dever Bridge, (Lat. 38-45.46, Leng. 75-59.06), and Greensbero, Md., (Lat. 38-58.15, Leng. 75-48.42), and on Tuckahoe Creek at Wayman's Wharf (now in ruins) (Lat. 38-53.27, Leng. 75-56.56). At Wayamn's Wharf the hydrography was accomplished prior to establishing the tide gage. Tide staff readings are recorded in the sounding volume for the applicable days.

On Sheet 1113 all tide reducers were obtained from the gage at Dover Bridge. Direct values were used to a point about  $2\frac{1}{2}$  miles north of Dover Bridge, in the vicinity of signal ART. The point in indicated on the boat sheet. Northeast of this point a time correction of plus one-half hour and a height correction of plus 0.2 feet for high water were used.

4-6997 (1944)

On Sheet 1213 tide reducers for the Cheptank River were entered from either the gage at Greensbero of the gage at Dever Bridge. On the Cheptank River from the southern edge of the sheet to the vicinity of signal LAY at Latitude 38-52.4 reducers from both gages were used. A time correction of minus 1 hour, and high water correction of minus 0.4 feet were used for the Greensbero gage. A time correction of plus 1-hour and a high water correction of plus 0.4 feet were used for the Dever Bridge gage. Except for October 11 and 13 the reducers are from the Greensbero gage.

North of signal LAY the Greensbore gage was used with a time correction of minus ene-half hour and a high water correction of minus 0.2 foot to the vicinity of signal BUS at Latitude 38-56.2. North of signal BUS the reducers were entered direct from the Greensbore gage.

Applies only

On Tuckahoe Creek the gage at Wayman's Wharf was used to enter all tide reducers. From the mouth of the creek to the vicinity of signal RIO at Latitude 38-52.0 a time correction of minus one-half hour and a high water correction of minus 0.3 foot were applied. North of signal RIO the reducers were entered direct from the staff readings.

The points of change have been shown on the boat sheets.

In applying the corrections to high water the full value was applied in the proximity of the time of high water, the value being to zero in the proximity of low water. It was not desirable to use the ratio of ranges due to the raising and lowering of the general tide level be the wind.

F. The fellowing is the source of triangulation control stations: Crisfield to Elkton, Maryland, J. Bowie, Jr., 1934.

All topographic stations, except for several explained below, were ebtained from planimetric maps Nes. T-5811, T-5813, T-5814, T-5816, 7-57/3 and T-5817. All signals shown in green on the boat sheets were transferred from the same source.

In the vicinity of Latitude 38-51 on the Choptank River the hydrographic locations of Day Markers could not be checked and additional work was necessary to establish the necessary centrol. Day Marker No. 56 was located by a distance and direction from a "T-road" intersection, using another road intersection for an azimuth initial. A sextant and stadia traverse was then run from a topographic station along the river to Day Marker No. 56. The results of the traverse are submitted with the boat sheets but no number has been assigned to the survey.

H-6997

G. All shoreline was taken from the planimetric maps listed under paragraph "F" above. The date of the surveys is not known but is presumed to be 1941.

Corrections and additional detail have been noted on the boat sheet in red ink.

Several discrepancies were noted in the interpretation of the outside edge of the marsh of tuckahoes. The discrepancy can probably be partly explained by differences in the density of the tuckahoes from year to year. Along the east bank of the Cheptank River from Latitude 38-50.05 to Latitude 38-50.95 the tuckahoes are not especially heavy this year and a beat can be driven to the edge of the trees at moderate stages of the tide. This change has been noted on the boat sheet. A change of the opposite nature was noted at signal PIT on Tuckahoe Creek at Latitude 38-50.7, Longitude 75-55.5. Here the tuckahoes south of the signal are too dense to permit the boat to be forced through. Since the tuckahoes die during the winter and the growth sinks to the bettom it is felt that the outside of all growths of tuckahoes should not be shown as a marsh line.

H-6997

The lew-water line has been indicated on the boat sheet where possible to determine while doing hydrography. In other cases the low-water line is too near the high-water line to permit delineation by soundings.

H. Soundings were taken with an 808-A type pertable depth recorder in depths greater than about 5 feet. In shealer depths a pole was used. Due to the seft mud it was difficult to secure accurate soundings with the pole and even after increasing the area of the bettem of the pole with a tin can the pole soundings were still some times deeper than the fathemeter.

All soundings were taken on regular fathemeter spacings, the man operating the fathemeter calling out the signal to sound. The proper notations have been made in the records where changes in sounding methods occur.

Bar checks to obtain recorder corrections were made twice daily.

I. In the upper part of the Cheptank River and in Tuckahoe Creek channel, lines were run spaced as shown on the boat sheet. The time was marked when abeam the signals. In other areas three-point visual fixes were taken at  $1\frac{1}{2}$  or 2 minute intervals.

- J. The present survey is thought to be complete and adequate to supersede prior surveys for charting purposes. The junction between adjacent surveys is satisfactory.
- K. No cross lines were run in the narrow channels. In the wider part of the river adequate cross lines have been run.
- M. A generalized camparison with Chart 1225 indicates good agreement between the present survey and the chart.
- N. There are no dangers or shoals in the area covered by these surveys that one would not expect to find in the restricted waters of a river channel.
- O. Coast pilot information will be submitted on an area basis and none in included in this report.
- P. One fixed aid to navigation was relocated by sextant topography, and in addition two other aids were located by the same means. Form 567 is being submitted. The other fixed aids were located by the hydrographic party and the positions should be submitted by the compilation office.

Two power lines cross the navigable water within the limits of these surveys. The one north of Denton has a vertical clearance of 142 feet above high water, measured by a sextant angle. The power line over Tuckahoe Creek has an estimated vertical clearance of 75 feet.

A number of bridges cross the navigable waters within the limits of these surveys and they are listed below:

Bridge	idge Type Heriz. Clearance		Vertical Clearance				
Dover Bridge Denton Hwy. Denton R.R. Greensbore Hwy.	Hwy. Swing Relling lift Swing Fixed	79 ft. each opening 48 ft. 49½ ft. " " 38 ft. (center span)	10 ft. above M.H.W. 3½ ft. " " 6 ft. " " 9 ft. " "				
Tuckahoe Bridge Hillsbere Hwy.	Hwy.Retractable draw	37 fft. 9 ft.	3 ft. " " " 16 ft. " "				

)

All of the above horizontal and vertical clearances have been measured in the field. A copy of the United States Corps of Engineers "List of Bridges" was not available for comparison. The clearances were compared with the values shown on the ezalid prints of the topographic sheets and notes concerning the discrepancies found have been made on the boat sheet.

The cable crossing at Latitude 38-50.6, Longitude 75-52.1, is as shown on the ozalid print of the topographic sheet. The cable crossing at Dover Bridge still remains.

Q. Landmarks for charts are being submitted on Form 567. Following is a list of the objects within the area of these surveys:

HOUSE (CUPALS), eld
STACK (TALLEST OF TWO), cannery
HOUSE (SOUTH GABLE), white
HOUSE (CHIMNEY), white stucce
HOUSE (WEST GABLE), white, lew
HOUSE (EAST GABLE), 2-story, brown
TOWER, W. power line tower
TOWER, E. power line tower
TANK (ELEVATED)
HOUSE (GRAY), signal END
HOUSE (SPIRE), AXE
BUILDING (S.W. GABLE)

LOG CABIN (CHIMNEY)
BARN (PEAK OF ROOF), green
HOUSE (CENTER GABLE), brick
HOUSE (EAST GABLE), shingle
STEEPLE, church
BARN (EAST GABLE)
HOUSE (S.E. CHIMNEY), shingle
HOUSE (CHIMNEY), old
BOAT HOUSE (N.W. GABLE), old
WINDMILL

- R. Geographic names are considered to have been adequately covered by prior mapping surveys.
- Z. A Report on Graphic Recorder Corrections will be submitted on an area basis for the Choptank River.

Tide data for Dover Bridge, Greensbore, and Wayman's Wharf, Maryland was transmitted on November 4, 1944.

Respectfully submitted,

John O. Phillips
John O. Phillips
Lieut. (j.g.) C&GS

Approved and forwarded:

Thes. B. Reed Lieut. Comdr. C&GS

Commanding M. V. COWIE

# STATISTICS FOR HYDROGRAPHIC SURVEYS H-6947 (Field Nos. 1113, 1213) M.V. COWIE Project CS 250

Vol. No.	Day Letter	<b>D</b> ate	No. Sndgs.	No. Pos.	Sta. Miles
		Fie	ld No. 1113 H-	- 6996	1
1 1 1,2 2	a b c d	Oct. 11 Oct. 12 Oct. 13 Oct. 19 TOTALS AREA 1.1 se	239 75  314 q. mi.	68 187 78 35 368	14.6 28.0 12.5 5.0 60.1
		Fie	ld No. 1213 H-	69 <b>9</b> 7 (1944)	
1 1 2 2 2 2	<b>a</b> b c d e f g	Oct. 4 Oct. 5 Oct. 6 Oct. 9 Oct. 10 Oct. 11 Oct. 13 TOTALS AREA 2.4 se	 41 10 132 7 45 235	47 116 45 33 130 58 55 484	11.8 25.9 6.5 2.6 31.2 13.4 6.7

### APPROVAL SHEET

For Hydrographic Surveys, Field Nos. 1113 and 1213

Project No. CS-250, Choptank River, Md.

November 21, 1944

The boat sheets and accompanying records for the above surveys have been inspected and are approved. The boat sheets were examined daily while the work was in progress and the survey is believed to be complete.

Thos. B. Reed Chief of Party

## TIDE NOTE TO ACCOMPANY HYDROGRAPHIC SURVEYS H- 6996 H-6997 (Field Nos. 1113 & 1213) MVV. COWIE Project CS-250

Three tide stations were used to reduce the soundings on these surveys. They were located as listed below:

Name	Latitude and Longitude	Low-water on staff
Dover Bridge	38-45.46	1.3
	75-59.05	
Greensboro, Md.	38-58.15	1.4
•	75-48.42	
Wayman Wharf,	38-53.27	2.0
Tuckahow Creek, Md.	75-56.56	

Tide staff readings were obtained at Wayman Wharf on October 10 and 11 and are recorded in Volume 2, Sheet 1213.

On Sheet 1113 all tide reducers were obtained from the gage at Dover Bridge. Direct values were used to a point about  $2\frac{1}{2}$  miles above the bridge in the vicinity of signal ART. The point is indicated on the boat sheet. Above this point a time correction of plus  $\frac{1}{2}$  hour and a height correction of plus 0.2 for high water were used.

On Sheet 1213 tide reducers were entered from either the gage at Greensboro or the gage at Dover Bridge for soundings in the Choptank River. From the southern edge of the sheet to the vicinity of signal LAY at Latitude 38-52.4 reducers from both gages were used. A time correction of minus 1 hour, and a high water correction of minus 0.4 foot were used for the Greensboro gage. A time correction of plus 1 hour and a high water correction of plus 0.4 foot were used for the Dover Bridge gage. Except for October 11 and 13 the reducers entered in the sounding volumes are from the Greensboro gage.

North of signal LAY the Greensboro gage was used with a time correction of minus  $\frac{1}{2}$  hour and a high water correction of minus 0.2 foot to the vicinity of signal BUS at Latitude 38-56.2. North of signal BUS thereducers were entered direct from the Greensboro gage.

On Tuckahoe Creek the gage at Wayman Wharf was used to enter all tide reducers. From the mouth of the creek to the vicinity of signal RIO at Latitude 38-52.0 a time correction of minus hour and a high water correction of minus 0.3 foot were applied. North of signal RIO ther educers were entered direct from the staff readings.

The points of change have been shown on the boat sheets.

H-6997

## TIDE NOTE TO ACCOMPANY HYDROGRAPHIC SURVEYS H-699 (Field Nos. 1113 & 1213)

In applying the corrections to high water the full value was applied in the proximity of the time of high water, the value being reduced to zero in the proximity of low water. It was not desirable to use the ratio of ranges due to the raising and lowering of the general tide level by the wind.

# DEPTH RECORDER CORRECTIONS HYDROGRAPHIC SURVEYS H-6996 & H-6997 (Field Nos. 1113 and 1213) Project CS-250 1944

### Field No. 1113 H-6996

For "a", "b", "c" and "d" days, October 11, 12, 13 & 19, 1944

Gain 8	}		Gain O		
Correction	From	То	Correction	From	То
+ 0.4 + 0.2 0.0 -0.2 -0.4 -0.6	9.0 19.0 29.0 38.5 49.0	8.5 18.5 28.5 38.0 48.5	+0.2 0.0	5•0	4.5 9.0

### Field No. 1213 H-6997

For "a", "b" & "c" days	For "d", "e", Ff" & "g" days
October 4, 5, 6	October 9, 10, 11 & 13
Gain 8	Gain 8

Correction	From	To	Correction	From	То
† 0.4 † 0.2 0.0 -0.2 -0.4	5.0 16.5 27.0 37.5		+0.4 +0.2 0.0 -0.2 -0.4	18.5	8.0 18.0 28.0 38.5

For all days October 4 to 13

### Gain O

Correction	From	To
+0.4		1.5
+0.2	2.0	5.0
0.0	5.5	8.5
-0.2	9.0	12.0

## DEPTH REC ORDER

7.0 6.0 7.0 7.2

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Da <b>te</b>	Day	Volume	Soundings	Position	Statute Miles	Total Miles
10-11-44	a	1	0	<b>6</b> 8	12.8	15.0
10-12-44	b	1	239	187	24.5	29.3
10-13-44	c	1 & 2	75	78	10.9	18.2
10-19-44	d	2	0	35	4.4	6.6
		Totals	314	368	52.6	69.1

### ADDENDUM

### to accompany

### HYDROGRAPHIC SHEET H-6996 (Field No. 1113)

This is a combined report for Hydrographic Sheet H-6996 and H-6997. An addendum will be forwarded with Sheet H-6997 and should be made part of this report.

Respectfully submitted,

Isadore M. Zeskind Cartographic Engineer

Norfolk, Va. June 18, 1945

Approved & Forwarded

Paul C. Whitney
Supervisor, SE District

Please attach these correction graphs to the combined descriptive report for sheets Nos. 1113 and 1213 (Field Nos.) Project CS-250.

H-6996

H-6997

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	20						<sup>+</sup> 0.2 0.0 5.0	to 4.5 ) to 9.0
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	30	"0" Day - 00	12, "		+0.4 +0.2 9.0	to <b>48.5</b> 0 to 18.5  0 to 28.5  0 to 38.0		
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	4.5							
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	55					to graphi dates ind No. 1113 River, Do	recorder icated, on (Field) Up ver Bridge	soundings on the hydrographic survey per Choptank to the Mouth
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## FORM 712 DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY Rev. June 1937

### TIDE NOTE FOR HYDROGRAPHIC SHEET

June 27, 1945.

Division of Hydrography and Topography:

Division of Charts: Attention: H. W. MURRAY

Plane of reference approved in 2 volumes of sounding records for

HYDROGRAPHIC SHEET 6996

Locality Dover Bridge to Mouth of Tuckahoe Creek, Choptank River, Maryland.

Chief of Party: Thos. B. Reed in 1944
Plane of reference is mean low water reading
1.3ft. on tide staff at Dover Bridge
5.1ft. below B. M. 1

Height of mean high water above plane of reference is 1.7 feet.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

/	GEOGRAPHIC NAMES Survey No. H-6996		Chor.	o designs	Or Sign	, advand	indica in	or oca Made	Guide of	Mod Meroli	J.S. Light L	*/
•	Name on Survey	A	<u></u>	<u>/c</u>		D	E	F	G		/ K	_
,	Maryland_				(	for	ti tle	)			USGB	1
	Choptank River	-	ļ			17	")			ļ		2
	Dover Bridge		(loca	ti on	of t	ide	staff	)				3
	Providence Landing										ļ	4
	Kingston Landing										USGB	5
	McCarty Wharf										19	6
	Ganey Wharf	ļ							ļ	ļ	11	7
· -	Gilpin Point			ļ								8
•	Todd Wharf											9
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### Surveys Section (Chart Division)

### HYDROGRAPHIC SURVEY NO. .. ILS 398

Records accompanying survey:	
Boat sheets 1; sounding vols2;	wire drag vols;
bomb vols; graphic recorder rolls	s . 4;
special reports, etc	
	• • • • • • • • • • • • • • • • • • • •
The following statistics will be submitted rapher's report on the sheet:	with the cartog-
Number of positions on sheet	.368.
Number of positions checked	. 24.
Number of positions revised	6
Number of soundings recorded	2,208 (2pprox.)
Number of soundings revised (refers to depth only)	3
Number of soundings erroneously spaced	1
Number of signals erroneously plotted or transferred	0
Topographic details Time	2
Junctions Time	.Q
Verification of soundings from graphic record Time	./.23.
Verification by Calvin L. Kittles of total time	125. Date May 7,1946
Review by F. H. Carstens Time	26 hrs Date May 20 1946

FORM M-238

## MEMORANDUM IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT	No.	н 16996	~	received registered verified
PHOTOSTAT OF	No.	T	14.	reviewed approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience

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#### DIVISION OF CHARTS

### REVIEW SECTION - NAUTICAL CHART BRANCH

### REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6996

FIELD NO. 1113

Maryland, Choptank River, Dover Bridge to Todd Wharf Surveyed in Oct. 1944 Scale 1:10,000 Project No. CS-250

Soundings:

Control:

Pole 808 Fathometer

Sextant fixes on shore signals

Chief of Party - T. B. Reed Surveyed by - J. O. Phillips Protracted by - B. Jones Soundings plotted by - A. G. Atwill Verified and inked by - C. L. Kittleson Reviewed by - R. H. Carstens, May 20, 1946 Inspected by - H. W. Murray

### 1. Shoreline and Signals

The shoreline and topographic signals are from T-5811, T-5713 and T-5813 of 1941. Supplementary hydrographic signals were spotted from shoreline detail or located by sextant fixes recorded in the sounding volumes.

### 2. Sounding Line Crossings

Depths at crosslines are in good agreement.

### 3. Depth Curves and Bottom Configuration

The usual depth curves were satisfactorily drawn.

The bottom is relatively smooth. The channel is bordered by flats covered by  $\frac{1}{2}$  to 2 ft. of water.

### 4. Adjoining Surveys

The junctions with H-6997 (1944) on the northeast and H-6998 (1944) on the southwest will be considered when those surveys are verified.

### 5. Comparison with Prior Surveys

H-202 (1848) 1:20,000 H-1048 (1870) 1:10,000

H-202 covers the area of the present survey west of long. 75° 56' and H-1048 covers the area east of that longitude.

The geographic positions of certain parts of the river on H-1048 are in error by as much as 350 m. When depths are considered relative to their positions from the shoreline there is good agreement with the present survey.

Depths on H-202 are also in good agreement with present depths.

The present survey adequately reveals the essential information shown on these prior surveys and supersedes them within the common area.

### 6. Comparison with Chart 1225 (Latest print date 3/9/46)

### A. Hydrography

The charted hydrography originates principally with the surveys discussed in the foregoing paragraph. Supplementary critical depths are charted from the present survey before verification and review.

The charted depths are in satisfactory agreement with present depths.

### B. Aids to Navigation

The survey positions of aids to navigation are in satisfactory agreement with the charted positions and adequately mark the features intended.

### 7. Condition of Survey

The field plotting was satisfactory except that descriptive notes were not inked on the smooth sheet in accordance with paragraph 781 (d) of the Hydrographic Manual.

The sounding volumes and Descriptive Report were complete and comprehensive.

#### 8. Compliance with Instructions for the Project

The survey satisfactorily complies with the instructions.

### 9. Additional Field Work Recommended

This is a basic survey and no additional work is recommended.

Examined and approved:

Chief, Nautical Chart Branch

Chief, Chart Division

Chief, Section of Hydrography

Chief,/Division of Coastal Surveys

### NAUTICAL CHARTS BRANCH

#### 

### Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
7/21/45	1225	J Walker	Before After Verification and Review Partially
-28-49	552	Mandros	Pedno After Verification and Review
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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.

T-8250 T-8251 T-8259 T-8260 T-5811