8626

Diag. Cht. No. 1007-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. HY-40-1-61 Office No. H-8626

LOCALITY

State Florida

General locality Gulf of Mexico

Locality S. F. Gulf of Mexico

19 61

CHIEF OF PARTY

Emmett H. Sheridan, Capt, USC&GS

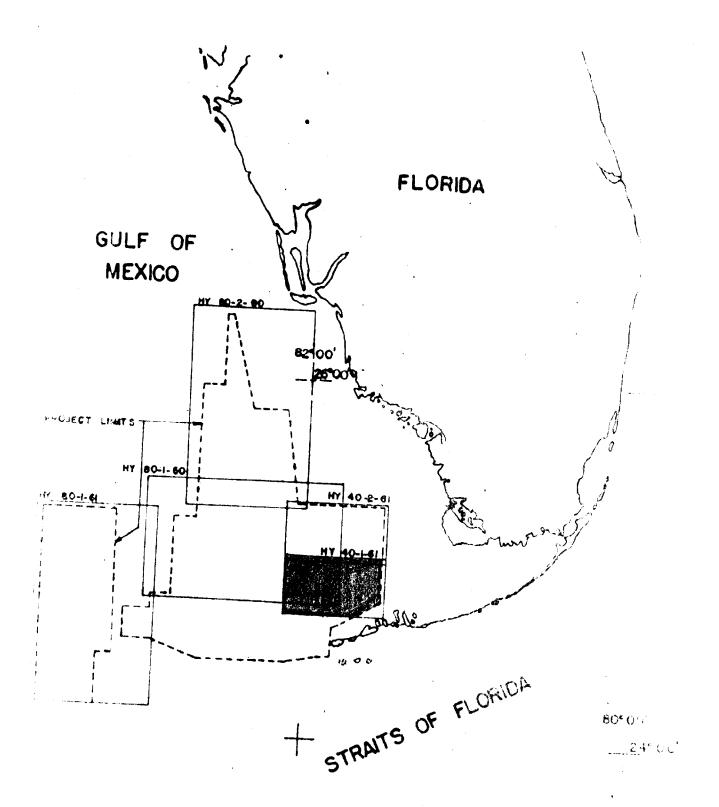
LIBRARY & ARCHIVES

DATE February 1962

USCOMM-DC 5087

(8-15-59) U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	REGISTER NO.
HYDROGRAPHIC TITLE SHEET	н-8626
INSTRUCTIONS · The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.	FIELD NO. HY-40-1-61
StateFlorida	
North of Key West	
Scale 1:40,000 Date of surv	ey 17 May thru 1 August 1961
Instructions dated 22 December 1960 Supplemental Instruct Vessel HYDROGRAPHFR	
Chief (Contain Thurst II Charida	
Surveyed by C.A. Schoene, J.F. Guth, R.C. Munson, R.L.	
Soundings taken by echo sounder, hand lead, wire 808 fathometers 5 Fathograms scaled by Ship's personnel	
Fathograms checked by <u>Ship's personnel</u>	
Protracted byG_Fussell	
Soundings penciled by G . Fussell Soundings in fathoms feet at MLW MLTW	
Soundings in Mathoms feet at MLW MLLW	
REMARKS:	
	$ \hat{\chi}_{00} $

INDEX OF SHEETS



INDEX OF SHEETS

GULF OF MEXICO & STRAITS OF FLORIDA PROJECT OPR-328 USCAGSS HYDRUGRAPHER 1961 UMASSEASON



Descriptive Report to Accompany
Hydrographic Survey HY-40-1-61
Registry No. H-8626
Gulf of Mexico and Straits of Florida
Ship HYDROGRAPHPR

Scale: 1:40,000
Frmett H. Sheridan, Chief of Party

A. Project

Project OPR-328 Straits of Florida and Gulf of Mexico Supplemental Instructions - dated December 22, 1960. Amended Instructions dated April 5, 1961.

B. Area Surveyed

This survey covers an area of approximately 506 square miles in the southeastern Gulf of Mexico, North of Key West. The survey extends from Lat. 25° 00'N Long. 81° 32' W, South to 24° 49'N, 81° 32' W thence southwest to Lat. 24° 42'N, Long. 81° 48'W then West to Lat. 24° 42'N Long. 82° 04' then North to Lat. 25° 00' Long 82° 04' then east to point or orgin.

Field work began on May 17, 1961 and was completed on August 1, 1961. During this period considerable work was accomplished on other projects.

This 1961 survey overlaps prior surveys H-1825 surveyed in 1888, scale 1:40,000 and H-1131 surveyed in 1872, scale 1:80,000. In the southeastern part of the sheet the 1961 survey overlaps prior survey H-1828 surveyed in 1888, scale 1:40,000.

Junction was not made with surveys 5924-1935 scale 1:10,000,5925-1935-scale 1:10,000, H-2623 - 1903 - scale 1:20,000 or 6326 - 1939 - Scale-1:20,000 due to the dangerous ship navigation that such a junction would impose.

Junction was made on the Northern part of the sheet with HY-40-2-61, on the Western side of the sheet with HY-80-1-60, and on the Fastern and the Southern side by project limits.

This survey overlapped surveys H-5924, H-1825, and H-1131 - scale 1:40,000, almost entirely. A junction was made with survey H-1828, with considerable overlap.

No.	<u>Date</u>	Scale	No.	<u>Date</u>	Scale
H-1828	1888	1:40,000	H-2623	1903	1:20,000
H-1131	1872	1:80,000	H-5924	1.935	1:10,000
H-1825	1888	1:40,000	H-5925	1935	1:10,000
		•	н-6326	1939	1:20,000

C. Sounding Vessel

The hydrography on this sheet was done by the Ship HYDROGRAPHFR and launch CS-185 of the Ship HYDROGRAPHFR.

The turning radius of the HYDROGRAPHER at sounding speed of 120rpm or approximately 10 knots is about 100 meters. The turning radius of the launch at sounding speed of 1500rpm or approximately 7 knots is about 30 meters.

Capital letters in blue, identify the work of the HYDROGRAPHER. Small letters in blue identify the work of hydrographic launch CS-185.

D. Sounding Equipment

Type 808 Fathometers, serial no. 57-31 and 153, were used for all sounding on this hydrography. These fathometers were used in water varying in depth from 25 feet to 75 feet.

Salinity and temperature observations were taken to determine velocity corrections for fathometer.

The algebraic sum of the fathometer error, settlement + squat, and draft were grouped under one correction (INST) and are tabulated at the end of this report.

A separate report for Fathometer and Velocity corrections has been submitted for 1961.

Between Position #185H and 187H the fathometer recorded the depth as 11 feet shoaler. These soundings were checked on another day. Position 21K-23K were taken on the same line and deeper depths were recorded. By comparison with surrounding soundings, it was concluded that the first soundings were in error and the deeper (latter) soundings were accepted as correct.

E. Smooth Sheet

The smooth sheet projection and Raydist Arcs were constructed and inked in the Washington Office.

F. Control

All hydrography on this sheet was controlled by Raydist (the 1961 Raydist lane value was 148.94669 feet) with the exception of a small area about 0.8 square miles in the southwestern corner of the sheet. This small area was controlled visually and developed by launch, since shoal water made ship navigation dangerous.

F. (con'd)

Two Raydist stations were established at the following locations:

Boca Chica Key: (R1) Triangulation Station Rock Point 3

1934, RM4 Latitude 24° 33' 36.139"N

longitude 81° 41' 03.731"W

Loggerhead Key: (R2) Triangulation Station

Latitude 24° 37' 58.222"N Longitude 82° 55' 12.167"W

The station at Boca Chica Key (R1) was located using third order traverse methods by ship's personnel in March 1960.

The station at Loggerhead Key (R2) was located in June 1961 by the Ship's personnel using second order tellurometer traverse.

The launch work in the southwestern corner of the sheet was controlled visually by using a buoy anchored on top of the sheal, Smith sheal light, 1934, and the ship HYDROGRAPH TR'S Mast.

The buoy was located by taking Raydist positions of the ship and bearings to the buoy. Four bearings were taken in this manner from widely spaced points and intersected in a point which was the location of the top of the shoal and the buoy. The HYDROGRAPHER anchored and a Raydist fix accurately indicated its position.

The Raydist dials were set from visual fixes and planted calibration buoys.

G. Shoreline

No shoreline or topography is shown on this sheet. The geographic position of Smith Shoal light was plotted by R_{\bullet} M. Hagan and vertified by $R_{\bullet}C_{\bullet}$ Munson.

H. Crosslines:

Two Hundred and Twenty One (221) of the twenty two hundred and fifty three (2253) nautical miles of soundings were crosslines. This is 9.8% of crosslines.

No depth curves were penciled because of the difference in line crossings, causing problems in accurately delineating the configuration of the bottom.

H. Crosslines (Con'd)

An attempt was made to weigh the actual tides between Key West, Dry Tortugas, and Naples to improve poor line crossing comparisons; however, it was found that the actual tides from the Naples gage produced the most satisfactory results. Crosslines comparisons vary from 0 to 4 feet. It is probable that the only way better results could have been obtained, was to record the actual tide in the area at the time of the hydrography, which would require an offshore tide gage.

I. Junctions

The comparison with the junction soundings H-1131 and H-1825, and H-1828 was adequate. Comparison with HY-40-2-61 and HY-80-1-60 was good.

J. Comparison with Prior Surveys

Preliminary Review Items - For details of Preliminary Review Items #10, #11,#12, #474 on Wreck List, and Preliminary Review Item for January 4, 1956 Chart 1351 refer to the letter to the Director dated August 2, 1961 subject - Chart Information.

The comparison with prior surveys H-1131, H-1825, and H-1828 is in general agreement. For reason of difference, see Crosslines of this report.

K. Comparison with the Chart

Comparison with Chart 1351 dated 21 November 1960 and Chart 1113 dated October 12, 1960 is good agreement with exception of the shoal near Smith Shoal Light 1934. An extensive development resulted in a least depth of 12 feet. On the chart, the shoal is $2\frac{1}{2}$ fathoms. (Refer to Letter to the Director dated August 3, 1961 subject - Shoal Development)

L. Adequacy of Survey

This survey is complete and adequate to supersede prior surveys for charting.

M. Aids to Navigation

Smith Shoal Light and two RB "WR" Buoys are within the area surveyed. Comparison of positions with chart #1351 agree very good.

There were several buoys within the area that were not shown in the Light List. These are Wildlife and Fishery buoys and are not shooth plotted as they are subject to change of location and description. Refer to the Coast G ward for the latest position and description.

N. Statistics

This survey consists of 3826 ship positions and 44 launch positions, 2253.7 n.m of sounding line by ship and 7.1 n.m of sounding line by launch. The survey covers 506 square nautical miles.

Oceanographic stations were observed. For detailed information, refer to Oceanography Report 1961, USC&GS Ship HYDROGRAPHER, Project OPR-328.

A total of 31 bottom samples were taken over the area the sheet covered.

O. Miscellaneous

Day letters C and D are both dated June 28, 1961 because of an error, which was not found in time to correctly letter the smooth sheet.

Therefore, both letters are used for the same day.

P. Recommendations

The survey is complete and adequate and no additional field work is recommended.

Q. Reference to Reports

1961 Reports

Title	Forwarded to	Date
Coast Pilot Report Season's Report Oceanographic Report Fathometer Report Raydist Report	Washington Office Washington Office Washington Office Washington Office Washington Office	November 17,1961 November 15, 1961 November 16, 1961 February 13, 1962 January 17, 1962

A list of data applicable to this survey is enclosed.

Respectfully submitted,

Gerald Fussell ENS C&GS

Gerald Jussell

TIDE NOTE

An attempt was made to weigh the actual tides between Key West, Dry Tortugas, and Naples to improve poor line crossing comparisons; however, it was found that the actual tides from the Naples gage produced the most satisfactory results.

A portable tide gage was established at Dry Tortugas, Loggerhead Key, Florida. Mean Low Water (MLW) on the staff was 2.6 feet.

Lat. 24° 38'N Long. 82° 55'W Time Meridan: 75th W

A portable tide gage was also established at Naples, Florida.

Lat. 26° 07.86'N
Long. 81° 48.47'W
Time Meridan: 75th W
Mean Low Water (MIW) on the staff was -0.4 feet

GEOGRAPHIC NAMES

The only charted geographic name in the area covered by this survey is Smith Shoal. On the shoal is a light (triangulation station).

The shoal located at longitude 81'58'40" wLat. 24° 42' 30'Nis not hamed on the chart.

TIDE CORRECTIONS

Day <u>Letter</u>	Date <u>1961</u>	<u>Time</u>	Correction
A	May 27	0000-0027 0028-0130 0131-0238 0239-0538 0539-0647 0648-0733 0734-1112 1113-1211 1212-1310 1311-1404 1405-1445 1446-1534 1535-1743 1744-1845 1846-1942 1943-2110 2111-2400	-2.5 -2.0 -1.5 -1.0 -1.5 -2.0 -2.5 -2.0 -1.5 -1.0 -0.5 0.0 -0.5 0.0 -0.5
B	June 27	-1135 1136-1215 1216-1258 1259-1332 1333-1418 1419-1445 1446-1526 1527-1602 1603-1800 1801-1841 1842-1922 1923-2022 2023-2120 2121-2222 2223-2400	-3.0 -2.5 -2.0 -1.5 -1.0 -0.5 0.0 40.5 40.5 0.0 0.5 -1.0 -1.5 -2.0
C	June 28	0000-0304 0305-0440 0441-0724 0725-0810 0811-0850 0851-0952 0953-1252 1253-1338 1339-1422 1423-1450 1451-1544 1545-1612	-2.0 -1.5 -1.0 -1.5 -2.0 -2.5 -3.0 -2.5 -2.0 -1.5 -1.0

C & D	June 28	1613-1638	0.0
		1639-1710	£0.5
		1711-2005	/ 1.0
•		2006–2038	≠ 0•5
		2039-2112	0.0
		2113-2145	-0.5
		2146-2257	-1.0
•		2258-2400	-1.5
		2270 2400	
E .	June 30	-0122	-2.0
		0123-0250	-2.5
		0251-0436	- 2.0
		0437-0622	-1.5
		0623-0806	-1.0
,		0807-0908	-1.5
·		0909-0956	-2.0
		0957-1106	-2.5
		1107-1438	-3.0
		1439-1522	
			- 2.5
		1523-1608	-2.0
		1609-1640	-1.5
		1641-1720	-l.O
		1721-1758	- 0.5
		1759-1833	0.0
		1834-1927	/ 0 . 5
		1928-2054	/1. 0
		2055-2132	≠0.5
		2133-2206	0.0
		2207-2248	-0.5
		2249-2330	-1.0
		2331-2400	-1.5
		·	
F	July 11	0000-0227	- 2 . 0
		0228-0430	-1.5
		0431-0633	-1.0
		0634-0736	-1. 5
		0737-0848	-2.0
		6849-1041	-2. 5
		1042-1154	- 3.0
		1155-1320	-2. 5
		1321-1418	-2.0
		1419-1457	-1.5
		1458-1544	-1.0
		1545-1615	-0.5
		1616-1723-	0.0
		1724-1902	≠ 0•5
		•	
		1903-2007	0.0
		2008–2046	-0.5
		2047–2137	-1.0
		2138-2257	-1.5
		2258-2400	-2.0
		•	

G.	July 12	0000-0219 0220-0420 0421-0713 0714-0814 0815-0953 0954-1340 1341-1448 1449-1522 1523-1621 1622-1701 1702-2017 2018-2113 2114-2210 2211-2400	-2.0 -1.5 -1.0 -1.5 -2.0 -2.5 -2.0 -1.5 -1.0 -0.5 -1.0 -1.5
H	July 13	0000-0243 0244-0450 0451-0754 0755-0921 0922-1020 1021-1418 1419-1517 1518-1552 1553-1712 1713-1726 1727-1922 1923-2010 2011-2100 2101-2150 2151-2232 2233-2400	-2.0 -1.5 -1.0 -1.5 -2.0 -2.5 -2.0 -1.5 -1.0 -0.5 0.0 -0.5 -1.0 -1.5
J	July 14	0000-0010 0011-0316 0317-0510 0511-0833 0834-0958 0959-1110 1111-1436 1437-1541 1542-1630 1631-1726 1727-1757 1758-2132 2133-2241 2242-2328 2329-2400	-1.5 -2.0 -1.5 -1.0 -2.5 -2.0 -1.5 -1.0 -0.5 -1.0 -1.5

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	K	July 15	0000-0048	-1.5
•			0049-0412	-2.0
			0413-0543	-1.5
			0544-0943	-1.0
			0944-1102	-1.5
			1103-1350	-2.0
			1351-1428	-2.5
			1429-1604	
				-2.0
			1605-1656	-1.5
	•		1657–1805	-1.0
			1806-1902	-0.5
			1903-2210	0.0
			2211-2300	-0.5
			23 01- 2350	-1.0
			2351-2400	-1.5
	L	July 16	0000-0693	-1.5
	2	our, ro	0604-1018	-1.0
			1019-1140	-1.5
			1141-1621	-2.0
			1622-1737	-1.5
			1738-1833	-1.0
			1834-1955	-0.5
			1956-2241	0.0
			2242-2336	-0.5
			2337-2400	-1. 0
	M	July 17	0000-0048	-1.0
	**		0049-0637	-1.5
			0638-1105	-1.0
			1106-1256	
				-1.5
		,	1257-1730	-2.0
			1731-1840	-1.5
			1841-1936	-1.0
			1937-2050	-0.5
			2051–2308	0•0
			2309-2400	- 0.5
	N	July 18	0000-0031	-0.5
•		•	0032-0103	-1.0
			0104-0218	-1.5
			0219-0424	-2.0
••			0425-0538	-2.5
**			0539-0749	-2.0
			UJJ7-U147	-
	P	July 26	2030-2112	-1.0
			2113-2157	-1.5
			2158-2400	2 2.0
			· · · · · · · · · · · · · · · · · · ·	

	Q	July 27	0000-0230 0231-0407 0408-0602 0603-0650 0651-0740 0741-0828 0829-1008 1009-2111 1212-1316 1317-1350 1351-1430 1431-1502 1503-1542 1543-1607 1608-1652 1653-1920 1921-2005 2006-2037 2038-2122 2123-2204	-2.0 -1.5 -1.0 -1.5 -2.0 -2.5 -3.0 -3.5 -3.0 -2.5 -2.0 -1.5 -1.0 -0.5 0.0 -0.5 0.0 -0.5
			2205-2300	-2.0 -2.5
			2301–2400	-2. 5
	R	July 28	000-0220 0221-0341 0342-0449 0450-0709 0710-0758 0759-0849 0850-0932 0933-1030 1031-1317 1318-1412 1413-1501 1502-1538 1539-1617 1618-1706 1707-1730 1731-2031 2032-2113 2114-2152 2153-2226 2227-2318 2319-2400	-2.5 -2.0 -1.5 -1.0 -1.5 -2.0 -2.5 -3.0 -3.5 -3.0 -2.5 -2.0 -1.5 -1.0 -0.5 -1.0 -0.5 -1.0 -1.5 -1.0 -1.5
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*	July 29	0000-0047 0048-0150 0151-0333 0334-0500 0501-0612 0613-0748	-2.5 -3.0 -2.5 -2.0 -1.5 -1.0
		0749-0832 0833-0917 0918-1013 1014-1138 1139-1411 1412-1510	-1.5 -2.0 -2.5 -3.0 -3.5 -3.0
		1511-1547 1548-1630 1631-1707 1708-1742 1743-1818 1819-2108	-2.5 -2.0 -1.5 -1.0 -0.5 0.0
		2109-2143 2144-2228 2229-2310 2311-2400	-0.5 -1.0 -1.5 -2.0
T	July 30	0000-0022 0023-0342 0343-0452 0453-0609 0610-0922 0923-1003 1004-1040 1041-1130 1131-1552 1553-1658 1659-1747 1748-1824 1825-1918 1919-2006 2007-2146 2147-2243 2244-2322 2323-2400	-2.0 -2.5 -2.0 -1.5 -1.0 -1.5 -2.0 -2.5 -3.0 -2.5 -2.0 -1.5 -1.0 -0.5 -1.0 -1.5
U	July 31	0000-0005 0006-0118 0119-0458 0459-0622 0623-0718 0719-1029 1030-1120 1121-1209 1210-1332- 1333-1630 1631-1736 1737-1834 1835-1920	-1.5 -2.0 -2.5 -2.0 -1.5 -1.0 -1.5 -2.0 -2.5 -3.0 -2.5 -2.0 -1.5

				•
Ū	July 31 Con'd	1921 – 2043 2044–2307	-1.0 -0.5	
		2308–2347 2348–2400	-1.0 -1.5	
V	August 1	0000-0040 0041-0152	-1.5 -2.0	
		0153-0540 0541-0711	-2.5 -2.0	
		0712-0821 0822-1206	-1.5 -1.0	
		120 7–1 248 1249–1421	-1.5 -2.0	
		1422–1756 1757–1937	-2.5 -2.0	
		1938-2028 2029-2400	-1.5 -1.0	

VELOCITY CORRECTIONS 1961

Depth in feet	Corr.
0-63	. 0.0
63.5 and over	<i>4</i> 0 5

INSTRUMENT CORRECTIONS 1961

and the second

		Fath. #153			Fath. #57-31		
Date	Phase	RPM 0-105	RPM 106-119	RPM 120	RPM 0-10 5	RPM 106-119	RPM 120
M ay 11	.A.	∤ 0•5	≠1. 0	/1. 5	-0.5	0.0	/ 0.5
thru August 1	В	/1. 5	<i>f</i> 2.0	/ 2.5	0.0	≠ 0•5	/1. 0
	С	/ 1.0	/1.5°	<i>f</i> 2.0	/1. 0	/1. 5	<i>f</i> 2.0

LIST OF SIGNALS

Boy			Buoy on Shoal
Hip		ı	HYDROGRAPHFR'S MAST
Sho	*	*	Smith Shoal Light 1932

APPROVAL

The records, smooth sheet and boat sheet for Survey H-8626, HY-40-1-61, are approved as submitted. All field work was performed under the supervision of Captain F. H. Sheridan, prior to my assuming command on January 19, 1962.

The records and smooth sheet as submitted to the Washington Office have been reviewed and approved.

The survey is complete and adequate and no additional field work is recommended.

Raymond M. Stone

DR, C&GS

Comdg, Ship HYDROGRAPHER

FORM 197 (3-16-55) GEOGRAPHIC NAMES
Survey No. H-8626

The Hold of Hot of the Hot of the

		chart III	Calente	7.2. 40g	or journation	or local to	O. Cuito	Rond Mc)	er /
Name on Survey	A	B	$\frac{1}{2}$	/D	E	o F	G	Н	N K	
Gilt of Mexico	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \								V	1
Full of Mexico Smith Shoal	~									2
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2

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 8626....

Records accompanying survey: 14	mooth sh	eets;
boat sheets; sounding vols; w	ire drag	vols;
Descriptive Reports; graphic reco	rder env	elopes .15;
special reports, etc L. Cahier - Raydist	Brush Ta	apes and
Clary Printer Tapes.	• • • • • • •	•••••
The following statistics will be submitted wi rapher's report on the sheet:	th the c	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	•••••
Special adjustments	Time	
Constan	109	*/72
Verification by Total time		Date
Reviewed by Time		Date

VERIFIER'S REPORT OF HYDROGRAPHIC SURVEY NO. H-8626

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.

- 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:

NAUTICAL CHARTS BRANCH

SURVEY NO. 8626

Record of Application to Charts

	18.000 28.85		
DATE	CHART	CARTOGRAPHER	REMARKS
4-2-62	1251	Jensaila	Before Verification and Review Cr. t.c. (Corronly.
4-2-62	1351	Jusaila	-4 cc all ac a
4-3-62	1253	Jew aite	Before Werification and Review Yo Com.
5262	4 (1970) 1 (0 2	
5-2-62	1007	G.R. Johnson	Before After Verification and Review Examined - No
\$1 45W-	14 2 11 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1		Corrections Applied
5-23-62		Juraily	Before Werification and Review, Corrections (1904)
		.0	
3/30/62	1252'	W. W Bengayne	Before After Verification and Review
i l		/- //	, , , , , , , , , , , , , , , , , , ,
7/27/62	1002	0. Svendsen	Before After Verification and Review Exam. No corr
**			
12/12/102	1113	H.M. Quinly	Before Affir Verification and Review
12/15/62	859	John P. Weir	Before After Verification and Review Exam, necorrection
	7		
1/15/63	1063	H. Quinly	Before After Verification and Review 10 fm curve.
' '		7	fm com
7/23/70.	1253	Harld M School	Before After Verification and Review Part App'cl
/			Added soundings in over of former insert
11/1/29	11449	Farnic Stewer	Adequitely applied tips se merification
Lucia	11		and reviews cal L.
11/19	11442	Janne Blowin	Adequately applied before verification
. , ,		4/3	and revided Cat Orberly applied
			through cht 11439.
2-3-83	11434	J. TURNER	ADEQUATELY APPLIED AFTER VERIFICATION. THE
			OVERLAP WAS APPLIED THRU CHARTS 11439 4/1442
			THE REMAINDER WAS APPLIED DIRECTLY TO 11434
2-3-83	11460	J. TURNER	No CORRECTION - SURVEY FALLS OUTSIDE M.2168-1

A basic hydrographic or topographic survey supersedes all information of 1" information of like nature on the uncorrected chart.

Give reasons for deviations, if any, from recommendations
made under "Comparison with Charts" in the Review

AFTER VERTICATION

2-7-84 11420 J. TURNER ADEQUATELY APPLIED, THRU CHRRT 11434 AFTER
VERTICATION.

7-9-84.	11013	JOE TURNER	ADEQUATELY APPLIED AFTER VERIFICATION
5-/6-90 -8-92	11431	DMCALINDER Ken. Forster	POEQUATELY APPLIED CATEGORY I Adequately Applied-Cat 1
-8-97	411	Ken Forster	Adequately Apptiel-Cat. I
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TIDE NOTE FOR HYDROGRAPHIC SHEET

REVIEW MIX YOU KEEP STATE OF THE PROPERTY OF T

May 17, 1962

Division of Charts: R. H. Carstens

Plane of reference approved in 14 volumes of sounding records for

HYDROGRAPHIC SHEET 8626

Locality Southeast Gulf of Mexico

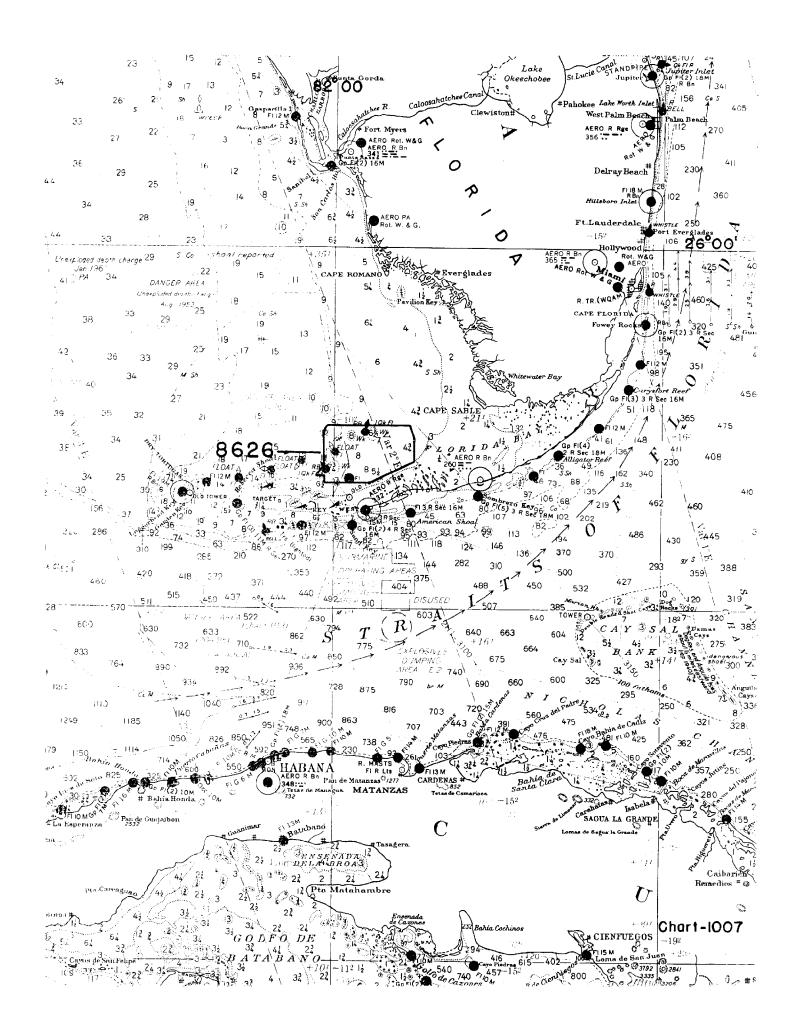
Chief of Party: E. H. Sheridan (1961) Plane of reference is mean low water reading -0.4 ft. on tide staff at Naples, Florida

10.0 ft. below B. M. No. 1 (1933)

2.6 ft. on tide staff at Dry Tortugas, Florida 8.8 ft. below B.M. No. 1 (1952)

Height of mean high water above plane of reference is: Naples, Florida 2.1 ft. Dry Tortugas 1.0 ft.

Condition of records satisfactory except as noted below:



Discrepancies on H-8626(196) Gelf & Marino Description of 1-4 ft. occur- of numerous crossings of 808 Fathamater lines on H-8626. A steely of the united Fraces one many days indicate two strong lines of trace componing the initial. The top trace reormally considered as the initial in retuelly exceled by a pulse going through a direct coronit in the fathlometer to the styling. There Juneally maintained at a condition value ly moderneed mound. The record trace appearing 2 to 4 feet below the just trace probably reflecte the discharge of the transducer Though possibly not a direct measure of it. Depth as verified by manne of the record-colo is stillerliked to the top witiel to are The record wited trace varie in portion and vorieting, the line break down into evité of traces. malfienten and instability in the transders cercuit is widecated as for

example at position 257 H colors, allough the top wited boace in eactant, the second trace has dropped and the lottom trace has also dropped. A connection between the bottom profile and the second initialteace is there established . Here tooks man a very ragged second initial and similar traces in the latter profile. Light traces extracting up from the second initial appear at in low places will consisponding light traces in the bottom profele their the light trace will emprove many of the cropsing devergencies ætthaugh a complete efplanetión of their retention is not rachaly apparent. With some excaptions The light traces were gones lly not read in the field. Three vertical east comparenous to determine the instrumential correction. There were taken

well the second united at about 14.7 feet world reloated be accepted de & loose when correcting soundings for movement of the second initial. Clarges in the TRA correction may be muche to correct for these slifts. Where the light bottom profile or expelles should be reflected in the Depth the cleo can be a complished by revisions to TRA. Where the recondinitied appear to bland with the first initial there the malfunction is considered to have covered and work of these Lager merelleres of a lack for enclusting other days work. An there is musilainty regarding the accuracy of tide relucers in their de conflète considére, in préde des la conflète de la conflète de la conflète de la conflète de la fact monte le conflète de la fact monte de la faction de la conflète de differed with recorded consistent from the Noples grages by an much as a feet. However, gradier doodsing difference revelled squelling nome mestone The program to resolve the discochancia I should convert of the following's (1) Detarming correctors to bring bottome seedings to the level of Light Traces

The correctors for the geroud. ili'l aleft Macelfint le applied on the acolinis of lines (2) Determine consection to bring second without to 14.7, elle value at calibrate time. Since their may be only an approprimention of deviation of only & Atmay be diargarded. (3) Log pacliminary Tea conscion topas and steely prelimary plat. Additional adjustance to may be required in some sections of lines baselon crossings. Porteau of A B Cand Ndap may becauded. The following are recommendation for consections on many days work of note applied in the volumes. and dis adjustment determinister be advisable for postions of A, Bando days 6, DE and Folag - plot av recorded. C. 2-nd initial on 19-46 6 183 1866 and the entire H-day may be some was 4. undivited por 1-581 ishow and blood library cost, of - 60 as also should a comple of religi near 75%, For Eight trace por, 226 to 283 J, corr. 21.01. e, kay to correct to top of light trace use: pool 1-3 k, east. -2.0'
por 3k+15 ly to 20k, east. -1.5 por 21/ to 24/ , cont -2,0 por = 5 k to 40k, com - 1,0

es lighto - 1,0, Prop. 120 to 1331 2 md mittale corrections con 110. Poo 169-175 L 2 md michel Corr. - 1,0 I' M-day por 1-197M zondenetic'l corr, -10 h. Noday por 67-89N adjustment may be need later J. Polary por. 29+25 Ego to 16P, con -2,0 for light trace. Pos. 199+1 sdy to 21P, co+1. -1.0' for light trace K. Q-day Pool-1219 OK To correct to light trace Pas 141-143k, corr -1,5 Por 148-150 +2 2 days, Carp -2,0 Par 1510 +3-2 to 1540+2-540, Corres,0 Par 164 Pto 165 PH sig, Con-2.0 Por 1659 + 2 sago to 1729 Com - 3.0 Por 172 9+15dy To 177 9+3 and 5011,-2.0 Par 178 pts 184 P, cost, -3:0 Por 1849+1527 to 2040, Com-2.0 Por 204 P-1.1 sag to 207 P, corr. -1.0 Por 217 Plo 247 P, carr. -1,5 L. Reday to correct to light trace. Omdays 5 TULV Ele-initial and interest and interest and interest and interest and interest and and another conferments of the large entry action of the another exclusions, and the another exclusions are also as a superior of the another exclusions.

Some H-8627 on the mostle done during the americal as H-8626 also has the a macroscies characteristicing H-8624 ... On 11-8629 and H-8628, surge plotted in Pathones, the same gethoneless were und and an accer freetioning with anyey plotted and cet the maturetioning may be significant. Supplemental recending lines reen on H-8629 to be uned en recolving problem on A-8325 (1956) should selve be examined for the same type of malfantioning PH Caroland

Before Ver + Review - Exam NovCorv. 179 11439 (1752) Fannie spawn Adagnately applied byene verification ordnessess (at I) 1442 Fannie Blemes Adagnately applied before verification. Cat I Applied Oncelogying patie, through cht. 11439 Example Correction after Verification and Review