# 7075

Diagd, on Diog. Ch. No. 77-3

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. 1513 Office No. H-7075

LOCALITY

State MARYLAND

General locality Chesapeake Bay

Locality South of Sharps Island

194 5

CHIEF OF PARTY

Thos. B. Reed

LIBRARY & ARCHIVES

DATE

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-7075

Field No. 1513

State		MARYLAND					
General locality	c	hesapeake	Bay				
Locality	·	South of S	harps I	sland			
Scale <b>1/10,</b> 0	00		Date	of survey	September-N	November 194	5
Instructions dated April 17, 1940 - September 12, 1944							
Vessel	Ship CO	WIE					
Chief of party	Thos. B	• Reed					
Surveyed by	Thos. B	. Reed, W.	H.Bainb	ridge, C.	R.Reed		~
Soundings taken	by <b>feathans</b>	<b>XXX</b> , graphic	recorde	r, <b>Kankiloka</b>	KXXXXXX		
Protracted by	A.G	.Atwill	and W.	W.Feazel			<b>.</b>
Soundings pencil	ed by _A.G	.Atwill	and W.	W.Feazel	L		
Soundings in	<b>TOWNKINGS</b>	feet at	MLW	XXXXXX			
REMARKS:							
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U. S. GOVERNMENT PRINTING OFFICE 428975

DESCRIPTIVE REPORT TO ACCOMPANY
Hydrographic Sheet H - 7075 (Field No. 1513)
South of Sharps Island, Chesapeake Bay, Maryland
Project CS 250 - 1945 - Scale 1/10,000
Thos. B. Reed, Commanding Ship COWIE
Surveyed by Thos. B. Reed, W.H. Bainbridge and C.R. Reed

A. PROJECT: The authority for this survey is contained in the original instructions for Project CS-250 dated April 17, 1940, additional instructions dated September 18, 1942 and supplemental instructions dated September 25, 1948 and September 12, 1944.

B. SURVEY LIMITS AND DATES: The survey includes an area south of Sharps Island between Latitude 38° 52.6° and 38° 57.0° and between Longitude 76° 19.0° and 76° 24.5°.

Field work began on September 5 and ended on November 2, 1945.

The survey joins contemporary surveys H 6952 on the west,
H 6958 on the northwest, Field No. 5158 on the northeast, Field
No. 1415 on the east and Field No. 1615 on the south. A H-7065

U. VESSELS AND EQUIPMENT: The Ship COWIE and Launch No. 72 were used with 808A Type Portable Depth Recorder No. 67. The launch party operated from the ship at anchor on the working grounds.

D. TIDE AND CURRENT STATIONS: A portable automatic tide gage was maintained at Taylors Island, Maryland. A time difference of mimus 50 minutes was applied to these tides.

On October 29, 30 and November 2 the Taylors Island gage was not in operation and tides from the Cambridge, Maryland standard gage are to be used. A time difference of mimus one hour and a range ratio of 0.8 is to be applied. Mean low water on the staff at Cambridge is 6.3 feet.

R. SMOOTH SHEET: The smooth sheet is to be plotted by the Norfolk Processing Office.

F. CONTROL STATIONS: Triangulation positions are from the 1934 triangulation of John Bowie, Jr.

Topographic Stations were transferred from copies of air photo topographic sheets T 5715 and T 5718.

Signals POI and REX were located by a measured distance and a sextant angle from triangulation station DOLAN 1934.

Signal WOOD was located by a measured distance and a sextant angle from triangulation station DUPOINT 1934. The data for this location were submitted with Sheet Field No. 515B (M-7043)

Hydrographic stations are indexed in Volume 1 or are located on contemporary surveys as indicated in the list of signals.

G. SHORELINE AND TOPOGRAPHY: The only shoreline on the sheet, at Sharps Island, was transferred to the boat sheet from the boat sheet for hydrographic survey H 6958.

The low water line at Sharps Island is too near the high water line to permit its delineation by soundings.

H. SOUNDINGS: Soundings were made with an 808A Type Depth Recorder from the Ship COWIE and from hydrographic launch No. 72. Bar sheeks were made twice daily to obtain necessary corrections to be applied to soundings. Settlement corrections were applied to soundings by the COWIE in accordance with tests made in the fall of 1944 and spring of 1945 and recorded in Volume 5 of hydrographic survey Field No.513A No settlement corrections were required for the launch work.

Accession of the shore line of Sheeps Island by plane to be would have been desireble but this area was being 15 and almost daily as a bombing and machine gun to the fact while the Survey was in progress.

- I. CONTROL OF HYDROGRAPHY: All sounding lines were controlled with three point sextant fixes.
- J. ADEQUACY OF SURVEY: It is believed that the survey is complete and adequate to supersede prior surveys for charting. Junctions with adjoining contemporary sheets are considered satisfactory. The junctions will likely be improved by application of final corrections to soundings.
- K. CROSSLINES: About 6 per cent of crosslines were run. The boat sheet agreement for crossings is good.
- L. COMPARISON WITH PRIOR SURVEYS: See next paragraph.
- M. COMPARISON WITH CHART: A detailed comparison with the chart has been left until the smooth sheet is completed. The boat sheet was compared with chart 1225, print date 7/17/44 and the area of the

survey shows little change.

The 10 foot sounding charted at Latitude 38° 54.4°, Longitude 76° 21.4' was verified.

Compared the second of the sec

Eight feet was the shoalest sounding obtained in the vicinity of the charted 6 foot sounding at latitude 58° 56.6°, Longitude 76° 24.3° (9ft on boat and smooth sheets. No investigation is indicated.)

- N. DANGERS AND SHOALS: No new shoals were found in this survey.
- O. COAST PILOT INFORMATION: Coast Pilot notes will be covered by a special report for the entire area.
- P. AIDS TO MAVIGATION: The only fixed navigational aid in the area of the survey is Sharps Island Light, which has been located by triangulation. (see "F" above) The positions of the floating aids (indexed in Volume 1) should be taken from the smooth sheet.
- Q. LAHDMARKS FOR CHARTS: Landmarks will be covered on an area basis.
- R. GEOGRAPHIC NAMES: All geographic names appear on adjoining sheets and are mentioned in reports for those sheets.
- OFFSHORE SIGNALS: The description of signals situated outside the w water line is given in the "List of Stations". low water line is given in the
- V. VELOCITY CORRECTIONS: Velocity corrections were obtained from the bar check curves which are made a part of this report.

Respectfully submatted:

Clarence R. Roed Clarence R. Reed, Lt.Comdr., USC&GS

Approved and forwarded:

4003 PC Thes. B. Reed, Lt. Comdr., Comdg. USC&GSS COWIE

STATISTICS FOR HYDROGRAPHIC SURVEY H - 7075 (Field No. 1513)

H7075

VOLUME	DAY	LETTER DATE	VESSEL	POSITIONS	STATUTE MILES
1	a	9/5/45	Launch 72	106	19.9
ī	ъ	9/11/45	11	80 <sup>-</sup>	14.7
1 & 2	G	9/12/45	21	177	32.3
	d	9/13/45	tr .	<b>16</b> 5	26.5
2 3 3	A	9/14/45	COWIE	221	59.8
3	В	9/20/45	ti	31	8 <b>.6</b>
3 & 4	C	9/21/45	11	96	26.3
4	D	9/25/45	, tr	100	23.7
	E	9/26/45	78	164	44.5
4 5 5	F	10/ 5/45	TF	135	34.5
5	G	10/8/45	11	123	30 <b>.</b> 6
5 & 6	H	10/10/45	11	138	38.0
6	J	10/11/45	11	116	30 <b>. 7</b>
6	K	10/16/45	11	23	5.8
7	0	10/18/45	Launch 72	176	26.6
7 & 8	f	10/19/45	11	160	22.6
8	g	10/29/45	tt	133	20.9
8	g h	10/30/45	n	170	24.0
9	L	11/ 2/45	COMIE	69	16.7
	1	To	tals	2383	506.7

Total area of hydrography: 22.5 square statute miles

TIDE NOTE FOR HYDROGRAPHIC SURVEY H - 7075 (Field No. 1513)

TIDE STATION	LATITUDE & LONGITUDE	HEIGHT OF MLW ON STAFF
TAYLORS ISLAND	38° 28.20' 76° 17.49'	3.0 feet
CAMBRIDGE	38° 34.5' 76° 04.3'	6.3 feet

For Taylors Island a time difference of minus 30 minutes was applied.

For Cambridge ( used on October 29 and 30 and November 2 when Taylors Island gage was not in operation) a time difference of minus one hour and a range ratio of 0.8 was applied.

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Triangulation Stations
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DOLAN 1934 (used for location of other signals)
DUPOINT 1934 ("""""""")
SHARPS ISLAND LIGHT 1898 (ARP)

Topographic Stations from Sheet T 5715

DAG

Topographic Stations from Sheet T 5718

HAG

Hydrographic Stations indexed in Volume 1

GET OUT (banner on fish trap) TAR

Hydrographic Stations from Sheet Field No. 1413

DOT (duck blind)

Hydrographic Stations from Sheet Field No. 1613

FISH (fish trap stake)

JAN

JOB

JUG

MES

TAX (fish trap stake)

TRAP (fish trap stake)

Stations by sextant angle and measured distance from triangulation station

From DOLAN 1934

POI

From DUPOINT 1934

WOOD

#### ADDEMDUM

#### to accompany

#### HYDROGRAPHIC SURVEY H-7075 (Field No. Co-1513)

This sheet was processed in the Hydrographic Section of the Southeastern District, Norfolk, Virginia.

? The corrections shown in red ink in the preceding part of this report were made in this office.

by the Reviewer

Respectfully submitted

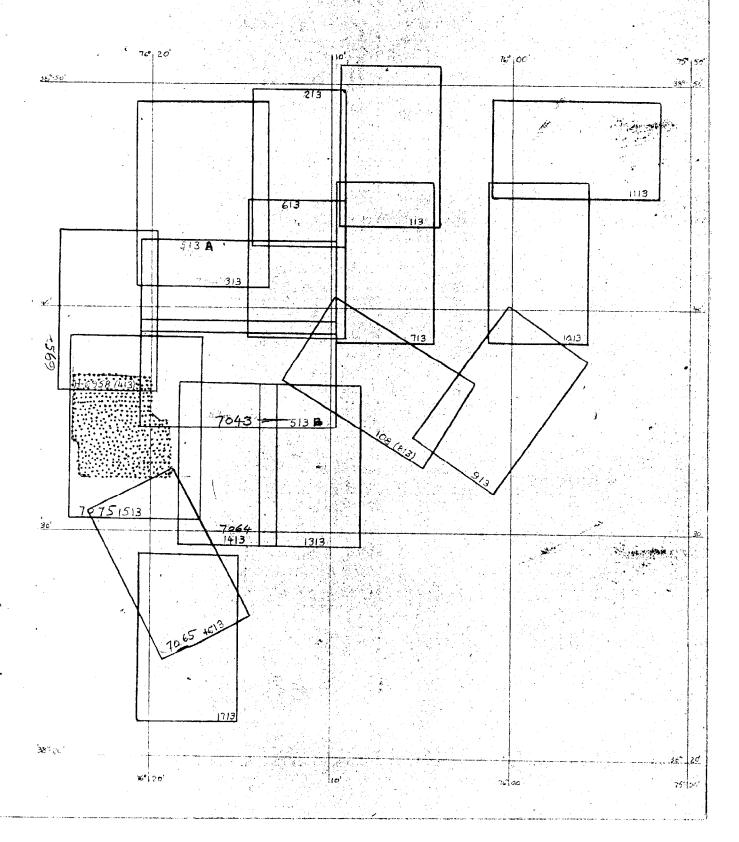
Isadore M. Zeskind Cartographic Engineer

Norfolk, Va. July 23, 1946

Approved & Forwarded

George L. Anderson Supervisor SE District

# SHEET LAYOUT Project CS-250 Scale 1:10,000



APPROVAL SHEET FOR HYDROGRAPHIC SURVEY H - 7075 (Field No. 1513)

The boat sheet and accompanying records for hydrographic survey Field No. 1513 have been inspected by me and are approved.

Thos. B. Reed, Lt.Comdr.,USC&GS

Chief of Party

GEOGRAPHIC NAMES Survey No. H707	75 /8	0/5	C C C C C	D Popular Production of the Pr	S. S	S. Tara Marco	O Guide de	and Medaly	os Janus	//
Name on Survey	/ A /	В	/ c	D	E	F	/ G	/н	K	
Chesateake Bay		fort							U-5-6-13	1
Sharps Island									U.S.6A	2
									USG 13.	3
Hills Frank Neck		2 war	rds)							4
Maryland		tor t	-						0.5.6.B	5
- Jan year										6
										7
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										27
										N 234

## Hydrographic Surveys (Chart Division)

# HYDROGRAPHIC SURVEY NO. R7.07.5.

Records accompanying survey:		
Boat sheets 1; sounding vols. 9;	wire dra	g vols;
bomb vols; graphic recorder rolls	.19. (in	5 envelopes)
special reports, etc	• • • • • • • •	• • • • • • • • • • • •
The following statistics will be submitted warpher's report on the sheet:	with the	cartog-
Number of positions on sheet		2383
Number of positions checked		25
Number of positions revised		3
Number of soundings revised		
(refers to depth only)		10
Number of soundings erroneously spaced		
Number of signals erroneously plotted or transferred		0
Topographic details	Time	
Junctions	Time	12.
Verification of soundings from graphic record	Time	12.
Verification by Henry J Bozzo Total time	me/.205	p Date 10/1/46
Reviewed by Ti	me ./8	Dete 10/8/46

#### DIVISION OF CHARTS

#### REVIEW SECTION - NAUTICAL CHART BRANCH

#### REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 7075

FIELD NO. 1513

Maryland, Chesapeake Bay, South of Sharps Island Surveyed in Sept. - Nov., 1945 Scale 1:10,000 Project No. CS-250

Soundings:

Z.

Control:

Fathometer, 808A

Three-point fixes on shore signals

Chief of Party - T. B. Reed
Surveyed by - T. B. Reed, W. H. Baindridge and C. R. Reed
Protracted by - A. G. Atwill and W. W. Feazel
Soundings plotted by - A. G. Atwill and W. W. Feazel
Verified and inked by - H. J. Bozzo
Reviewed by - G. F. Jordan, October 8, 1946
Inspected by - H. W. Murray

#### 1. Shoreline and Control

Sources of shoreline and control are given in the descriptive report. The shoreline agrees with T-8241 except for the correction made on H-7064 (1945) and transferred to the present survey in let. 38° 33.9', long. 76° 18.5'.

#### 2. Sounding Line Crossings

Satisfactory.

1

#### 3. Bottom Configuration

The survey covers the deep water approaches to Choptank and Little Choptank Rivers and includes irregular shoal areas projecting from Sharps Island, James Island and Hillspoint Neck. Irregularity of the shoal areas is caused by sand shoals.

2 words

#### 4. Adjoining Surveys

A satisfactory junction on the south is effected with H-7065 (1945). Junctions on the northeast, east, west and north will be considered when H-7043 (1943-45), H-7064 (1945), H-6952 (1944) and H-6958 (1943-44) respective, are reviewed.

#### 5. Comparison with Prior Surveys

#### a. H-199 (1848) scale 1:20,000; H-201 (1848) scale 1:20,000

These prior surveys show fair agreement with the present survey except in the vicinity of Sharps Island. The southern end of the island has receded nearly one and one-quarter miles since the 1848 survey and is superseded by present 8-ft. depths. Conversely, prior 14 to 18-ft. soundings south-southeast of the island are superseded by present 6 and 7-ft. soundings.

#### b. H-2427 (1899) scale 1:40,000

This small scale reconnaissance survey shows two parallel lines of soundings in the area of the present survey. Prior depths agree within 2 feet with present depths.

#### c. <u>H-2630 (1902); H-2631 (1902); H-2681 (1903-08); scales</u> 1:20,000

These prior surveys disagree generally with the present survey. Present depths are 1 to 6-ft. shoaler in 12 to 50-ft. depths. Recession of the shoreline on Sharps Island previously mentioned and deepening of adjacent waters leaves prior 5-ft. soundings falling in present 8-ft. depths.

An uncharted 11-ft. sounding at lat. 38° 32.7', long. 76° 19.7', should be disregarded. The sounding was on line between 16 and 18-ft. soundings and falls between 16 and 18-ft. depths on the present survey. The ll is considered to be in error by 1 fathom.

These prior surveys are superseded by the present survey except for bottom characteristics and a 6-ft. sounding at lat. 38° 36.57', long. 76° 24.22', which have been carried forward.

#### 6. Comparison with Chart 553 (Print date of May 25, 1946)

#### a. Hydrography

Charted hydrography originates with the aforementioned surveys of 1899 to 1908 and is superseded by the present survey.

#### b. Aids to Navigation

Aids located on the present survey agree satisfactorily with charted aids except for Hills Point Flats Lighted Bell Buoy lA which is charted at lat. 38° 33.28', long. 10° 20.25' in 6-ft. depths. The present survey located the buoy 150 meters southward in 24-ft. depths, which agrees with depths in the Light List.

#### 7. Condition of Survey

- a. Sounding records and the Descriptive Report are complete in all detail.
- b. Smooth-plotting was very good.

#### 8. Compliance with Project Instructions

The survey complies with instructions except for complete investigation of charted shoals. The charted 6-ft. sounding at lat. 38° 36.57', long. 76° 24.22', was not investigated.

#### 9. Additional Field Work

This is an excellent basic survey and no additional field work is required.

Examined and approved:

Chief, Nautical Chart Branch

Chief, Section of Hydrography

Chief, Division of Coastal Surveys

Chart Division

FORM 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

#### TIDE NOTE FOR HYDROGRAPHIC SHEET

August 16, 1946

Division of Hydrography and Topography:

Division of Charts: H. W. MURRAY

Plane of reference approved in 9 volumes of sounding records for

HYDROGRAPHIC SHEET 7075

Locality South of Sharps Island, Chesapeake Bay, Maryland

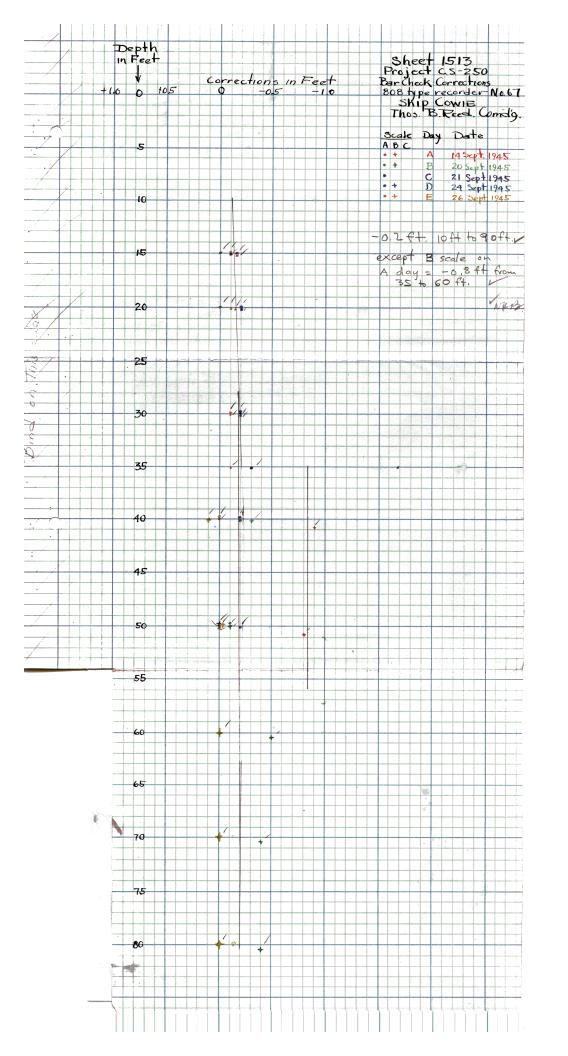
Chief of Party: T. B. Reed in 1945
Plane of reference is mean low water, reading
3.0 ft. on tide staff at Taylors Island
3.5 ft. below B. M. 1
6.3 ft. on tide staff at Cambridge
4.7 ft. below B. M. 1

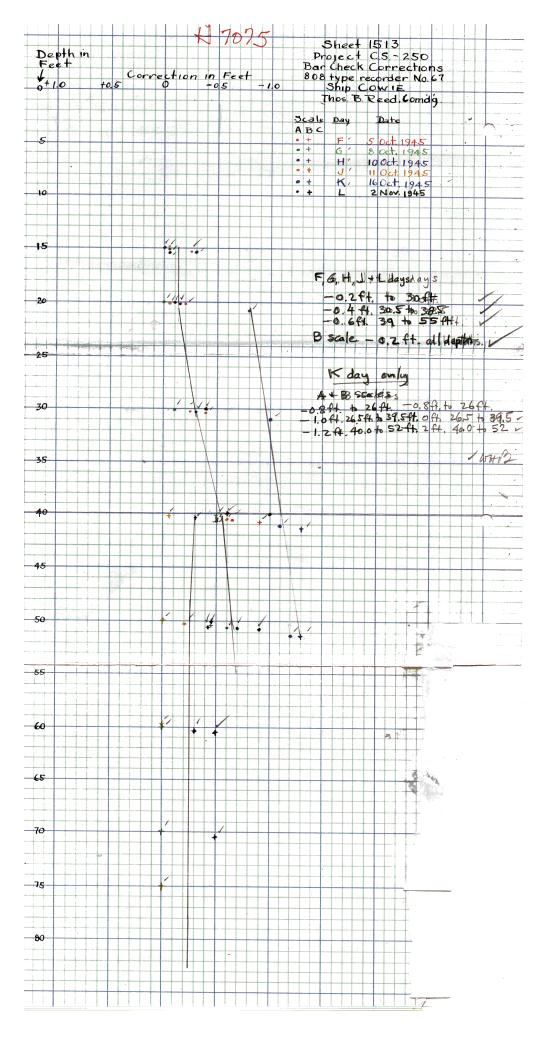
Height of mean high water above plane of reference is 1.3 feet.

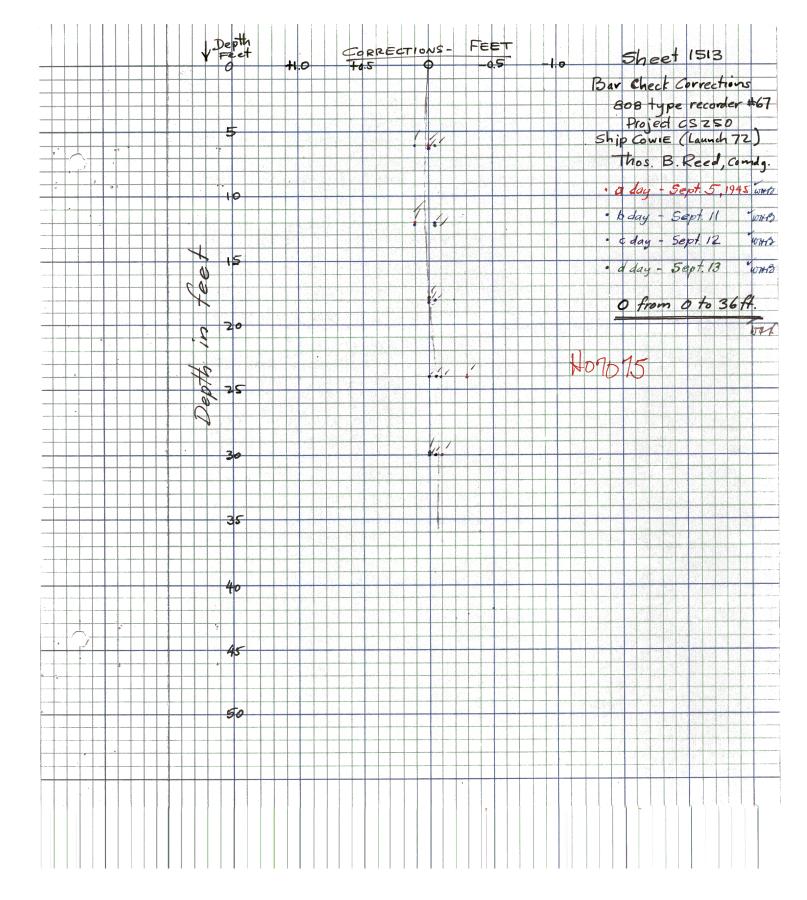
Condition of records satisfactory except as noted below:

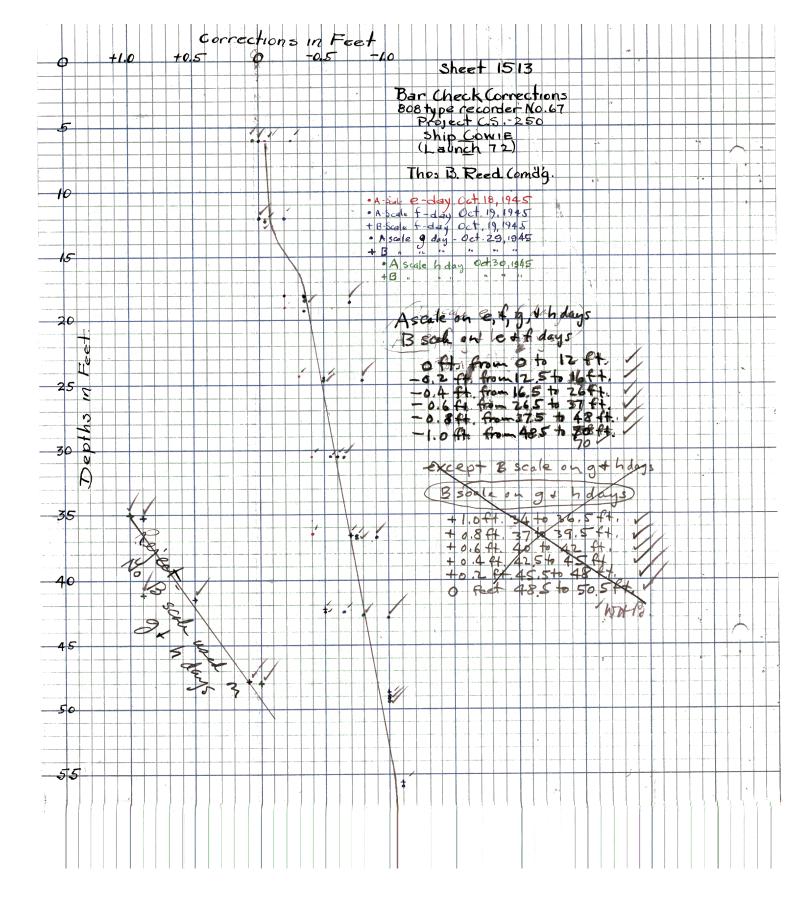
E.C. McKay Chief, Division of Tides and Currents:

W. B. GOVERNMENT PRINTING OFFICE 1545









## NAUTICAL CHARTS BRANCH

SURVEY NO. H7075

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
. ,		A	
2/26/47	553	La Missann	Before After Verification and Review  Very Partially applied.
,			Very Cartally applied.
			Before After Verification and Review
6/27/47	1225	fa Medam	Before After Verification and Review
			Partially applied.
1-23-48	17	G.H.E	Before After Verification and Review Partial
8/18/48	551	L. A. Straw H.E. Mac Ewen	Bafere After Verification and Review
11/7/51	553	A.F. Blegman	Before After Verification and Review thru chl 55/
, ,			to reconstruction drug.
2/27/64	77	O. Svendsen	After Verification and Review
			Before After Verification and Review
		,	Before After Verification and Review
			Before After Verification and Review
			before After Verification and Neview
	<u> </u>		
			:

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.