# 8328

Diag. Sht. Nos. 1002.1254, & 1255-2

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

# DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHER

Field No. HY-8156 Office No. H-8328

LOCALITY

State FLORIDA

General locality, Gulf of Mexico

Locality West Coast of Florida

19.56

CHIEF OF PARTY

Walter J. Chovan

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DATE MAR 261957

**IMPORTANT** 

PAGE 44 WAS ADDED

IT IS NOT A PAGE IN THE REPORT

IT SHOWS DETAIL FROM

ORIGINAL DOCUMENT MISSING

FROM THE SCAN OF PAGE 43

proj 13280



Form 537 Ed. June 1946)

#### DEPARTMENT OF COMMERCE

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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-8328

Field No. HY-8156

State	Florida	
General locality	Gulf of Mexico	
Locality	West coast of Florida To Sanibal I.	
Seale 1:80,000	Date of survey 29 July - 13 September	1
Instructions dated	29 December 1955, 1 March 1956, 11 July 1956	
Vessel	Ship HYDROGRAPHER	•
Chief of party	Walter J. Chovan	•
E.K. McCaft	A. George, CDR. J.E. Waugh, LT. H.W. Keith, Jr., LT(jg) frey, ENS. R.J. Black, ENS. A.M. Cook, ENS. V.C. Ahlric hometer, graphic recorder, hand lead, wire Graphic Recorder	h
	Pargonnel; Ship HYDROGRAPHER	
Fathograms checked by	Personnel: Ship HYDROGRAPHER	
Protracted by	ENS. A.M. Cook, ENS. V.G. Ahlrich	
Soundings penciled by .	ENS. V.C.Ahlrich	
Soundings in factors	Ks feet at MLW XXXXXV	
REMARKS		
		٠.

16-66520-1

#### DESCRIPTIVE REPORT

#### To Accompany

Hydrographic Survey H-8328 (Field No. HY-8156)

29 July - 13 September 1956

Ship HYDROGRAPHER

Scale 1:80,000

Walter J. Chovan

Chief of Party

#### A. PROJECT:

This survey was made under Instructions 222/MEK, S-2-HY dated 29 December 1955, and accomplished in accordance with Supplemental Instructions 22/MEK, S-2-HY dated 1 March 1956, and 22/MEK, S-2-HY dated 11 July 1956. These are instructions for Project 13280 from the Director to the Commanding Officer, Ship HYDROGRAPHER.

#### B. SURVEY LIMITS AND DATES:

This survey includes the area off the West Coast of Florida, South of Sanibel Island. It is bounded as follows: on the east by the 5 fathom curve; on the west by longitude 82° 30; on the north by latitude 26°21; and on the south by latitude 25°50.

Adjacent hydrographic sheets are H-7935 (1951) - 1:80,000; H-8013 (1952) - 1:100,000; and H-8015 (1952) - 1:100,000. A satisfactory junction was made with H-7935 on the north. No junction was made with the western sheets; as these were beyond shoran limits. A hydrographic sheet, H-8322 (1956) on the south has been recently completed. The junction with this sheet is satisfactory.

The Survey on H-8328 was begun on 29 July 1956 and completed 13 September 1956.

#### C. VESSELS AND EQUIPMENT:

The hydrography on this survey was accomplished by the Ship HYDROGRAPHER. The turning radius at sounding speed (120 RPM or approximately 10 Kn) is 80 to 120 meters.

The sounding was done with two 808J type graphic recorders

(GS-153 SPX and GS-156 SPX). These units are so mounted in the Ship That either could be used at will and neither is considered as a standby unit. Fathometer comparisons, wire soundings, and temperature salinity stations were observed throughout the season to obtain corrections for soundings. Details are contained in the Velocity and Instrumental correction Reports.

The ship's gyroscope compass was used throughout the survey. Its error was checked throughout the season by sun azimuths and amplitudes and found to be negligible.

Wire drag investigations on this sheet were made using the ships launches CS 114 and CS 117.

#### D. TIDE AND CURRENT STATIONS:

No tide or current stations were observed within the limits of hydrography of this sheet.

Tide reducers for the reduction of soundings are referenced to the standard gage at St. Petersburg, Tampa Bay, Florida, Hourly heights were furnished by the Washington Office.

Tidal differences were furnished by the Washington Office for the area. (Directors Letter 36-338-982h) of 24 July 1956).

Predicted tide curves for the reduction of boat sheet soundings were also furnished by the office.

#### E. SMOOTH SHEET:

The sheet projection and shoran arcs were hand ruled by the Norfolk Processing Office. The soundings were smooth penciled aboard the ship.

This is an offshore survey and contains no shoreline or topographic details.

#### F. CONTROL STATIONS:

All the hydrography on this sheet was controlled entirely by shoran. Stations were located on:

Sanibel Island Lighthouse - Lee County, Florida, W.B.F., 1909.

Naples Tank - Collier County, Florida, R.P.E., 1928.

Caximba School Cupola - Collier County, Florida. This station

was recovered by W.J.C. in 1956. As a result of this recovery, the published position of this station as listed in the Geographic Positions was found to be in error. (29 October 1956, Letter from Commanding Officer, Ship HYDROGRAPHER to the Director.) The hydrographic station, Caxambas was used as a shoran station. It was located by sextant angles using Caxambas Pass Light, 1955; Beach, 1955 (exc.); and Cape Romano 3, 1955 (exc.) and the geographic position computed by third-order computations.

#### G. SHORELINE AND TOPOGRAPHY:

Shoreline shown on the boat sheet is from charts 1254 and 1255 (1:80,000). No shoreline or topographic details were verified by this survey, as it was on offshore survey.

#### H. SOUNDINGS:

Soundings on this survey were made using 808J type depth recorders, Nos. 153 SPX and 156 SPX. All soundings were made on the foot scale using an initial setting of 12.0 feet for both fathometers.

The stylus arm radii for the two machines was determined at the start of the field season and corrected as necessary.

Several prominent strays are evident on the fathograms. These occur on both fathometers (156 and 153) and also are not limited to any specific survey area. The majority of them appear as dark streaks attached to the bottom. Their cause may be either fish or vegatation.

The most prominent of these strays occurs on "D" day, 1 August 1956 between positions 148 - 149; also immediately following position 202. These rase to a depth of 26 feet in general depths of 45 feet. To disprove the existence of any shoals in this area, a wire drag having an effective depth of 38 feet was made over the spots in question (28 August 1956). No shoal indications were found during this operation. A smooth sheet of this special investigation is being forwarded with this report.

#### I. CONTROL OF HYDROGRAPHY:

The intersection of the shoran arcs approched a minimum of 32° at the western limits of the sheet. In order to develop the 5 fathom curve on the eastern limits of the sheet, some of the hydrography was run on or near the base line of the two principal stations, While plotting is difficult in this area, it is considered that a careful plott will produce a satisfactory position.

Shoran sets aboard the ship were changed once for repairs while

using shore stations "San" and "Nap". For this reason, two sets of correctors are required for the period those stations were in use. For details refer to the shoran calibration report. Correctors are entered in two parts. The first is the deviation of the zero check from the zero set. The second is the range correction as determined by a mean of periodical calibration, and is a function of the distance.

The control of the wire drag by the launches was accomplished on 1:20,000 plotting sheets. Control consisted of one shoran distance and a gyro bearing. Bearings and arcs had their origin at the same center which represented the ships anchored position. The shoran zero set of the launches was adjusted to give zero correction to distances read from the ships transmitting station. The ship maintained its relative position by frequent fixes from the shore stations (which could not be received on the launch sets. Positions consisted of range readings on the launches vs. simultaneous gyro bearings taken from the ship to the two launches. These readings and bearings were radioed to the plotting officers on the launches.

The shorm antennas of the stations were at all times trained to cover the working area.

#### J. ADEQUACY OF SURVEY:

This survey is considered complete and adequate to supersede prior surveys of this area. It is noted in section B that no junction was made with the prior surveys to the west (H-8013)(1952); (H-8015 (1952). This area will probably have to be developed with EPI control at a later date. There is generally good agreement with prior survey H-7935 (1951) to the north and recent survey H-8328 (1956) to the south. The depth curves can be adequately drawn at the junctions.

#### K. CROSSLINES:

Approximately 7.0% of the total hydrography on this sheet are crosslines. No major discrepancies were found.

#### L. COMPARISONS OF PRIOR SURVEYS:

The prior survey of this area was made in 1884 (H-15920, 1:40,000). In general, no differences were noted. However, because of age and wide line spacing of H-1592, no detailed comparison is attempted.

#### M. COMPARISON WITH CHART:

The survey area is shown on charts 1254 and 1255, 1:80,000. Soundings from the most recent correction of these charts (February

25, 1956) were transferred to the boat sheet and shown in green. In general good agreement was noted between the depth curves and soundings of this survey and the charts except in the case of the 30 foot curve on 1255 which seems to have moved off shore approximately  $\frac{1}{2}$  mile.

The 28 foot soundings charted in latitude 26° 07' N, longitude 81° 54' W were verified by 27 foot soundings recorded on "J" day between positions 108 - 109 and 228 - 229.

The 22 foot sounding charted in latitude 26° 07', longitude 81° 52.8' was not investigated. It lies offshore from charted depths of 27 feet, and 400 meters east of the project limit, which shows a minimum depth of 28 feet and a regular bottom.

The 25 foot charted in latitude 26° 08', longitude 81° 54' was not verified by the present survey. The shoalest indication found was a 26 foot sounding (pos. 159-160 "H") which occurs 200 meters south of the charted 25. It is recommended that the 25 foot sounding be retained.

#### N. DANGERS AND SHOALS:

No new dangers or shoals for charting purposes were found in this survey. The 27 foot sounding in latitude 26° 03', longitude 81 54.3', indicated on the preliminary review of 4 January 1956 was verified. Several 25 foot soundings were located 250 meters N W (pbs. 191-192 "N", 8-9 "AA").

The 30 foot sounding charted in latitude 26° 23', longitude 82° 23' was verified on survey H-7935 (1:80,000, 1951).

#### O. COAST PILOT INFORMATION:

This survey was accomplished by the Ship HYDROGRAPHER, operating out of Bayboro Harbor, St. Petersburg, Florida. No revisions for this area, Tampa Bay, or approaches are recommended in this report.

Coast Pilot revisions for this survey area are submitted in a separate report.

#### P. AIDS TO NAVIGATION:

No fixed or floating aids to navigation were located in this survey.

#### Q. LANDMARKS FOR CHARTS:

No additions or deletions to charted land marks are recommended by this survey.

#### R. GEOGRAPHIC NAMES:

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Since this is an offshore sheet no investigation of geographic names was made.

#### U. PRELIMINARY REVIEW ITEMS:

Preliminary review items of 4 January 1956 are indicated on the boat sheet in red.

Item 18, wreck, latitude 26° 10', longitude 82° 51' was not investigated as it was inside the 30 foot curve.

Item 16, wreck, latitude 26° 20.9', longitude 82° 08' was covered with wire drag and was not found (see W.D. Report Item 4 under Z). It is recommended this wreck be deleted from chart.

cht 1255

1250

Item 3, Preliminary Review of 3 March 1952, the shoal reported in approximate position 26° 20' N, 82° 20' W was not found. Depths within a mile radius of this position vary from 45 to 50 feet. The bottom is regular and it is extremely doubtful that a shoal exist in the area. It is recommended that the shoal be deleted from the chart.

Item 4, Preliminary Review of 3 March 1952, (also item 3 of 3/9/51), shoal was searched for and not found by this survey. Three sounding lines, 300 meters apart were run over this spot, with no shoal indications found. Depths varied from 75 to 85 feet. It is recommended that this shoal be deleted from the chart.

Shool E areck delthe from Cht 1113

Item 5, Preliminary Review of 3 March 1952 (also item 6 of 3/9/51), wreck, latitude 25° 52', longitude 82° 20' was not found. 300 meter-spacing lines (150-190 "Y" day) were run in an area of 1 mile radius about this location. Depths were, in general, 80 feet with no wreck indications. It is recommended this wreck be deleted from the chart.

# Z. TABULATION OF APPLICABLE DATA:

Secrois Report -

W.J. Chovan 1956/35 W.J. Chovan

- 1. Report on Shoran Calibration, forwarded on 30 November 1956 W.J. Chovan
- 2. Report on Instrumental Corrections, forwarded 17 Necember will choven 1956.
- 3. Report on Velocity Corrections, forwarded 6 December 1956. W.J. Cherrie
- 4. Descriptive Report for Field Examination No. 6, forwarded 17 October 1956, Wire Drag, Project 13280.
  - 5. Coast Pilot Report, Copy attached.
  - 6. Letter Relative to Tide Zones, Copy attached.

- Shoran Correctors, Copy attached. 7.
- Velocity Correctors, Copy attached. 8.
- Instrumental Correctors, Copy attached. 9.
- Letter Relative to Tidal Data, Copy attached. 10.

The list of applicable correctors for this survey are attached.

Respectfully Submitted

Vastine C. Ahlrich

Vastine C. Ahlrich ENS., C&GS

APPROVED AND FORWARDED:

Walter J. Choven, CAPT., C&GS Comdg., Ship ATDROGRAPHER

#### TIDE NOTE

#### To Accompany

Hydrographic Survey H-8328 (HY-8156)

TIDE STATION:

St. Petersburg, Tampa Bay, Florida

LATITUDE:

27° 46' N

LONGITUDE:

820 37' W

PLANE OF REFERENCE:

Mean low water 3.4 feet on tide staff (Assistant Directors letter of 8 October 1956; 36-477-982ho)

AREA COVERED:

See attached copy of letter from assistant Director,

24 July 1956; 36-338-98zh

TIME CORRECTION: See attached letter

HEIGHT CORRECTION: See attached letter

This gage was serviced 28 February - 2 March 1956 by East Coast Tide Party; LT(jg) Floyd J. Tucker, Jr.- Officer in Charge.

24 July 1956

The Commanding Officer To:

U.S.C.&G.S. Ship HYDROGRAPHER c/o U.S. Naval Station

Key West, Florida

Subject: Tide Zones - Project 13280

Reference is made to your letter of 16 July 1956.

Listed below are the tidal differences to be used in the reduction of soundings for the area requested, referred to St. Petersburg, Florida.

	Position	Time Difference	<pre>Height Difference (H.W.)</pre>
L.	(South of Lat. 26° 00') (East of Long. 82° 00')	-1 Hr.	<b>/</b> 1.0 Ft.
2.	(North of Lat. 26° 00') (East of Long. 82° 20')	-1 Hr.	<b>/</b> 0.5 Ft.
3.	(Lat. 25° 00' - Lat. 26° (West of Long. 82° 00'	00') -2 Hr.	0
4.	(North of Lat. 26° 00') (West of Long. 82° 20')	-2 Hr.	0

/s/ S. B. Grenell (Acting) Assistant Director

October 8, 1956

To:

The Commanding Officer

U. S. C. & G. S. Ship HYDROGRAPHER P. O. Box 1259

St. Petersburg, Florida

Subject:

Tidal Data, St. Petersburg

In order to refer the heights of the tide at St. Petersburg, Florida to mean low water, subtract 3.4 feet from the tabulated hourly heights previously furnished.

> /s/ Robert W. Knox Assistant Director

Ship HYDROGRAP HER P.O. Box 1259 St. Petersburg, Fla.

#### 19 March 1957

Tot

The Director

Coast and Geodetic Survey Washington 25, D. C.

Subject:

Coast Pilot Notes - Sheet H-8328 (HY-8156)

Project 13280.

Gulf Coast - Key West to Rio Grande Third (1949) Edition

Page 206 - line 31 Add. The elevated tank at Fort Myers
Beach can be seen for a considerable distance
offshore.

Page 202 - Line 41 Add. A flashing red light on top of the radio tower at Naples (WNOG) is visible 15 to 18 miles on a clear night.

> Walter J. Chovan CAPT., C&GS Comdg., Ship HYDROGRAPHER

## STATISTICS TO ACCOMPANY

# SHEET H-8328 (HY-8156)

Date 1956	Day <u>Letter</u>	Volume	No. of Pos.	Naut. Mi of Sdgs.
29 July 30 " 31 " 1 August 2 " 8 " 9 " 10 " 11 " 12 " 13 " 21 " 22 " 23 " 24 " 28 " 29 m 30 " 7 September 8 " 9 " 10 " 11 " 12 "		1 1-2 2-3 3-4 4 5 5-6-7 7-8 8-9 9-10 10 10-11 11-12 12 13 13-14 14 15 15-16 16+17 17-18 18-19 19-20		
13 " 25 October 26 " 27 " TOTALS	AA BA CA DA	20-21 22 22-23 23 23	275 244 324 <u>14</u> 5862	224.5 166.7 214.8 11.3 4330.7

Area Surveyed - 108444 Sq. Nau. Mi.

# SHORAN CORRECTIONS

Ship HYDROGRAPHER Indicator CRV-1111 Zero Set 99

Survey H-8328 (HY-8156) Transmitter CRV-1305 99.790

99.782

EFFECTIVE	RATE	(SAN)	DRIFT (NAP)			
	Distance	Corr'n	Distance	Corrin		
225J 11 Aug.	5.0- 7.6	-0.010	5.0-17.5	<i>f</i> 0.010		
to	7.6-11.0	-0.005	17.5-20.0	<b>≠</b> 0.005		
275AA 13 Sept.	11.0-15.0	0.000	20.0-22.5	0,000		
•	15.0-18.0	<b>≠</b> 0.005	22.5-25.0	-0.005		
	18.0-22.2	<b>/</b> 0.010	25.0-27.5	-0.010		
	22.2-25.7	<b>≠</b> 0.015	27.5-30.0	-0.015		
	25.7-29.2	<b>/</b> 0.020	30.0-32.6	-0.020		
	29 <b>.7-</b> 32 <b>.7</b>	<b>4</b> 0.025	32.6-35.1	-0.025		
	32.7-36.3	£0.030	35.1-37.7	-0.030		
	36.3-39.7	<b>₹</b> 0.035	37.7-40.1	-0.035		
	39•7 <b>-</b> 43•3 43•3 <b>-</b> 47•0	£0.040	40.1-42.7	-0.040		
	over-47.0	<b>/</b> 0.045 <b>/</b> 0.050	42.7-45.1	-0.045		
	0001-47.0	<b>F</b> 0.050	over-45.1-	<b>-</b> 0.050		
		·				
EFFECTIVE	RATI	E (CAX)	DRIF	T (NAP)		
	RATI D <b>i</b> stance	E (CAX) Corr'n	DRIF Distance	T (NAP)		
1BA 25 Oct.				Corr'n		
1BA 25 Oct.	Distance	Corr <sup>i</sup> n	Distance	Corr'n \( \forall 0.010 \)		
1BA 25 Oct.	Distance 5.0- 9.5 9.5-14.2 14.2-18.5	Corr'n <b>/</b> 0.025	Distance 5.0-17.5	Corr'n		
1BA 25 Oct.	Distance 5.0- 9.5 9.5-14.2 14.2-18.5 18.5-21.3	Corr'n \( \) 0.025 \( \) 0.020 \( \) 0.015 \( \) 0.010	Distance 5.0-17.5 17.5-20.0	Corr'n \( \frac{1}{0.010} \) \( \frac{1}{0.005} \)		
1BA 25 Oct.	Distance 5.0- 9.5 9.5-14.2 14.2-18.5 18.5-21.3 21.3-24.7	Corrin \$0.025 \$0.020 \$0.015 \$0.010 \$0.005	Distance 5.0-17.5 17.5-20.0 20.0-22.5-	Corr'n \$0.010 \$0.005 0.000		
1BA 25 Oct.	Distance 5.0- 9.5 9.5-14.2 14.2-18.5 18.5-21.3 21.3-24.7 24.7-27.5	Corrin \$\frac{10.025}{0.020}\$ \$\frac{10.015}{0.010}\$ \$\frac{10.005}{0.000}\$	Distance 5.0-17.5 17.5-20.0 20.0-22.5- 22.5-25.0	Corr'n \$\fo.010 \$\fo.005 0.000 -0.005 -0.010		
1BA 25 Oct.	Distance 5.0- 9.5 9.5-14.2 14.2-18.5 18.5-21.3 21.3-24.7 24.7-27.5 27.5-30.5	Corrin \$0.025 \$0.020 \$0.015 \$0.010 \$0.005 0.000 -0.005	Distance 5.0-17.5 17.5-20.0 20.0-22.5- 22.5-25.0 25.0-27.5	Corr'n \$\fo.010 \$\fo.005 0.000 -0.005		
1BA 25 Oct.	Distance 5.0- 9.5 9.5-14.2 14.2-18.5 18.5-21.3 21.3-24.7 24.7-27.5 27.5-30.5 30.5-33.3	Corrin \$\frac{0.025}{0.020}\$ \$\frac{0.015}{0.010}\$ \$\frac{0.005}{0.000}\$ \$-0.010	Distance 5.0-17.5 17.5-20.0 20.0-22.5- 22.5-25.0 25.0-27.5 27.5-30.0	Corr'n \$\fo.010 \$\fo.005 0.000 -0.005 -0.010 -0.015		
1BA 25 Oct.	Distance 5.0- 9.5 9.5-14.2 14.2-18.5 18.5-21.3 21.3-24.7 24.7-27.5 27.5-30.5 30.5-33.3 33.3-36.3	Corr'n \$\fo.025 \$\fo.020 \$\fo.015 \$\fo.010 \$\fo.005 0.000 \$-0.005 \$-0.010 \$-0.015	Distance 5.0-17.5 17.5-20.0 20.0-22.5- 22.5-25.0 25.0-27.5 27.5-30.0 30.0-32.6 32.6-35.1 35.1-37.7	Corr'n \$\fo.010 \$\fo.005 0.000 -0.005 -0.010 -0.015 -0.020		
1BA 25 Oct.	Distance 5.0- 9.5 9.5-14.2 14.2-18.5 18.5-21.3 21.3-24.7 24.7-27.5 27.5-30.5 30.5-33.3 33.3-36.3 36.3-39.0	Corr'n  /0.025  /0.020  /0.015  /0.010  /0.005  0.000  -0.005  -0.010  -0.015  -0.020	Distance 5.0-17.5 17.5-20.0 20.0-22.5- 22.5-25.0 25.0-27.5 27.5-30.0 30.0-32.6 32.6-35.1 35.1-37.7 37.7-40.1	Corr'n \$\fo.010\$ \$\fo.005\$ 0.000 -0.005 -0.010 -0.015 -0.020 -0.025 -0.030 -0.035		
1BA 25 Oct.	Distance 5.0- 9.5 9.5-14.2 14.2-18.5 18.5-21.3 21.3-24.7 24.7-27.5 27.5-30.5 30.5-33.3 33.3-36.3 36.3-39.0 39.0-41.8	Corrin \$\fo.025 \$\fo.020 \$\fo.015 \$\fo.010 \$\fo.005 0.000 \$\fo.005 0.010 \$\fo.015 \$\fo.020 \$\fo.025	Distance 5.0-17.5 17.5-20.0 20.0-22.5- 22.5-25.0 25.0-27.5 27.5-30.0 30.0-32.6 32.6-35.1 35.1-37.7 37.7-40.1 40.1-42.7	Corr'n \$\fo.010 \$\fo.005 0.000 -0.005 -0.010 -0.015 -0.020 -0.025 -0.030 -0.035 -0.040		
1BA 25 Oct.	Distance 5.0- 9.5 9.5-14.2 14.2-18.5 18.5-21.3 21.3-24.7 24.7-27.5 27.5-30.5 30.5-33.3 33.3-36.3 36.3-39.0 39.0-41.8 41.8-44.5	Corrin \$\frac{0.025}{0.020}\$ \$\frac{0.020}{0.015}\$ \$\frac{0.010}{0.005}\$ \$0.000\$ \$-0.010\$ \$-0.015\$ \$-0.020\$ \$-0.025\$ \$-0.030\$	Distance 5.0-17.5 17.5-20.0 20.0-22.5- 22.5-25.0 25.0-27.5 27.5-30.0 30.0-32.6 32.6-35.1 35.1-37.7 37.7-40.1 40.1-42.7 42.7-45.1	Corr'n \$\fo.010 \$\fo.005 0.000 -0.005 -0.010 -0.015 -0.020 -0.025 -0.030 -0.035 -0.040 -0.045		
1BA 25 Oct.	Distance 5.0- 9.5 9.5-14.2 14.2-18.5 18.5-21.3 21.3-24.7 24.7-27.5 27.5-30.5 30.5-33.3 33.3-36.3 36.3-39.0 39.0-41.8	Corrin \$\fo.025 \$\fo.020 \$\fo.015 \$\fo.010 \$\fo.005 0.000 \$\fo.005 0.010 \$\fo.015 \$\fo.020 \$\fo.025	Distance 5.0-17.5 17.5-20.0 20.0-22.5- 22.5-25.0 25.0-27.5 27.5-30.0 30.0-32.6 32.6-35.1 35.1-37.7 37.7-40.1 40.1-42.7	Corr'n \$\fo.010 \$\fo.005 0.000 -0.005 -0.010 -0.015 -0.020 -0.025 -0.030 -0.035 -0.040		

#### SHORAN CORRECTORS

Ship HYDROGRAPHER	3	Survey H-8328	(HY-8156)
Indicators CRV-94	47	Transmitter Cl	RV-417
Zero Set	99.780	99.'	795

EFFECTIVE	RATI	E (SAN)	DRIFT (NAP)		
lA 29 July	Distance 7.5-13.5	Corr'n -0.000	Distance 4.0- 9.7	Corr'n	
to	13.5-35.5	<b>/</b> 0.005	9.7-10.6	40.010	
142D 1 Aug.	over-35.5	<b>/</b> 0.010	10.6-11.8	40.005	
		-	11.8-13.2	0.000	
	•		13.2-15.3	-0.005	
143D 1 Aug.	5 <b>.3-</b> 8 <b>.</b> 7	<b>≠</b> 0.010	15.3-18.3	-0.010	
to	8.7-17.0	<i>4</i> 0.015	18.3-22.0	-0.015	
224J 11 Aug.	17.0-37.0	<b>/</b> 0.020	22.0-27.5	-0.020	
•	over-37.0	<b>/</b> 0.025	27.5-33.5	-0.025	
			<i>33.5</i> <b>-</b> <i>3</i> 9.0	-0.030	
			39.0-44.5	-0.035	
			over-44.5	-0.040	

# VELOCITY CORRECTIONS Sheets HY 8156, HY 8256

27 Jul <b>y</b> •	- 31 October	Table 1	
	From 0.0 ft. 20.5 37.5 54.5 67.0 71.0	To 20.0 ft. 37.0 54.0 66.0 70.0 104.0	Correction 0.0 ft.  \$\frac{0.5}{1.0}\$  \$\frac{1.5}{1.0}\$  \$\frac{1}{2.0}\$
8 November	er - 16 November	Table 2	
	0.0 24.5 48.0	24.0 47.5 96.0	0.0 \$\frac{1}{2} 0.5 \$\frac{1}{2} 1.0

# INSTRUMENTAL CORRECTIONS SHEET HY 8156, HY 8256

## FATHOMETER 156

## Entire Season

Scale	Correction
A	0.0 ft.
В	<b>≠</b> 2.0
C	<b>≠</b> 4.0

# FATHOMETER 153

27 July - 1 October	
A	- 0.5
В	<b>≠</b> 1.0
С	<b>/</b> 1.0
9 October - 31 October	
A	- 1.5
B Through 66 ft.	<b>≠</b> 0.5
B over 66 ft.	0.0
8 November - 16 November	

A	- 1.5
В	0.0

DRAFT CORRECTIONS

# SHIP HYDROGRAPHER

# Sheets H-8328 (HY-8156); H-8329 (HY-8256)

FROM	TO	CORRECTION				
		HALF FOOR	ONE FOOT			
27 July	<b>6666</b> hrs. 12 Sept.	0.0	0.0			
0000 hrs. 12 Sept.	15 Sept.	-0.5	-1.0			
26 Sept.	0000 hrs. 26 Oct.	0.0	0.0			
0000 hrs.26 Oct.	1 Nov.	-0.5	-1.0			
7 Nov.	0000 hrs. 11 Nov.	0.0	0.0			
0000 hrs. 11 Nov.	16 Nov.	-0.5	-1.0			

#### APPROVAL

The records, boat sheets and smooth sheets for Survey HY-8156 are approved as submitted. All work was done under my personal supervision. The boat sheet was examined each day and the sounding and fathograms were inspected frequently. This survey is complete and adequate for its purpose as outlined in the instructions.

Walter J. Coovan

CAPT, C&GS

Comdg., Ship HYDROGRAPHER

	GEOGRAPHIC NAMES Survey No. 832,8		Tro Or	Ho. Ou	S. Mada	Se local trade	Lucio Lucio de la companio della com	O Guide of R	No of Man	2. S. Jake J. Jake	; /
	Name on Survey	A	40 / OΓ	C	D	E (	5 <sup>r</sup> / 9	G R		S K	
	Big Marco Pass										1
/	Cape Romano	الم				-					2
	Czxambas Pass										3
	Doctor Pass		•								4
	Gordon Pass				Wir	th ex	cept.	0 H D	4		5
	Gulf of Mexico			G			ŧ	zmes			6
	Little Marco Pass					1	1	re su	l .	1	7
	Wiggins Pass		er.			Į.		168-5		1	8
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# Hydrographic Surveys (Chart Division)

# HYDROGRAPHIC SURVEY NO. . 8328...

Records accompanying survey:  3 notests 544	of whe days on fath	ray mustigating
Boat sheets . A; sounding vols,		
bomb vols; graphic recorder rolls	48-Envel	opes
special reports, etc. 1-Smooth sheet, 1-J 1-Wire drag investigation sheet, and 1-Vo abstracts.		
The following statistics will be submitted w rapher's report on the sheet:	ith the ca	ertog-
Number of positions on sheet	•	• • • • •
Number of positions checked	•	• • • • •
Number of positions revised	•	• • • • •
Number of soundings revised (refers to depth only)	•	
Number of soundings erroneously spaced	•	• • • • •
Number of signals erroneously plotted or transferred	•	• • • • •
Topographic details	Time .	
Junctions	Time .	••••
Verification of soundings from graphic record	Time .	• • • • •
Verification by	e	Date
Reviewed by Time	e	Date

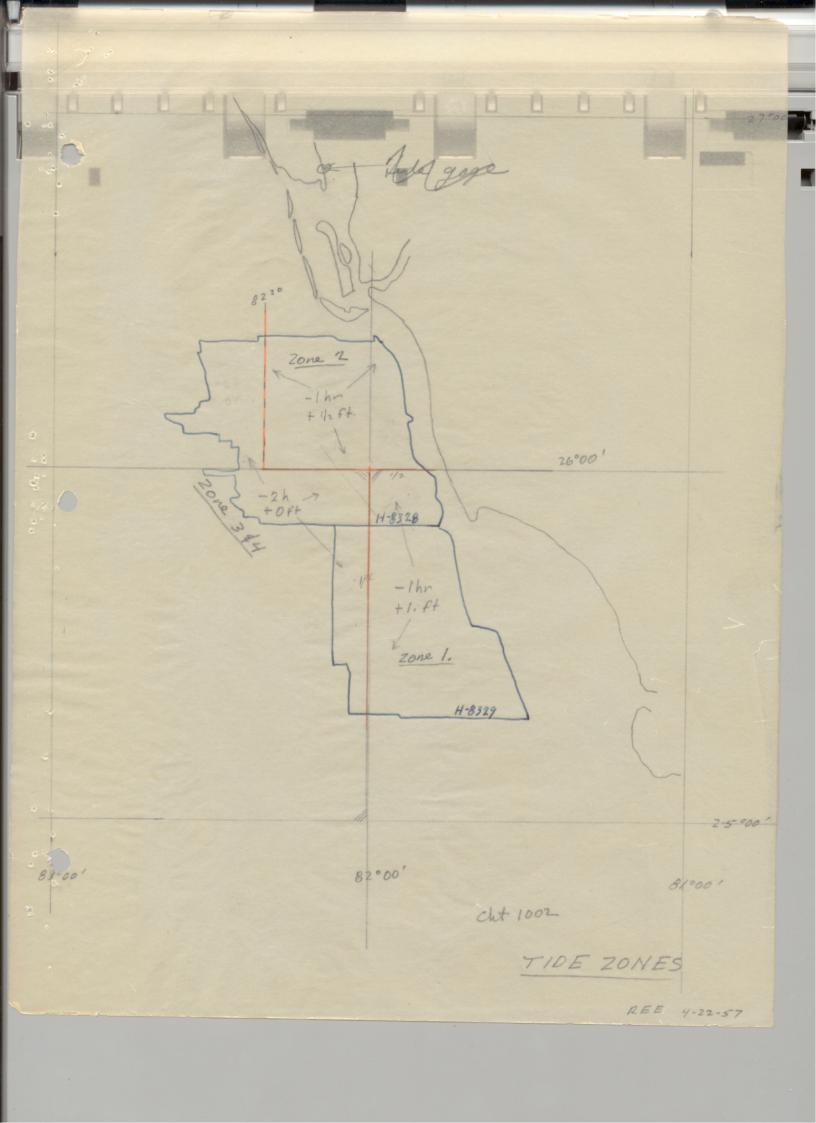
The verifier should deal with the present hydrographic survey only, as the reviewer considers its relation to previous surveys and published charts. He should be thoroughly familiar with Chapters 3, 7 and 9 of the Hydrographic Manual.

- 1. The descriptive report was consulted and appropriate notes were made in soft pencil regarding action taken.
- 2. Soundings originating with the survey and mentioned in the descriptive report have been verified, including latitude and longitude.
- 3. All reference to survey sheets mentioned in the descriptive report include the registry number and year.
- 4. Geographic names of hydrographic features if on sheet are in slanting lettering and of topographic features in vertical lettering.
- 5. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken.
- 6. All positions verified instrumentally were check marked in the sounding records.
- 7. All critical soundings are clear and legible and are a little larger than the adjacent soundings.
- 8. The metal protractor has been checked within the last three months.
- 9. The protracting and plotting of all bad crossings were verified.
- 10. All detached positions locating critical soundings, rocks or buoys were verified.
- 11. The boat sheet was compared with the smooth sheet.

- 12. The spacing of soundings as recorded in the records was closely followed.
- 13. The bottom characteristics were shown on outstanding shoals.
- 14. The reduction and plotting of doubtful soundings were checked.
- 15. The transfer of contemporary topographic information was carefully examined.
- 16. All junctions were transferred and overlapping curves made identical.
- 17. The notation "JOINS H- (19--)" was added in ink for all contemporary adjoining or overlapping sheets now registered. Those not verified are shown in pencil.
- 18. The depth curves have been inspected before inking.
- 19. All triangulation stations and transfer of topographic and hydrographic signals were checked.
- 20. Heights of rocks were checked against range of tide.
- 21. Rocks transferred from topographic surveys have a dotted curve where shown thereon. Rocks located accurately by hydrographer are encircled by dotted red curve.
- 22. Unnecessary pencil notes have been removed.
- 23. Objects on which signals are located and which fall outside of the low water line have been described on the sheet.
- 24. The low water line and delineation of shoal areas have been properly shown.
- 25. Degree and minutes values and symbols have been checked.
- 26. Questionable soundings have been checked on the fathograms.

- 27. Source of shoreline and signals (when not given in report).
- 28. All notes on sheet are in accordance with figure 171 in the Hydrographic Manual.
- 29. All aids located, with those on contemporary topographic sheets, have been shown on survey.
- 30. Depth curves were satisfactory except as follows:
- 31. Sounding line crossings were satisfactory except as follows:
- 32. Junctions with contemporary surveys were satisfactory except as follows:
- 33. Condition of sounding records was satisfactory except as follows:
- 34. The protracting was satisfactory except as follows:
- 35. The field plotting of soundings was satisfactory except as follows:
- 36. Notes to reviewer:

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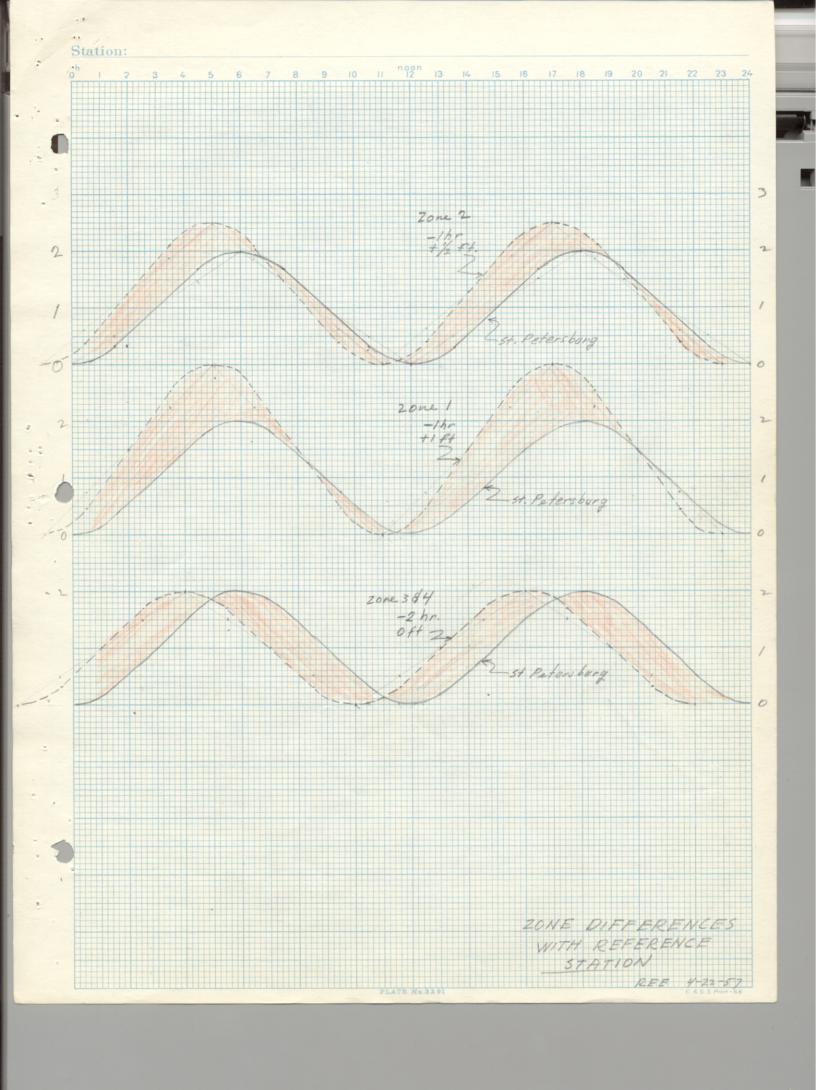
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(+3.7	+4.6	1.3)	- Carre		
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Aug. 29	, 1956		Acc	exted	
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ch as much as timing and ranges are uncertain in the offshore area a testo can be made as follows -D- use lines at low water (1/2 hr to either rede ) or a base and plat crossing difference on the tide curves for the crossling. (2) In as much on timing may be in error or much an 2 hrz this could cause a 1.2 fet evror in the low water pase lines - an ather List would be to shift the time of the of the low water on the lines used as a law water have to see if the differences would plot in a more consistant pattern than List (1).

if a smooth curve can not be abtained by these tests it may be concluded that differences are not eauned by time or range of tiden

to an work lade for E-



The maximum effect in going from Zone 2 to Zone I will be 1/2 ft at high tide. the maximim effect in going from 2 one 2 to 2 ones 3 \$4 will be 0.8 ft at 1/4 falling tide. the moximum effect in going from zone 1 to Zones 3 and 4 will be 1.3 ft at 1/4 falling EFFECT OF CHANGING ZONES REE 4-22-57

# Eguspment Pepleyment C5-328-1966 Ship-Hydrographer

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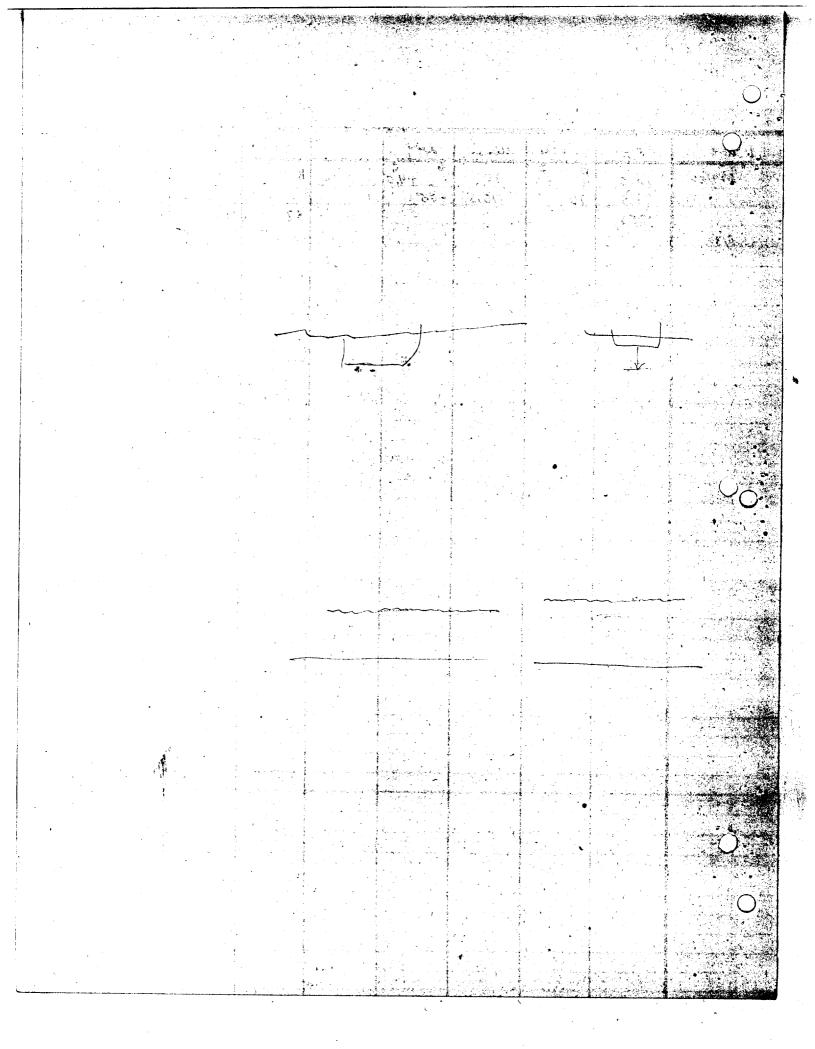
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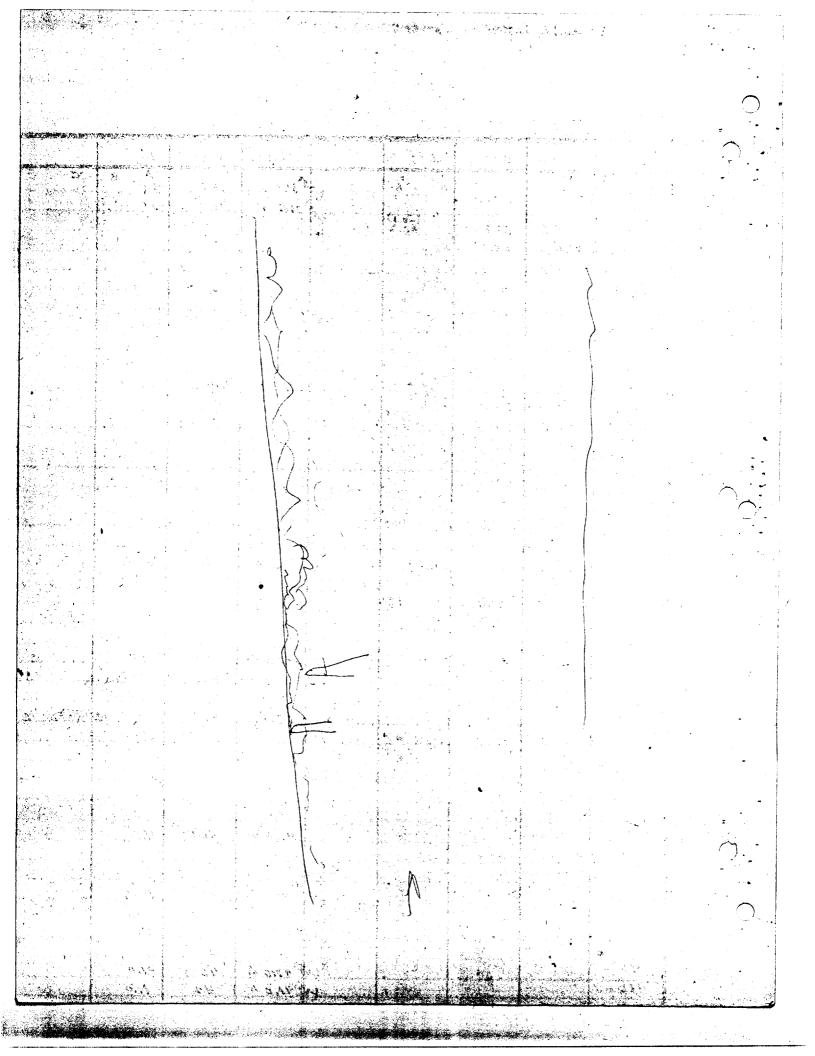
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#### U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

#### TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens

12 April 1957

Plane of reference approved in 23 volumes of sounding records for

HYDROGRAPHIC SHEET 8328

Locality West Coast of Florida

Chief of Party: W. J. Chovan in 1956

Plane of reference is mean low water, reading

3.4 ft. on tide staff at St. Petersburg

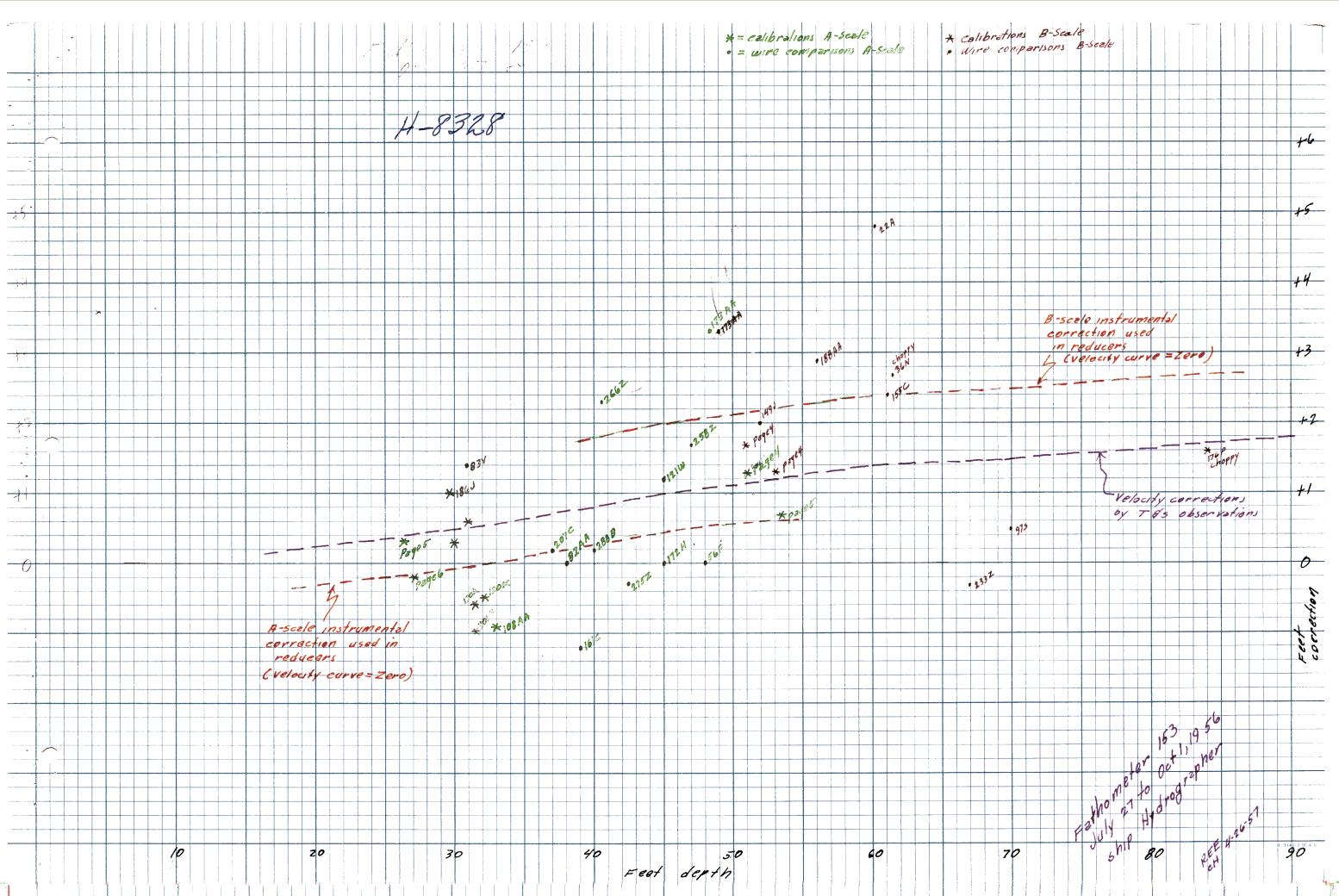
5.4 ft. below B.M. 4 (1925)

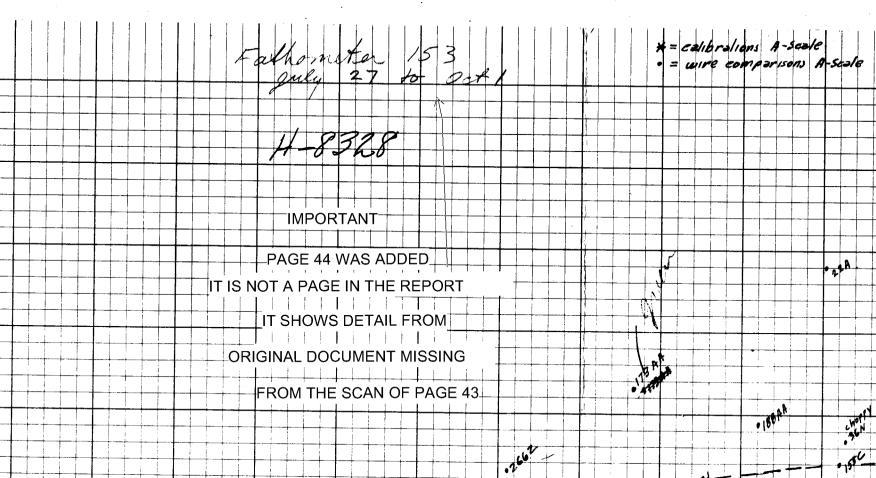
Height of mean high water above plane of reference at the working grounds is 2 feet.

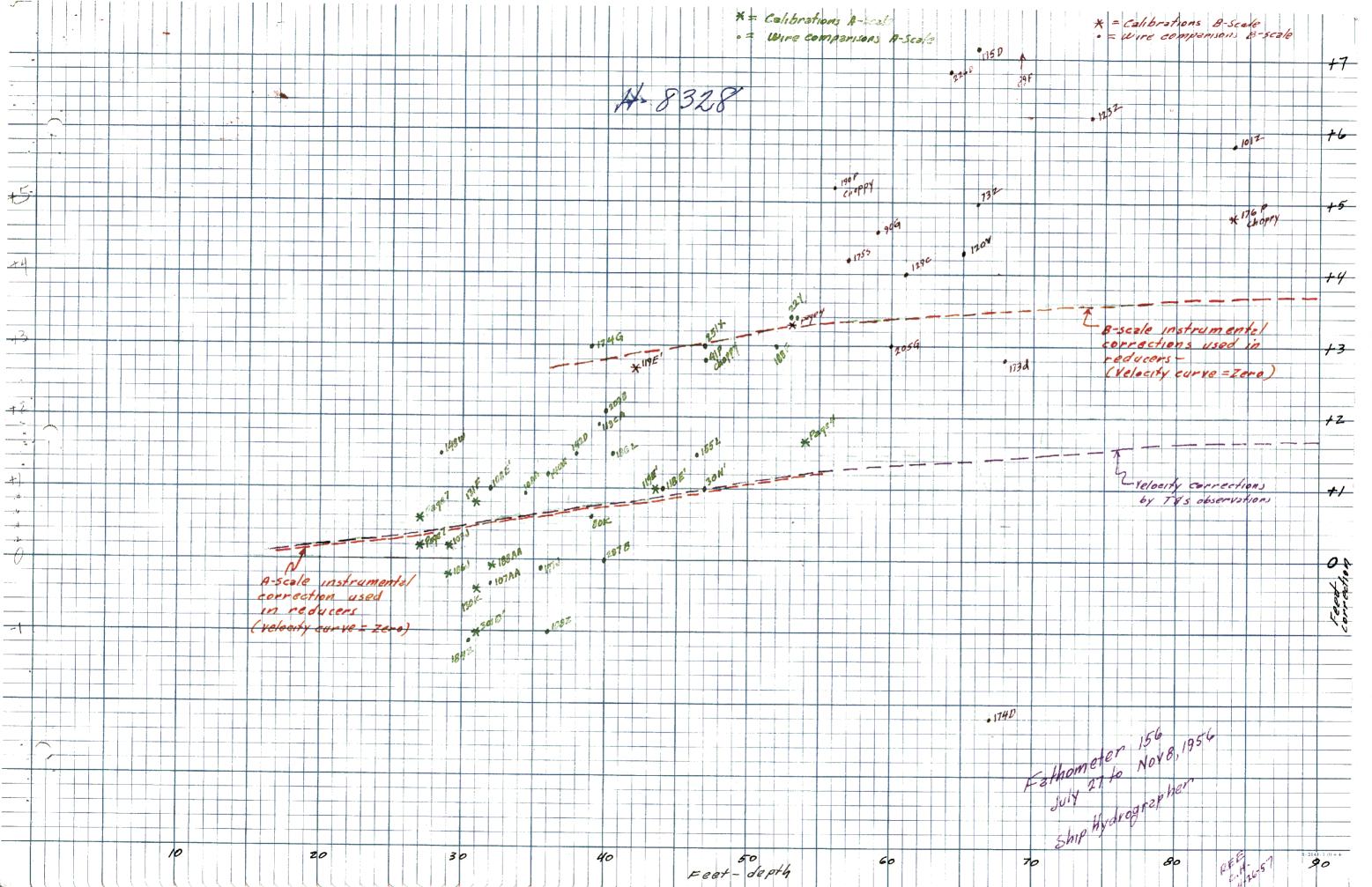
Condition of records satisfactory except as noted below:

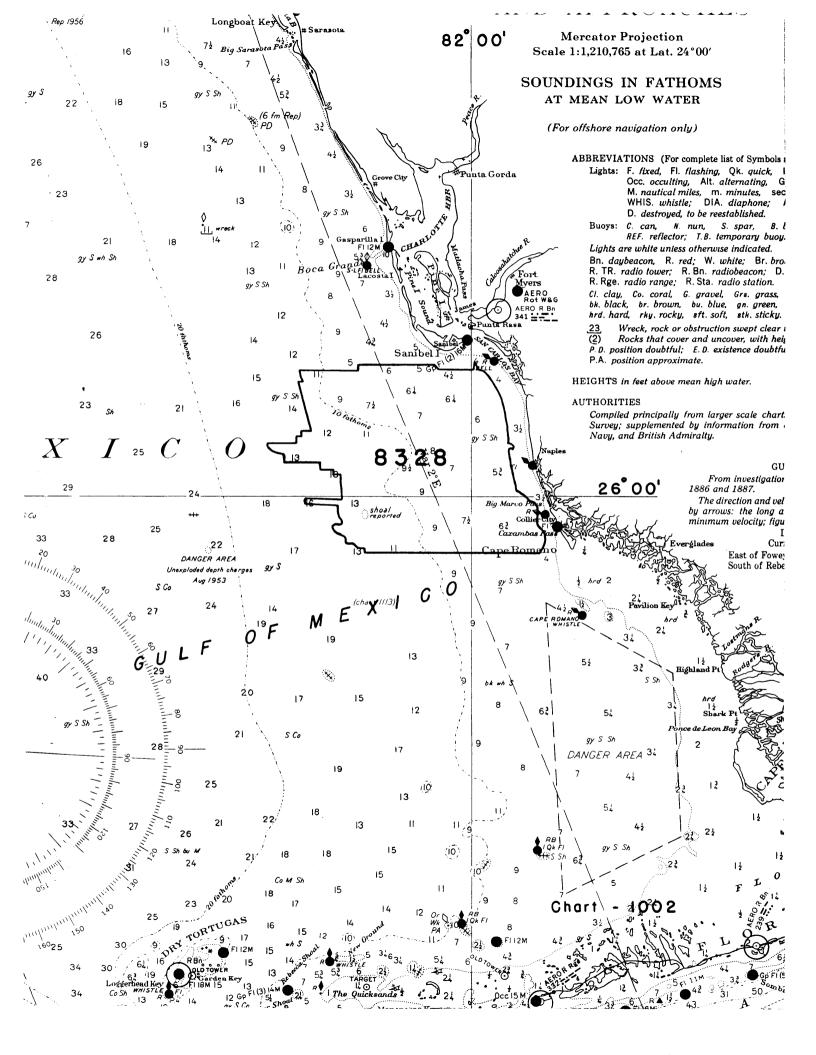
Signature

Chief, Tides Branch









# NAUTICAL CHARTS BRANCH

SURVEY NO. H-8328

# Record of Application to Charts

٠.				
	DATE	CHART	CARTOGRAPHER	REMARKS
11729	4-3-57	1254	R. K. De Lander	Before After Verification and Review
11426	4-3-57	1255	R.K. De Lawder	Part applied  Before After Verification and Review
1/420	4-4-57	1113	R. K. De Lawder	
	4-4-57	1003	R.K. Se Lawder	Obstantian Verification and Review Three Charles.
11460	1. 46-57	1112	JTW	Before After Verification and Review partial wind dwy 113
11426	apr 6V	1255	Tic hols	Before After Verification and Review Rz-afflix
11-27	eg Augbr	856B	11	He add 36-ft dapth contours  Before After Verification and Review Complete
11427	Oct 62	856 A	4	Before After Verification and Review Complete
	2/8/68	11427	Jack Allen	ASEQUATE Before After Verification and Review
	2-7-84	11429	JOET TURNER	ACTIVATE Before Verification and Review EXAMINE , NO CORRECTION
	2-15-84	11420	JOE TURNER	ADEQUATE BEFORE VERIFICATION AND REVIEW.
				APPLIED PARTLY THRU 11426 AND 11429, THE
	4-25-84	11006	Steve Tantan's	Adequate before Unification and Powers
t-	7-9-84	11013	JOE TURNET	Applied through the 11420  ADEQUATE BEFORE VERIFICATION & BENIEW.
٠	8-4-95	11460	La Sprand	3-E area 158 corr's #49 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.

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