

8629

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-80-2-60 Office No. H-8629

LOCALITY

State Florida

General locality Gulf of Mexico

Locality North of Florida Keys

1960-61

CHIEF OF PARTY

Kenneth S. Ulm (1960) Emmett H. Sheridan (61)

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FEB 28 1962

DATE February 1962

FORM 537
(8-15-59)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

REGISTER NO.

HYDROGRAPHIC TITLE SHEET

H-8629

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-80-2-60

State Florida

General locality Gulf of Mexico

Locality North of Florida Keys

Scale 1:80,000

Date of survey 14 May - 12 October 1960
18 May - 10 September 1961

Instructions dated Feb 3, 1960: Sup.Inst. Dec 22, 1960: Sup.Inst. June 22, 1961
Director's Ltr. October 17, 1961

Vessel USC&GSS HYDROGRAPHER - MSS-19

Chief of party Kenneth S. Ulm (1960) - Emmett H. Sheridan (1961)

1960-1961 C.A.Schoene, J.R.Plaggmier, J.E.Guth, L.S.Brown, G.M.Poor, J.A.Ten Eyck
Surveyed by D.A.Moncevicz, R.C.Munson, R.L.Speer, R.F. Dudley, R.M. Hagan, H.W.Floyd

Soundings taken by echo sounder, ~~hand lead, wire~~ 808 Fathometers

Fathograms scaled by Ship's personnel

Fathograms checked by Ship's personnel

Protracted by D. Moscopulos, J.E. Guth

Soundings penciled by D. Moscopulos

Soundings in fathoms ~~feet~~ at MLW MLW

REMARKS:

Blank lines for remarks.

Descriptive Report to Accompany
HYDROGRAPHIC Survey
Registry No. H-8629 (HY-80-2-60)
Gulf of Mexico
Ship HYDROGRAPHER
Scale 1:80,000

Emmett H. Sheridan

Chief of Party

A. Project:

Project CS-328 Gulf of Mexico and Straits of Florida. Revised Instructions dated 3 February 1960: Supplemental Instructions dated 22 December 1960, Supplemental Instructions dated 22 June 1961, and Director's letter dated 17 October 1961. For all work pertaining to Supplemental Instructions dated 22 June 1960, and Director's letter dated 17 October 1961, see paragraph O. Miscellaneous.

B. Area Surveyed:

This survey is in the eastern part of the Gulf of Mexico, and to the west of Cape Romano. The surveyed area contains work in 1960 and 1961. The 1960 survey covers an area of 420 square nautical miles. 1961 survey covers an area of 780 square nautical miles. The limits of the survey are as follows:

From Lat. $25^{\circ}-20'$ N, Long. $82^{\circ}-38'$ W, west to Lat. $25^{\circ}-20'$ N, Long. $82^{\circ}-04'$ W, North to Lat. $25^{\circ}-50.5'$ N, Long. $82^{\circ}-04'$ W, East to Lat. $25^{\circ}-50.5'$ N, Long. $82^{\circ}-22'$ W, Northwest to Lat. $26^{\circ}-22'$ N, Long. $82^{\circ}-38'$ W, South to point of origin.

Hydrography during the 1960 season commenced on 14 May 1960 and was completed 12 October 1960. Hydrography during the 1961 season began 18 May 1961, and was completed 10 September 1961. During these dates, work was also accomplished on other sheets and projects.

The survey makes junctions with contemporary survey H-8628 (HY-80-1-60), and prior survey H-7935, 1:80,000, 1951; H-8013, 1:100,000, 1952-54; H-8015, 1:100,000, 1952-54.

C. Sounding Vessel:

Hydrography was done entirely by the Ship HYDROGRAPHER. The turning radius at sounding speed (120 RPM or approximately 10 knots) of the HYDROGRAPHER is about 100 meters.

D. Sounding Equipment:

Two 808 fathometers 57-31 and 153 SPX were used for all hydrography. The depth ranges were from 5 to 21 fathoms.

Temperature and salinity observations were made for the determination of fathometer velocity corrections.

The instrument, settlement and squat, and draft correction are grouped under one correction (Inst) and abstracted at the end of this report.

Separate reports on fathometer and velocity corrections were submitted for 1960, and 1961.

E. Smooth Sheet:

The smooth sheet projection was inked in the Washington Office. Raydist arcs were inked using the 1961 Raydist Lane value of 148.94669 feet. The 1960 Raydist Lane value was 148.63145. In order to plot 1960 and 1961 hydrography on one set of arcs, a correction was applied to the 1960 value to make it agree with the 1961 value. These corrections are included at the end of this report.

F. Control:

Hydrography on this sheet was controlled entirely by Raydist. Raydist dials were set by calibration from visual fixes, cross ranges, and predetermined position of planted buoys. See the 1960 and 1961 Raydist reports for detailed information.

The Raydist stations were located by the ship's personnel using third order traverse methods.

The Raydist station location follows:

Boca Chica Key, (R1) Triangulation station *Red ARCS*
Rock Point 3, 1934, RM4
Lat. $24^{\circ} 41' 03.731''$ W
Loggerhead Key, Dry Tortugas, (R2) Triangulation station Loggerhead
Key Lighthouse 1875, *RML* *Blue ARCS*
Lat. $24^{\circ} 37' 58'' .046''$ N } *see next page position in error*
Long. $82^{\circ} 55' 11.052''$ W
Naples, Florida (R3) 1/2" galvanized iron pipe, 3 inches above
ground, established 1961 *ORANGE ARCS.*
Lat $26^{\circ} 09' 39.390''$ N
Long $81^{\circ} 48' 37.264''$ W

A new position determined for Loggerhead Key R2 (See Tellurometer Traverse Sand Key to Garden Key, Florida. Report 9-19 June 1961) shows a movement of 5.200 meters North and 26.130 meters West. Lat. $24^{\circ} 37' 58.222''$ N Long. $82^{\circ} 55' 12.167''$ W.

This shift in position is not indicated on the smooth sheet; therefore, all plotted positions are in error. The Director's letter of 25 July 1961 states, "The change in position of fixes resulting from the new G.P. of Loggerhead are not considered significant for charting purposes".

Corrections have been applied to the Raydist reading recorded in the volumes.

G. Shoreline:

No shoreline or topography was applicable to this sheet.

H. Crosslines:

Of the 2650.8 nautical miles of sounding lines, 300 miles were crosslines for a percentage of 11.3. The crosslines are in good agreement with the regular system of lines.

I. Junctions:

The comparison with the junction soundings of prior surveys H-7935, H-8013 and H-8015 was good. The comparison with the 1960-1961 survey H-8628 (HY-80-2-60) was good.

Crossline comparisons differ by one (1) fathom in parts of the sheet. Most of this is due to the breaking point when rounding off the soundings. Some difference is believed to be due to the inaccurate tide date. Based on surveys in the adjoining areas, it is probable that the only way better results could be obtained was to record the actual tide in the area at the time of the hydrography. This would require an offshore tide gage.

J. Comparison with Prior Surveys:

The comparison with H-7935, H-8013, and H-8015 is adequate.

Preliminary Review Items. Wreck of 811 ton BAJA CALIFORNIA (- Lat. $25^{\circ} 29'$, Long. $82^{\circ} 27'$) Investigation was made 24 September 1961. No indication of the wreck was found. See overlay dated 24 September 1961 to the Director. This development is shown on the smooth sheet.

K. Comparison with the Chart:

Comparison with the Chart 1113, 12 October is good.

L. Adequacy of Survey:

This survey is complete and adequate to supercede prior surveys for charting. The 20 fathom depth curves were penciled to adequately delineate the configuration of the bottom. There were not enough 10 fathom soundings to properly delineate the configuration of the bottom; therefore, the 10 fathom curve was not penciled.

M. Aids to Navigation:

None.

N. Statistics:

On this survey there were 2916 positions, and 2650.8 nautical miles of sounding lines.

A total of 20 bottom samples were taken.

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

O. Miscellaneous:

1. Two apparent stray soundings were recorded on this survey in 1960. The first at 10.5 fathoms in the general depth of 19 fathoms, and the second at 9.3 fathoms in the general depth of 16 fathoms. The positions are 83P and 215Q in the volumes.

Geographic Positions are:

83P - Lat. 25° 21.8'	Long. 82° 32.4'
215Q - Lat. 26° 20.9'	Long. 82° 38.0'

These strays were investigated during the 1961 season. No indication of these soundings were found. They are not shown on the smooth sheet.

2. Supplemental Sheet HY-80-2-60. Hydrography, processing of records, and plotting, was accomplished as per Supplemental Instructions 22 June 1960, and Director's letter 17 October 1961. Refer to Special Report (Supplemental Sheet HY-80-2-60) for all details.

Stray at 196Q, scour at base, not investigated on this survey G.P.N 26°02'30" w 82° 38.0'

It should be noted that although the soundings from Supplemental Sheet HY-80-2-60 are penciled on HY-80-2-60, their positions are in error (See F. control), and should not be used for comparisons.

P. Recommendations:

No recommendations are made at this time as the survey is considered adequate for charting requirement.

Q. References to Reports:

1960 Reports for reference are as follows:

<u>Title</u>	<u>Forwarded to</u>
Coast Pilot Report	Washington Office - Oct 1960
Season Report	Washington Office - 7 Nov 1960
Fathometer Report	Washington Office - 22 Dec 1960
Raydist Report	Washington Office - 22 Dec 1960

1961 Reports for reference are as follows:

Coast Pilot Report	Washington Office - 17 Nov 1961
Season Report	Washington Office - 15 Nov 1961
Oceanographic Report	Washington Office - 16 Nov 1961
Fathometer Report	To be forwarded
Raydist Report	Washington Office - 17 Jan 1962
Special Report (Supplemental Sheet HY-80-2-60)	To be forwarded

A list of data applicable to this survey is enclosed.

Respectfully submitted,




Dennis Moscopulos
Chief Quartermaster

A P P R O V A L

The records, smooth sheet and boat sheet for Survey H-8629 (HY-80-2-60) are approved as submitted. All field work was performed under the supervision of Captain Kenneth S. Ulm and Captain E. 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 are approved.

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


Raymond M. Stone
CDR, C&GS
Comdg. Officer
Ship HYDROGRAPHER

Tide Note

A portable tide gage was established at Dry Tortugas, Loggerhead key, Florida. This gage was used for the 1960 season. Lat. $24^{\circ}-38'$ W Long. $82^{\circ}-55'$ N Mean low water (MLW) on the staff is 2.6 feet. Time and range corrections were applied as follows:

	<u>Time Corr</u>	<u>Range Ratio</u>
South of Lat. $25^{\circ}-52'$ W	1 $1\frac{1}{2}$ hrs	1.5'
North of Lat. $25^{\circ}-52'$ W	1 3 hrs	2.0'

The 1961 tides were from a portable tide gage established at Naples, Florida.

Lat. $26^{\circ}-07.86'$ N Long. $81^{\circ}-48.47'$ W

Mean low water (MLW) on the staff is $-0.4'$ feet

Tabulation of the 1960 and 1961 tide correctors for this area follows:

Depth recorded to nearest 0.1 (fms), corrections entered to nearest 0.1 (fms)

1960 Tides

<u>Date</u>	<u>Day Letter</u> <u>1960</u>	<u>Time</u>	<u>Correction</u>
Southern Zone			
15 May	A	1730-1821	0.0
		1822-1933	0 .1
		1934-2130	0 .2
20 May	B	1030-1145	-0.2
		1146-1230	-0.1
26 May	C	2130-2330	-0.1
		2331-2400	-0.2
27 May	D	0000-0330	-0.2
		0331-0430	-0.1
10 June	E	1230-1330	-0.5
		1331-1422	-0.4
		1423-1508	-0.3
		1509-1551	-0.2
		1552-1630	-0.1
		1631-1730	0.0
1731-1930	0 .1		

<u>Date</u>	<u>Day Letter 1960</u>	<u>Time</u>	<u>Correction</u>
17 June	G	0000-0200 0201-0430	-0.2 -0.3
15 July	H	1230-1430 1430-1930	-0.2 -0.3
12 Aug	L	1630-1930 1931-2130	-0.3 -0.2
19 Aug	N	0000-0530	-0.3
5 Oct	P	1130-1430 1431-1615 1616-1900 1901-2030 2031-2215 2216-2400	-0.4 -0.3 -0.2 -0.3 -0.4 -0.5
6 Oct	Q	0000-0130 0131-0230 1630-1705 1706-1830 1831-1930	-0.5 -0.4 -0.3 -0.2 -0.3
11 Oct	R	1330-1505 1506-2400	-0.2 -0.3
12 Oct	S	0630-0655 0656-0910 0911-1130	-0.4 -0.3 -0.2
Northern Zone			
14 May	A	1900-1935 1936-2027 2028-2400	0.0 0.1 0.2
20 May	B	0730-0845 0846-1115 1116-1200	-0.3 -0.4 -0.3
27 May	D	0000-0015 0016-0145 0145-0416 0417-0500	-0.1 -0.2 -0.3 -0.2
10 June	E	1600-1629 1630-1704 1705-1735 1736-1807 1808-1852 1853-2200	-0.4 -0.3 -0.2 -0.1 0.0 0.1

<u>Date</u>	<u>Day Letter 1960</u>	<u>Time</u>	<u>Correction</u>
16 June	F	2100-2135 2136-2400	-0.4 -0.3
17 June	G	0000-0023 0024-0135 0136-0300	-0.3 -0.2 -0.3
15 July	H	1600-1627 1628-2200	-0.3 -0.4
21 July	J	1930-1945 1946-2107 2108-2300 2301-0030	-0.0 -0.1 -0.2 -0.3
4 Aug	K	2130-2325 2326-2400	-0.3 -0.4
12 Aug	L	2000-2030 2031-2400	-0.4 -0.3
18 Aug	M	2100-2400	-0.4
19 Aug	N	0000-0300	-0.4
5 Oct	P	1600-1620 1621-1735 1736-2000	-0.5 -0.4 -0.3
6 Oct	Q	0000-0023 0024-0225 0026-0325 0326-0405 0406-0451 0452-0546 0547-0946 0947-1035 1036-1130 1131-1246 1247-1548 1549-1650 1651-1820 1821-2020 2021-2145 2146-2302 2303-2355 2356-2400	-0.6 -0.7 -0.6 -0.5 -0.4 -0.3 -0.2 -0.3 -0.4 -0.5 -0.6 -0.5 -0.4 -0.3 -0.4 -0.5 -0.6 -0.5 -0.4 -0.3 -0.4 -0.5 -0.6 -0.7

Date	Day Letter <u>1960</u>	Time	Correction
11 Oct	R	2300-2400	-0.4
12 Oct	S	0000-0125	-0.4
		0126-0430	-0.5
		0431-0630	-0.6
		0631-0849	-0.5
		0850-0900	-0.4

	<u>1961</u>	<u>Tide</u>	<u>Correction</u>
Date	Day Letter <u>1961</u>	Time	Correction
3 May	T	1800-1944	0.0
		1945-2124	-0.1
		2125-2218	-0.2
		2219-2323	-0.3
		2324-2400	-0.4
15 May	U	0600-0648	-0.1
		0649-0800	-0.2
		0801-0900	-0.3
		0901-1013	-0.4
		1014-1336	-0.5
		1337-1440	-0.4
		1441-1540	-0.3
		1541-1639	-0.2
18 May	V	0100-0140	-0.2
		0141-0500	-0.3
25 May	W	0028-0400	-0.1
		0401-0500	-0.2
1 June	X	1200-1530	-0.4
		1531-1625	-0.3
		1626-1707	-0.2
		1708-1751	-0.1
9 June	Y	2023-2119	-0.3
		2120-2343	-0.4
		2344-2400	-0.3

<u>Date</u>	<u>Day Letter 1961</u>	<u>Time</u>	<u>Correction</u>
10 June	Z	0000-0230	-0.3
2 July	AA	0054-0658	-0.3
		0659-1058	-0.2
		1059-1200	-0.3
		1201-1727	-0.4
18 July	BA	2037-2400	-0.1
19 July	CA	0000-0056	-0.1
		0057-0243	-0.2
30 July	DA	0532-0942	-0.2
		0943-1029	-0.3
		1030-1128	-0.4
		1129-1622	-0.5
2 Aug	EA	0000-0056	-0.2
		0057-0204	-0.3
		0205-0405	-0.4
		0406-0443	-0.5
		0444-0744	-0.4
		0745-0843	-0.3
		0844-1018	-0.2
		1019-1218	-0.1
		1219-1408	-0.2
		1409-1554	-0.3
		1555-1835	-0.4
		1836-2108	-0.3
		2109-2400	-0.2
17 Aug	FA	1700-1733	-0.4
		1734-1935	-0.3
		1936-2400	-0.2
27 Aug	GA	1208-1440	-0.5
		1441-1541	-0.4
		1542-1632	-0.3
		1633-1723	-0.2
		1724-1820	-0.1
		1821-2110	0.0
31 Aug	HA	2150-2400	-0.2
10 Sept	JA	0252-0451	-0.3
		0452-0802	-0.2
		0803-0850	-0.3
		0851-1017	-0.4
		1018-1404	-0.5

<u>Date</u>	<u>Day Letter 1961</u>	<u>Time</u>	<u>Correction</u>
10 Sept (Con'd	JA	1405-1503	-0.4
		1504-1616	-0.3
		1617-1808	-0.2
		1809-2026	-0.1
11 Sept	KA	0000-0255	-0.4
		0256-0420	-0.3
		0421-0638	-0.2
		0639-0735	-0.1
		0736-0907	-0.2
		0908-1020	-0.3
		1021-1122	-0.4
		1122-1418	-0.5
		1419-1556	-0.4
		1557-1648	-0.3
		1649-1840	-0.2
1841-2040	-0.1		
12 Sept	LA	0000-0329	-0.4
		0330-0450	-0.3
		0451-0625	-0.2
		0626-0900	-0.1
		0901-1006	-0.2
		1007-1100	-0.3
		1101-1250	-0.4
		1251-1440	-0.5
		1441-1552	-0.4
		1553-1715	-0.3
		1716-1840	-0.2
		1841-2110	-0.1
		2111-2215	-0.2
		2216-2325	-0.3
2326-2400	-0.4		
13 Sept	MA	0000-0135	-0.4
		0136-0224	-0.5
		0225-0414	-0.4
		0415-0525	-0.3
		0526-0645	-0.2
		0646-0932	-0.1
		0933-1046	-0.2
		1047-1203	-0.3
		1204-1643	-0.4
		1644-1826	-0.3
		1827-2242	-0.2
		2243-2349	-0.3
		2350-2400	-0.4

<u>Date</u>	<u>Day Letter 1961</u>	<u>Time</u>	<u>Correction</u>
14 Sept	NA	0000-0430	-0.4
		0431-0557	-0.3
		0558-0711	-0.2
		0712-1038	-0.1
		1039-1150	-0.2
		1151-1330	-0.3
		1331-1642	-0.4
		1643-1850	-0.3
		1851-2302	-0.2
		2303-2400	-0.3
15 Sept	PA	0000-0032	-0.3
		0033-0517	-0.4
		0518-0648	-0.3
		0649-0749	-0.2
		0750-1201	-0.1
		1202-1337	-0.2
		1338-1858	-0.3
		1859-2357	-0.2
22 Sept	QA	0000-1941	-0.2
		1942-2058	-0.3
		2059-2222	-0.4
		2223-2347	-0.5
		2348-2400	-0.4
23 Sept	RA	0000-0135	-0.4
		0136-0256	-0.3
		0257-0404	-0.2
		0405-0549	-0.1
		0550-0650	-0.2
		0651-0738	-0.3
		0739-0836	-0.4
		0837-0951	-0.5
		0952-1208	-0.6
		1209-1323	-0.5
		1324-1414	-0.4
		1415-1500	-0.3
		1501-1558	-0.2
		1559-1643	-0.1
		1644-1848	0.0
		1849-1942	-0.1
		1943-2038	-0.2
		2039-2135	-0.3
2136-2250	-0.4		

<u>Date</u>	<u>Day Letter 1961</u>	<u>Time</u>	<u>Correction</u>
24 Sept	SA	0000-0052	-0.5
		0053-0158	-0.4
		0159-0248	-0.3
		0249-0406	-0.2
		0407-0648	-0.1
		0649-0738	-0.2
		0739-0827	-0.3
		0828-0916	-0.4
		0917-1037	-0.5
		1038-1250	-0.6
		1251-1410	-0.5
		1411-1505	-0.4
		1506-1611	-0.3
		1612-1715	-0.2
		1716-1920	-0.1
1921-2018	-0.2		
2019-2115	-0.3		
5 Oct	TA	1855-2025	-0.3
		2026-2400	-0.4
6 Oct	UA	0000-0030	-0.4
		0031-0209	-0.3
		0210-0610	-0.2

VELOCITY CORRECTORS FOR H - 8629

HY 80 - 2 - 60

1960 Season

14 May through 27 May ¹

6.5	7.8	0.0
7.9	- 14.4	/0.2
14.5	- 18.4	/0.3
18.5	- 21.6	/0.4
21.7	-	/0.5

4 August through 19 August ⁷

0.0	- 8.3	0.0
8.4	- 11.6	/0.3
11.7	- 14.8	/0.4
14.9	- 17.9	/0.5
18.0	- 21.0	/0.6
21.1	-	/0.7

* 10 June through 17 June ²

6.3	- 10.3	/0.2
10.4	- 14.6	/0.3
14.7	- 19.0	/0.4
19.1	-	/0.5

4 October through 6 October ⁵

9.7	- 13.8	/0.3
13.9	- 18.1	/0.4
18.2	-	/0.5

15 July through 21 July ³

8.0	- 11.5	/0.3
11.6	- 15.2	/0.4
15.3	- 18.8	/0.5
18.9	-	/0.6

11 October through 13 October ⁶

5.2	- 12.9	/0.2
13.0	- 16.3	/0.3
16.4	- 19.9	/0.4
20.0	-	/0.5

* 10 June through 17 June values come from mean of velocity curves for 26 May and 14 July .

VELOCITY CORRECTORS FOR
HY - 80 - 2 - 60 1961 Season

0.1 fms Correctors	
5.4 to 9.8	± 0.2
9.9 to 13.4	± 0.3
13.5 to 16.7	± 0.4
16.8 to 20.4	± 0.5
20.5 to 24.7	± 0.6

INSTRUMENT CORRECTIONS

Sheet 80-2-60, 1960

These Instrument Correctors are the algebraic sum of the Fathometer instrument error, draft, and settlement, and squat corrections.

Date	Draft	SPEED		Inst Corr	Inst Corr	Total Corr		Total Corr	
		Over 107RPM	Under 107RPM	Fath No. 57-31	Fath No. 153-SPX	Over 107RPM	Under 107RPM	Over 107RPM	Under 107RPM
14 May	0.08	0.10	0.00	-0.18	-0.07	0.0	-0.1	0.1	0.0
20-27 May	-0.02					-0.1	-0.2	0.0	-0.1
10 June	0.05					0.0	-0.1	0.1	0.0
15-17 June	-0.06					-0.1	-0.2	0.0	-0.1
15 July	0.05					0.0	-0.1	0.1	0.0
21 July	0.04					0.0	-0.1	0.1	0.0
4-12 Aug	0.00					-0.1	-0.2	0.0	-0.1
18-19 Aug	-0.04					-0.1	-0.2	0.0	-0.1
4-6 Oct	0.04					-0.1	-0.2	0.1	0.0
11-13 Oct	-0.02					-0.1	-0.2	0.0	-0.1

INSTRUMENT CORRECTIONS
Sheet 80-2-60, 1961

These Instrument Correctors are the algebraic sum of the Fathometer instrument error, draft, and settlement, and squat corrections.

<u>Fathometer Number</u>	<u>Phase</u>	<u>Correction</u>
153 SPX	A	0.0
57-31	A	-0.2

ABSTRACT OF RAYDIST CORRECTORS
1960

Project CS -328

HY 80-2-60

<u>DATE</u>	<u>POSITIONS</u>	<u>DAY</u>	<u>R₁</u>	<u>R₂</u>
14 May	1 - 51	A	-0.1	-0.1
14 May	52-60	A	-0.1	1.9
20 May	1 - 40	B	0.8	29.2
26 May	1 - 18	C	0.4	-1.0
27 May	1 - 37	D	0.4	-1.0
27 May	38-40	D	1.4	2.0
27 May	41 - 42	D	1.4	4.0
10 June	1 - 66	E	-0.1	0.2
16 June	1 - 26	F	0.0	2.3
17 June	1 - 36	G	0.0	2.3
15 July	1 - 65	H	0.4	0.0
21 July	1 - 25	J	-4.4	-0.2
4 Aug	1 - 2	K	0.1	-2.1
4 Aug	3 - 4	K	-1.9	-4.1
4 Aug	5	K	-2.9	-4.1
4 Aug	6 - 17	K	-1.1	-2.1
12 Aug	1 - 52	L	1.2	-0.1
12 Aug	53- 55	L	2.2	-1.1
18 Aug	1 - 29	M	-8.9	3.0
19 Aug	1	N	-8.9	3.0
19 Aug	2 - 40	N	-10.9	1.0
5 Oct	1 - 98	P	-0.5	0.2
6 Oct	1 - 199	Q	-0.5	0.2
6 Oct	200 - 209	Q	0.5	-0.8
6 Oct	210 - 217	Q	0.5	1.2
11 Oct	1 - 93	R	-0.1	0.0
12 Oct	1 - 4	S	-0.1	0.0
12 Oct	5 - 33	S	-1.1	1.0
12 Oct	34 - 39	S	-0.1	0.0
12 Oct	40 - 41	S	0.9	-1.0
12 Oct	42	S	1.9	- 2.0
12 Oct	43 - 44	S	3.9	- 2.0
12 Oct	45	S	2.9	- 1.0
12 Oct	46 - 47	S	-0.1	0.0
12 Oct	48 - 51	S	-1.1	- 1.0
12 Oct	52 - 111	S	-1.1	1.0

CORRECTION TO 1960 RAYDIST LANE COUNT
TO MAKE IT AGREE WITH 1961 LANE COUNT

1960 Lane Width 148.63145 (3307.4 Frequency) Ratio = $\frac{148.63145}{148.94669} = 0.9978835$
1961 Lane Width 148.94669 (3300.4 Frequency)

Lane Count	Correction (-)	Lane Count	Correction (-)	Lane Count	Correction (-)
To 637	1.3	2008	4.2	3519	7.4
685	1.4	2055	4.3	3567	7.5
732	1.5	2102	4.4	3614	7.6
779	1.6	2149	4.5	3661	7.7
826	1.7	2197	4.6	3708	7.8
874	1.8	2244	4.7	3756	7.9
921	1.9	2291	4.8	3803	8.0
968	2.0	2338	4.9	3850	8.1
1015	2.1	2386	5.0	3897	8.2
1063	2.2	2433	5.1	3945	8.3
1110	2.3	2480	5.2	3992	8.4
1157	2.4	2527	5.3	4039	8.5
1204	2.5	2575	5.4	4086	8.6
1252	2.6	2622	5.5	4134	8.7
1299	2.7	2669	5.6	4181	8.8
1346	2.8	2716	5.7	4228	8.9
1393	2.9	2763	5.8	4275	9.0
1441	3.0	2811	5.9	4323	9.1
1488	3.1	2858	6.0	4370	9.2
1535	3.2	2905	6.1	4417	9.3
1582	3.3	2952	6.2	4464	9.4
1630	3.4	3000	6.3	4512	9.5
1677	3.5	3047	6.4	4559	9.6
1724	3.6	3094	6.5	4606	9.7
1771	3.7	3141	6.6	4653	9.8
1819	3.8	3189	6.7	4701	9.9
1866	3.9	3236	6.8	4748	10.0
1913	4.0	3283	6.9	4795	10.1
1960	4.1	3330	7.0	4842	10.2
		3378	7.1	4890	10.3
		3425	7.2	4937	10.4
		3472	7.3	4984	10.5
				5031	10.6

11/802-60

RAYDIST CORRECTIONS 1961

Month	Day	TIME		CORRECTIONS					
				R ₁	R ₂				
May	3	0600	0630	-0.2	+0.4				
		0630	0730	-0.2	+2.4				
		0730	0826	-0.2	+4.4				
	4	12	0826	0928	+0.8	+1.4			
			0928	2400	-1.2	+1.4			
			0000	0100	-1.2	+1.4			
		13	12	1035	1127	-0.1	+0.8		
				1127	1222	-0.1	+2.8		
				1222	1428	-0.1	+3.8		
			14	13	1428	1714	-1.1	+4.8	
					1714	1720	-2.1	+5.8	
					1720	1726	-3.1	+8.8	
				15	14	1726	1922	-1.1	+6.8
						1922	2400	+1.2	+2.1
						0000	2205	+1.2	+2.1
	16	15	1205		1400	+0.2	+3.1		
			1400		1723	+0.4	+0.0		
			1723		1745	+1.4	-1.0		
		17	16	1745	2400	+2.4	-2.0		
				0000	0915	+2.4	-2.0		
				0915	1439	-0.2	-1.2		
	18	17	1439	1848	-1.2	-0.2			
			1848	2400	+0.1	+0.8			
			0000	0830	+0.1	+0.8			
24	18	1811	2400	-0.3	+1.2				
		0000	1225	-0.3	+1.2				
		1225	2400	-1.3	+2.2				
	19	17	0000	0418	-1.3	+2.2			
			0418	0924	-0.1	-0.8			
			0924	1131	+1.9	-2.8			
20	18	1658	2400	-1.4	-1.2				
		0000	0540	-1.4	-1.2				
		0540	0711	-2.4	-0.2				
	21	24	0711	0747	-1.4	-1.2			
			2120	2143	-1.3	-0.5			
			2143	2152	-0.3	-0.5			
22	24	2152	2154	-2.3	+0.5				
		2154	2157	-3.3	+1.5				
		2157	2237	-4.3	+2.5				
	23	24	2237	2317	-5.3	+3.5			
			2317	2321	-6.3	+4.5			
			2321	2350	-7.3	+5.5			
24	24	2350	2400	-6.3	+4.5				

RAYDIST CORRECTIONS 1961

Month	Day	TIME		CORRECTIONS		
				R ₁	R ₂	
May	25	0000	1150	-6.3	+4.5	
		1410	1749	+0.1	-0.3	
		1749	1903	-0.9	+0.7	
	26	1903	2146	-2.9	+2.7	
		2146	2400	-3.9	+3.7	
		0000	1137	-3.9	+3.7	
		1137	1908	-4.9	+4.7	
		1908	1941	-4.9	-0.3	
		1941	2400	+0.1	+0.7	
		27	0000	0412	+0.1	+0.7
			0746	2400	0.0	+0.2
			0000	2400	0.0	+0.2
		28	0000	0322	0.0	+0.2
			0322	2003	0.0	-3.8
		29	2003	2004	0.0	+0.2
2145	2400		+0.3	-0.2		
30	0000	1912	+0.3	-0.2		
	2135	2400	+0.3	-2.4		
	0000	1906	+0.3	-2.4		
June	9	1922	2120	-0.7	-0.4	
		2120	2400	-1.7	-1.4	
	10	0000	0520	-1.7	-1.4	
		1445	2400	0.0	-1.5	
	18	0000	0830	0.0	-1.5	
		0930	1935	+0.2	+0.7	
	27	0445	1812	0.0	+0.6	
		2154	2400	-1.1	+0.1	
	28	0000	1027	-1.1	+0.1	
		1027	1136	-1.1	+2.1	
		1345	2400	+0.2	-1.2	
	30	0000	1808	+0.2	-1.2	
		1838	2400	+0.2	+0.8	
		0000	0930	+0.2	+0.8	
	July	1	1611		-0.5	-0.8
2830			2400	+0.5	-0.5	
0000			1727	+0.5	-0.5	
2		1816	1900	+0.7	-0.4	
		1900	1909	-0.3	+0.6	
		1909	2400	-1.3	+1.6	
11		0000	0154	-1.3	+1.6	
		1030	2400	-0.3	+0.3	
		0000	2400	-0.3	+0.3	
12		0000	0820	-0.3	+0.3	
		0000		-0.3	+0.3	

RAYDIST CORRECTIONS 1961

Month	Day	TIME		CORRECTIONS		
				R ₁	R ₂	
July	13	0939	0946	-0.6	+0.7	
		1017	2400	+0.4	+0.5	
	14	0000	1507	+0.4	+0.5	
		1507	2040	+0.4	+0.5	
	15	0004	0330	-0.1	0.0	
		0330	0337	-0.1	+2.0	
		0633	0650	-0.3	+0.3	
		0804	1827	0.0	+0.5	
		1827	2400	-1.0	+1.5	
	16	0000	2400	-1.0	+1.5	
	17	0000	1403	-1.0	+1.5	
			1500	1610	-0.3	+0.3
		1646	1924	-0.3	+0.3	
		2013	2104	-1.2	+1.1	
		2210	2400	-1.3	+1.9	
		18	0000	1040	-1.3	+1.9
			1328	2400	-0.1	+0.5
		19	0000	0522	-0.1	+0.5
			0532	0548	-1.1	+1.5
		25	1845	2002	-0.2	-0.1
	2002		2035	-2.2	+1.9	
	2035		2036	-1.2	+1.9	
	26	0412	1010	0.0	-2.9	
		1202	1708	+0.6	+0.2	
		1804	2400	0.0	-1.2	
	27	0000	0509	0.0	-1.2	
		0603	2400	-0.6	+0.5	
	28	0000	0800	-0.6	+0.5	
		1252	2400	-0.2	+0.1	
	29	0000	2400	-0.2	+0.1	
	30	0000	2400	-0.2	+0.1	
31	0000	2400	-0.2	+0.1		
August	1	0000	2400	-0.2	+0.1	
	2	0000	2303	-0.2	+0.1	
		2303	2400	+0.8	0.0	
	3	0000	0030	+0.8	0.0	
	11	1245	1942	0.0	-1.2	
		2210	2400	-0.8	-0.5	
	12	0000	2400	-0.8	-0.5	
	13	0000	0448	-0.8	-0.5	
		0658	1346	-0.2	+0.6	
		1504	1636	-0.3	+0.8	
		2033	2400	-0.4	+0.8	

RAYDIST CORRECTIONS 1961

Month	Day	TIME		CORRECTIONS	
				R ₁	R ₂
August	14	0000	0047	-0.4	+0.8
		0300	1526	-0.1	+1.0
		1617	1951	+0.2	+0.1
		1951	1954	-2.8	-2.9
	15	0117	1954	-0.3	-0.8
		16	0014	1130	-0.7
	1130		1133	-3.7	+2.8
	17	1133	1139	-7.7	+6.8
		1139	1208	-8.7	+7.8
		1208	1209	-8.7	+8.8
		1209	1226	-10.7	+9.8
		1232	2400	-1.3	+0.5
		0000	0508	-1.3	+0.5
		1020	1940	+1.2	-1.5
		1940	1950	+3.2	-3.5
		1950	1953	+5.2	-5.5
		1953	2046	+6.2	-7.5
		2046	2047	+7.2	-5.5
		2047	2054	+8.2	-4.5
		2054	2056	+10.2	-7.5
		2056	2113	+13.2	-10.5
		2113	2137	+14.2	-11.5
		2137	2141	+15.2	-12.5
		2141	2155	+16.2	-13.5
	2155	2201	+17.2	-14.5	
	2201	2204	+18.2	-15.5	
	25	0345	1013	+0.2	-0.2
		1112	1858	-0.1	0.0
		2340	2400	+0.2	-0.1
	26	0000	0136	+0.2	-0.1
		0512	0542	0.0	-0.2
0709		0917	0.0	-0.2	
0917		1012	+1.0	-1.2	
1012		1823	+2.0	-2.2	
1823		2400	+1.0	-1.2	
27	0000	1147	+1.0	-1.2	
	1147	2012	+2.0	-2.2	
31	2150	2225	+9.4	+13.8	
	2225	2226	+9.4	+11.8	
	2226	2243	+11.4	+10.8	
	2243	2245	+13.4	+12.8	
	2245	2250	+13.4	+14.8	
	2250	2400	+14.4	+13.8	
September	1	0000	0047	+14.4	+13.8

RAYDIST CORRECTIONS 1961

Month	Day	TIME		CORRECTION	
		R ₁	R ₂	R ₁	R ₂
September	10	0013	0134	0.0	+0.9
		0134	0155	-1.0	+1.9
		0155	0201	0.0	+0.9
		0201	0344	+1.0	-0.1
		0344	0407	0.0	+0.9
		0407	0422	+1.0	-0.1
		0422	0440	0.0	+0.9
		0440	0513	-5.0	+5.9
		0513	0525	-4.0	+4.9
		0525	0610	-5.0	+5.9
		0610	0709	-0.4	-0.6
		0709	0737	+0.6	-0.6
		0737	0743	+1.6	-1.6
		0743	0805	+3.6	-3.6
		1112	1206	+0.4	+0.8
		1206	1227	-0.6	+1.8
		1227	1228	-1.6	+2.8
		1228	1313	-0.6	+1.8
		1313	1330	+2.4	-4.2
		1330	1337	+3.4	-2.2
		1337	1357	+2.4	-1.2
		1357	1405	+1.4	-0.2
		1405	1825	+2.4	-1.2
1825	1945	+2.2	-1.1		
1945	1948	+1.2	-0.1		
2337	2400	-0.9	+0.9		
11	0000	0125	-0.9	+0.9	
	0125	0541	-1.9	+3.9	
	0541	0800	-2.9	+2.9	
	0800	0838	-0.6	+1.6	
	0838	1520	-3.6	+4.6	
	1520	1525	-2.6	+4.6	
	1525	1530	-3.6	+4.6	
	1530	1637	-2.6	+3.6	
	1637	1917	-1.6	+2.6	
	1917	1958	-2.6	+3.6	
	1958	2006	-5.6	+6.6	
	12	2006	2012	-11.6	+12.6
0015		0029	-2.1	+2.4	
0029		0048	+0.9	-0.6	
0137		0210	-1.2	+3.3	
0210		0216	-0.2	+2.3	
0216		0404	-0.2	+3.3	

RAYDIST CORRECTIONS 1961

Month	Day	TIME		CORRECTION		
		R ₁	R ₂	R ₁	R ₂	
September	12	0404	1058	-1.2	+4.3	
		1058	1115	-0.2	+3.3	
		1115	1134	+3.8	+0.3	
		1134	1153	+3.8	-1.7	
		1153	1219	-0.1	+8.2	
		1219	1223	-1.1	+3.2	
		1223	1327	-3.1	+5.2	
		1327	1338	-4.1	+4.2	
		1338	1356	-6.1	+8.2	
		1356	1401	-7.1	+9.2	
		1401	1435	-8.1	+9.2	
		1435	1443	-6.1	+8.2	
	1443	2012	-1.2	+2.9		
	13	2320	2400	-0.2	0.0	
		0000	1337	-0.2	0.0	
		1337	1414	+0.8	-1.0	
		1414	2053	+1.8	-8.0	
		2053	2054	+1.8	-18.0	
		2112	2228	0.0	-0.2	
		2228	2308	-1.0	+0.8	
		2308	2400	-2.0	+1.8	
		14	0000	0924	-2.0	+1.8
			1620	21400	-0.3	+0.1
	15	0000	1954	-0.3	+0.1	
	22	1832	1944	+0.3	-0.1	
		1944	2007	+0.3	-1.1	
		2007	2043	+0.3	-2.1	
2043		2400	-1.7	+0.9		
23	0000	0632	-1.7	+0.9		
	0632	2400	-1.8	+1.6		
24	0000	0001	-1.8	+1.6		
	0001	1046	-1.8	+3.6		
	1046	1921	+0.4	-0.4		
	1921	2021	+0.4	+1.6		
	2021	2030	+0.4	-0.4		
	2030	2033	+0.4	+1.6		
25	2033	2400	+0.4	-0.4		
	0000	1300	+0.4	-0.4		
	1856	2052	+0.5	-2.1		
	2052	2056	-0.5	-1.1		
27	2056	2156	+0.5	-2.1		
	0813	1825	-0.2	+1.0		
	1825	2020	+0.8	0.0		

RAYDIST CORRECTIONS 1961

Month	Day	TIME		CORRECTION			
		R ₁	R ₂	R ₁	R ₂		
September	27	2020	2034	+1.8	-1.0		
		2034	2115	+1.8	+1.0		
		2115	2314	+1.8	+2.0		
October	28	0054	0806	0.0	+0.6		
	5	1758	2208	-0.3	+0.6		
6	6	2208	2400	-1.3	+1.6		
		0000	1004	-1.3	+1.6		
		1004	1823	-3.2	-0.6		
		1823	1847	-3.2	-2.6		
		1847	1853	-3.2	-4.6		
		1853	1905	-3.2	-5.6		
		1905	1907	-3.2	-5.6		
		2059	2211	-0.3	+1.0		
		2211	2012	-2.3	+3.0		
		2321	2400	-0.6	+1.0		
		7	7	0000	1841	-0.6	+1.0
				1841	1843	-0.6	-1.0
				1843	1902	-1.6	0.0
				1902	2400	-1.6	-2.0
				0000	1809	-1.6	-2.0
		8	8	1809	1831	-1.6	-3.0
				1831	1835	-1.6	-5.0
1835	1855			-1.6	-7.0		
2312	2400			-2.4	-1.7		
0000	0116			-2.4	-1.7		
9	9	0116	0135	-2.4	+0.3		
		0135	0146	-2.4	+2.3		
		0146	0452	-3.4	+3.3		
		0452	1843	-2.8	-1.7		
		1843	1855	-2.8	+0.3		
		2100	2137	-2.7	-2.5		
		2137	2144	-2.7	-0.5		
		2144	2400	-2.7	+0.5		
		0000	1800	-2.7	+0.5		
		10	19	0620	1830	-0.2	-0.6
1830	2400			-0.2	-1.6		
0000	1910			-0.2	-1.6		
2037	2139			-0.5	-1.3		
2139	2202			-0.5	+0.7		
2202	2209			-0.5	+1.7		
2209	2213			-0.5	-3.3		
20	20	2213	2215	-1.5	-3.3		
		2215	2356	-1.5	-2.3		

STATISTICS HY 80 - 2 - 60

Date	Day Letter	Volume	No Pos.	1960			
				Naut Mi Sdg Line	Dist To-From	Misc Dist	Total Naut Mi
Total	17 days	3	1029	950.3	68.8	45.9	1065.0
1961							
Total	25 days	11	1837	1700.5	991.9	532.2	3224.6
Total 1960 -	42 days	14	2916	2650.8	1060.7	578.1	4289.6

GEOGRAPHIC NAMES
Survey No. H-8629

Name on Survey											
	A	B	C	D	E	F	G	H	K		
<i>Gulf of Mexico (title)</i>											1
											2
											3
											4
											5
											6
											7
											8
											9
											10
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George M. Bee
Geographic Names
14 March 1962

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ...8629...

Records accompanying survey: Smooth sheets .1....;

boat sheets .2...; sounding vols. .15 + 4^{supplemental}; wire drag vols.;

Descriptive Reports .1....; graphic recorder envelopes ..10...;

special reports, etc. 1 Cahier - Raydist Brush Tapes.....

.....

The following statistics will be submitted with the cartographer's report on the sheet:

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

Verification by Total time Date

Reviewed by Time Date

VERIFIER'S REPORT OF HYDROGRAPHIC SURVEY NO. H-8629

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:

Verified by

Date

NAUTICAL CHARTS BRANCH

SURVEY NO. H-8629

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
25 Apr 62	1255	<i>Tieloh</i>	Before After Verification and Review <i>Critical only.</i>
5-1-62	1007	G.R. Johnson	Before After Verification and Review <i>No Corrections Applied.</i>
7/2/62	1002	O. Svendsen	Before After Verification and Review <i>No corr.</i>
9-19-62	1254	H. Radden	Before After Verification and Review <i>Fully Applied</i>
1/10/63	1113	H. QUIMBY	Before After Verification and Review <i>Examined, no correction, not adequate BP-01600 (boat sheet)</i>
1/15/63	1003	H. Quimby	Before After Verification and Review
11426 6/1/76	1255	F. B Lewis	<i>Adequate</i> Before After Verification and Review <i>Category I</i>
11429 2/15/76	1254	<i>Frank Kull</i>	<i>Adequate</i> Before After Verification and Review <i>CATEGORY I</i>
2-9-84	11420	JOE TURNER	<i>ADEQUATE</i> Before After Verification and Review <i>CATEGORY I</i> <i>APPLIED PARTLY THRU 11426 AND 11429. THE REST WAS APPLIED DIRECTLY TO 11420</i>
4-25-84	11006	<i>Steve Tartan</i>	<i>Adequate</i> Before After Verification and Review <i>Applied thru CHART 11420</i>
7-9-84	11013	JOE TURNER	<i>ADEQUATE BEFORE VERIFICATION & REVIEW. APPLIED THRU 11420.</i>
4-2-92	411	<i>Ken Foster</i>	<i>Adequately Applied - Cat I</i>

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.

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~DIVISION OF COASTAL SURVEYS~~

May 4, 1962

Division of Charts: R. H. Carstens

Plane of reference approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 8629

Locality 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. 1 (1933)

Height of mean high water above plane of reference is: 2.1 feet.

Condition of records satisfactory except as noted below:

J. M. Symons
Chief, Tides and Currents Branch
~~Chief, Division of Tides and Currents~~

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Coastal Surveys~~

March 29, 1962

Division of Charts: R. H. Carstens

Plane of reference approved in
15 volumes of sounding records for

HYDROGRAPHIC SHEET 8629

Locality North of Florida Keys, Gulf of Mexico

Chief of Party: K. S. Ulm (1960), E. H. Sheridan (1961)

Plane of reference is mean low water reading

2.6 ft. on tide staff at Loggerhead Key

3.2 ft. below B. M. NO 1 (1937)

-0.4 ft. on tide staff at Naples, Florida

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

Heights of mean high water above plane of reference at the working
grounds are as follows:

South of Lat. $25^{\circ}--52'W$ 2.1 ft.

North of Lat. $25^{\circ}--52'W$ 2.8 ft.

Naples, Florida 2.1 ft.

Condition of records satisfactory except as noted below:

J. M. Symons
Chief, Tides and Currents Branch
~~Chief, Division of Tides and Currents~~

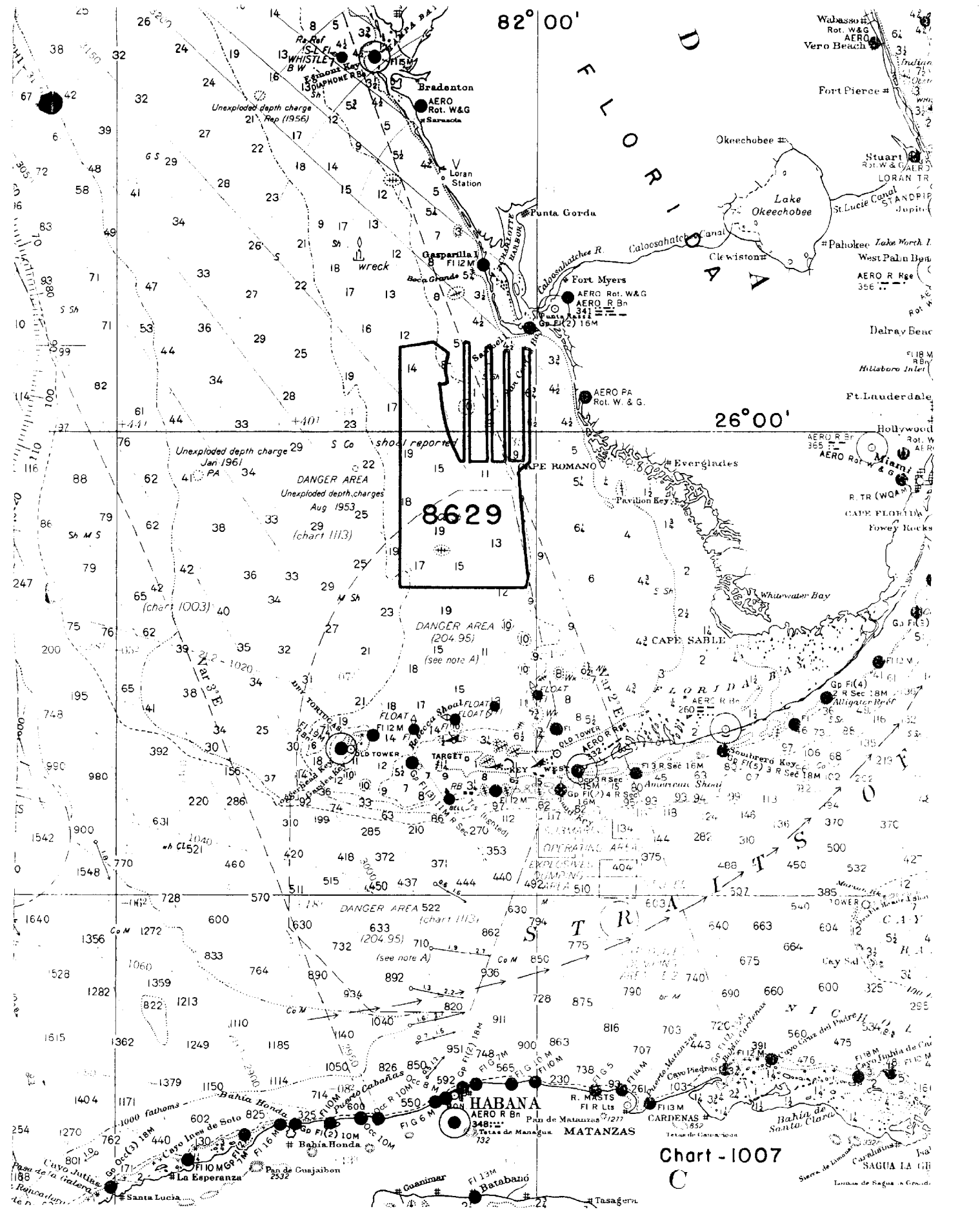


Chart - 1007
C