8013

Diag. Chs. No. 1002 and 1007-2

5-328

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. Hy-10152 *Office No.* H-8013

LOCALITY

State FLORIDA

General locality GULF OF MEXICO

Locality WEST OF SANIBEL ISLAND

19~~4~~52-53-54

CHIEF OF PARTY

JACK C. SAMMONS & L.S. HUBBARD

8-1870-1 (1)

8013

Form 537
(Ed. June 1946)

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

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

REGISTER No. H-8013

Field No. Hy-10152

State FLORIDA

General locality GULF OF MEXICO

Locality WEST OF SANIBEL ISLAND

Scale 1:100,000 Date of survey 23 July to 23 Nov. 1952
13 July to 25 Nov. 1953
10 July to 16 Nov. 1954

Instructions dated 20 March 1952, 9 March 1953 & 27 Jan. 1954

Vessel SHIP HYDROGRAPHER

Chief of party J.C. SAMMONS - 1952, L.S. HUBBARD - 1953-54

*Surveyed by R.A. EARLE, I.R. RUBOTTOM, R.M. STONE, M.T. PAULSON
E.E. JONES, R.M. BORST, C.S. FROST, P.HERTELENDY, J.D. HODGES

Soundings taken by ~~echometer~~, graphic recorder, ~~hand lead~~

Fathograms scaled by SHIP PERSONNEL

Fathograms checked by NORFOLK DISTRICT OFFICE

Protracted by W.W. FEAZEL

Soundings penciled by W.W. FEAZEL (NPD)

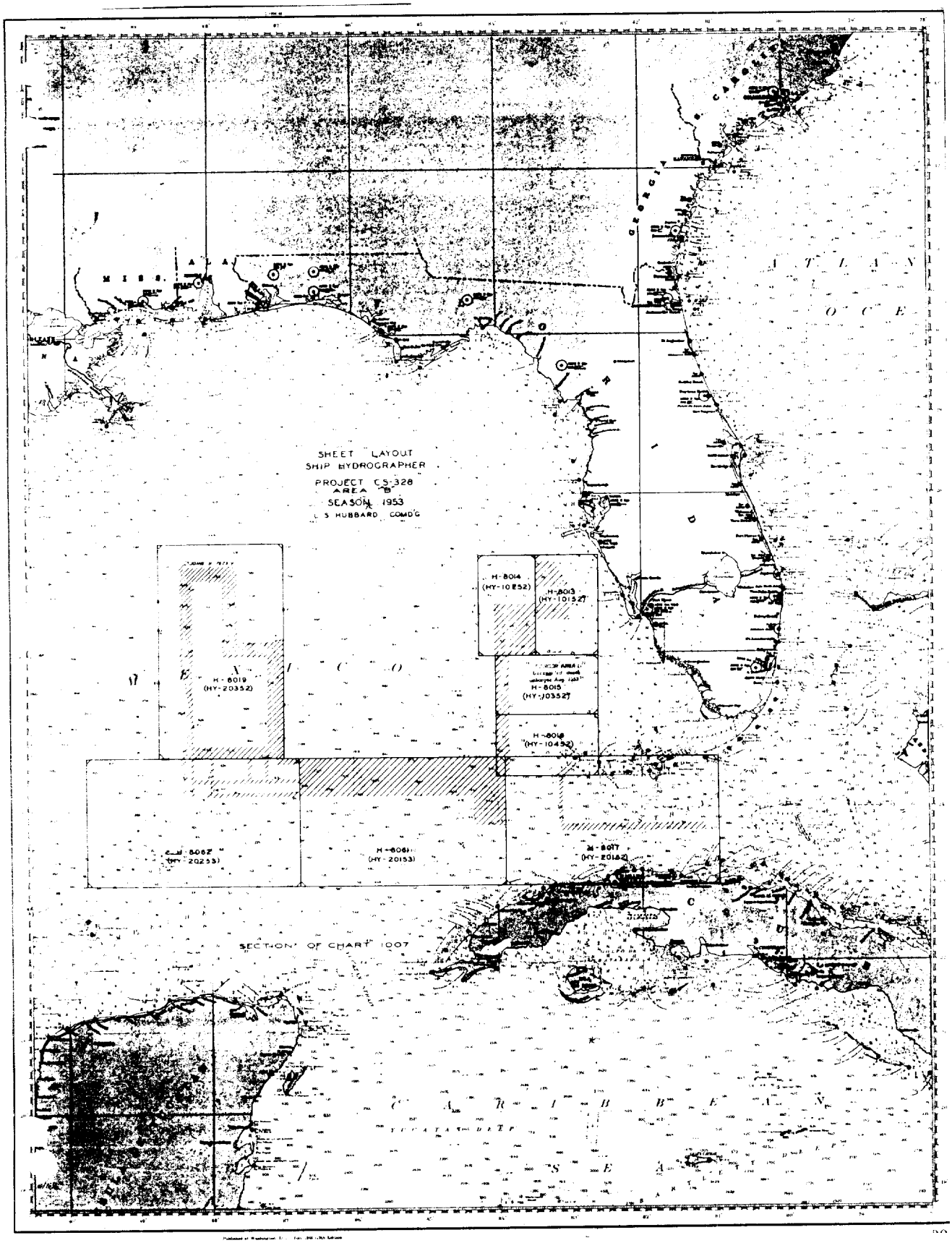
Soundings in fathoms ~~feet~~ at MLW ~~and~~ and are true depths

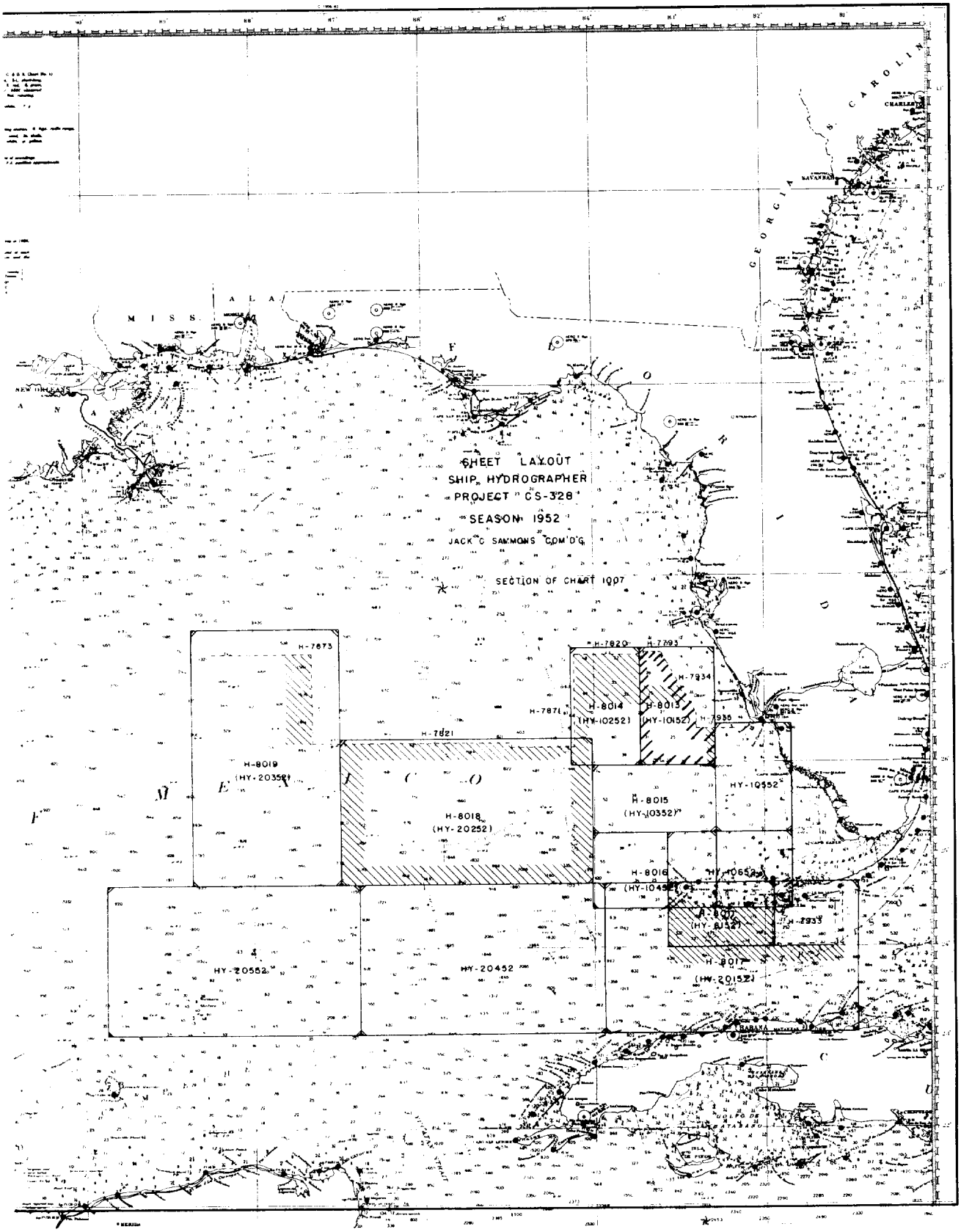
REMARKS: OFFSHORE SURVEY - CONTROLLED BY EPI

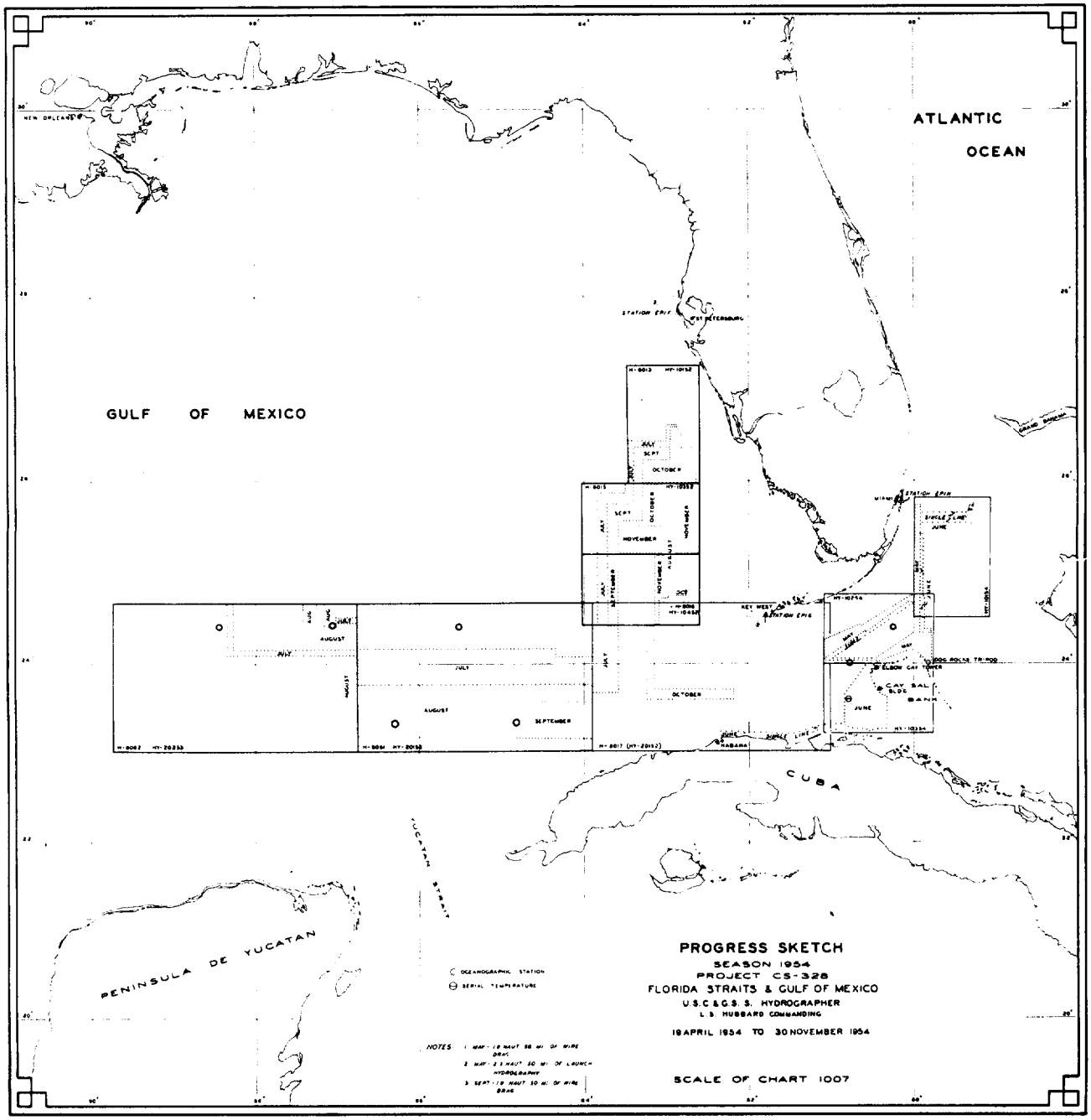
*W.J. CHOVAN, G.E. MORRIS, W.V. WARNER, A.J. RAMEY, R.T. KOOPMAN & G.W. THOMPSON

U. S. GOVERNMENT PRINTING OFFICE 777032

2852


SHEET LAYOUT
SHIP HYDROGRAPHER
PROJECT CS-328
AREA B
SEASON 1953
L S HUBBARD COMD'G
H-8014
(HY-10852)
H-8013
(HY-10152)
H-8015
(HY-10352)
H-8016
(HY-10452)
H-8019
(HY-20352)
H-8062
(HY-20253)
H-8061
(HY-20153)
H-8017
(HY-20152)
SECTION OF CHART 1007
ATLANTIC
OCEAN
GULF OF MEXICO
CARIBBEAN SEA


SHEET LAYOUT
SHIP, HYDROGRAPHER
PROJECT "CS-328"
SEASON 1952
JACK C SAMMONS COM'D'G
SECTION OF CHART 1007
H-7873
H-8019
(HY-20358)
H-7821
H-8018
(HY-20252)
H-7820
H-7793
H-7934
H-7871
H-8014
(HY-10252)
H-8013
(HY-10152)
H-7935
HY-10552
H-8015
(HY-10352)
H-8016
(HY-10452)
HY-10652
H-8017
(HY-8132)
H-7933
H-8017
(HY-20152)
HY-20552
HY-20452
MISSISSIPPI
ALABAMA
GEORGIA
SOUTH CAROLINA
SAVANNAH
CHARLESTON


ATLANTIC
OCEAN
GULF OF MEXICO
NEW ORLEANS
STATION EPIC
FT PETERSBURG
MIAMI
STATION EPIC
KEY WEST
STATION EPIC
CUBA
YUCATAN STRAIT
PENINSULA DE YUCATAN
ELBOW CAY TOWER
ROCK TRIPOD
CAY SAL BANK
HABANA
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER
JUNE
MAY
SINGLE LINE
OCEANOGRAPHIC STATION
SERIAL TEMPERATURE
PROGRESS SKETCH
SEASON 1954
PROJECT CS-328
FLORIDA STRAITS & GULF OF MEXICO
U.S.C.&G.S.S. HYDROGRAPHER
L.S. HUBBARD COMMANDING
19 APRIL 1954 TO 30 NOVEMBER 1954
SCALE OF CHART 1007

PRELIMINARY NOTES
FOR
DESCRIPTIVE REPORT

To Accompany

Hydrographic Survey H-8013 (HY-10152)

23 July to 23 November 1952
13 July to 25 November 1953
10 July to 16 November 1954

Ship HYDROGRAPHER Scale 1:100,000

Chief of Party: Jack C. Sammons 1952
L.S. Hubbard 1953 - 1954

A. PROJECT:

This survey was done under instructions for Project CS-328, dated 20 March 1952, 9 March 1953, and 27 January 1954.

B. SURVEY LIMITS AND DATES:

This survey is an offshore survey in the Gulf of Mexico. The northern edge of the sheet lies approximately 30 miles south of the entrance to Tampa Bay. See sheet index.

This survey is joined by prior surveys as follows:
1. On the northwest, H-7820, 1:100,000, 1950
2. On the north, H-7893, 1:100,000, 1951
3. On the northeast, H-7934, 1:80,000, 1951
4. On the east, H-7935, 1:80,000, 1951

This survey joins the following contemporary surveys:
1. On the south, H-8015, 1:100,000
2. On the west, H-8014, 1:100,000

Field work was done during the following periods:
23 July through 23 November 1952
13 July through 25 November 1953
10 July through 16 November 1954

C. VESSEL AND EQUIPMENT:

All work was done from the Ship HYDROGRAPHER. The turning radius of the ship is 80-120 meters, depending on the wind and/or current. No sub-parties operated from the ship.

The fathometers used were 808J Numbers 132 and 153.

D. TIDES AND CURRENTS:

No tide or current stations were occupied.

Tidal data from the primary station at Key West was used for reduction

D. TIDES AND CURRENTS (continued):

of soundings. Observed tides were used for 1952 and 1954 seasons, and predicted tides for the 1953 season.

E. SMOOTH SHEET:

The smooth sheet was plotted by the Norfolk Processing Office.

F. CONTROL STATIONS:

Control was by EPI, using stations EPI E & F in 1952 and 1953, and stations EPI F & G in 1954.

Station EPI E was located at RM 3 of triangulation station KEY 1935 and was established as an EPI station by Jack C. Sammons, Chief of Party, in 1952. The location is on Grassy Key, Monroe County, Florida.

Station EPI F was located close to triangulation station EAT 1951 and was established as an EPI station in 1952 under Jack C. Sammons, Chief of Party. The location is at Boca Ciega Bay, West Coast of Florida.

Station EPI G was located at Key West as triangulation station EPI G 1954, under L.S. Hubbard, Chief of Party. The station is on the grounds of the U.S. Naval Station, Key West, Florida.

G. SHORELINE AND TOPOGRAPHY:

None

H. SOUNDINGS:

The soundings were by fathometer. For information relative to the corrections see the Velocity Correction Reports and the Fathometer Correction Reports for 1952, 1953, and 1954. —Sp. Report in library

See H-8011 See H-8014

I. CONTROL OF HYDROGRAPHY:

Control of hydrography was by EPI, as covered in section F.

J. ADEQUACY OF SURVEY:

The survey is complete, and adequate to supersede prior surveys for charting. The junctions with adjoining surveys are satisfactory, and depth curves can be drawn adequately at the junctions.

K. CROSSLINES:

Crosslines constitute 2% of the total number of miles run. The crosslines agree to within 1 fathom on the boat sheet.

L. COMPARISON WITH PRIOR SURVEYS M. COMPARISON WITH CHARTS

To be done from the smooth sheet.

N. DANGERS AND SHOALS:

None.

O, P, Q, R, S, T

None

Z. TABULATION OF APPLICABLE DATA:

1/22/53	Velocity Correction Report 1952
3/25/54	Velocity Correction Report 1953
4/19/55	Velocity Correction Report 1954
1/21/53	Fathometer Correction Report 1952
12/13/54	Fathometer Correction Report 1953
4/19/55	Fathometer Correction Report 1954

The body of this report was prepared by an officer who was not present during any of the field work, and should be considered primarily as a review of the field work and records, rather than a descriptive report.

Hubert W. Keith Jr.
Lieutenant, C&GS

STATISTICS

For Hydrographic Survey H-8013 (HY-10152) 1952

Date	Day Letter	Volume Number	Number of Positions	Statute Miles of Sounding
1952				
23 July	A	1	31	60.7
30 July	B	1	41	62.0
5 Aug.	C	1	55	99.0
7 Aug.	D	1	21	37.0
13 Aug.	E	1	21	38.0
14 Aug.	F	1	40	69.2
22 Aug.	G	1	20	35.7
28 Aug.	H	1	19	33.6
5 Sept.	J	1	21	34.4
16 Sept.	K	1	19	68.1
25 Sept.	L	1	21	36.2
1 Oct.	M	1	20	35.7
8 Oct.	N	1	20	35.6
9 Oct.	P	1	18	30.2
16 Oct.	Q	1	17	30.1
18 Oct.	R	1	80	134.5
19 Oct.	S	2	100	181.4
23 Oct.	T	2	64	111.5
5 Nov.	U	2	19	32.7
10 Nov.	V	2	106	188.6
13 Nov.	W	2	21	36.8
18 Nov.	X	2	18	31.5
21 Nov.	Y	2	34	51.8
23 Nov.	Z	2	17	29.7
		2	843	1504.0

Ck'd: RMS

Number of Temperature and Salinity Observations in the area ------- 7 *

*(Refer to "Computation of Velocity Corrections ------1952)

Total Area Surveyed 504 Square Statute Miles

1953

STATISTICS

For Hydrographic Survey H-8013 (HY-10152) 1953

Date	Day Letter	Volume Number	Number of Positions	Statute Miles of Sounding
1953				
13 July	AA	III	22	41.4
14 July	BA	III	18	24.0
15 July	CA	III	109	163.0
16 July	DA	III	139	268.5
17 July	EA	III	32	43.5
21 July	FA	III	20	37.1
27 July	GA	III	27	48.2
28 July	HA	III	11	20.0
31 July	JA	III	20	37.0
6 August	KA	III	26	44.0
14 August	LA	III	23	42.5
20 August	MA	IV	20	32.2
28 August	NA	IV	25	43.5
3 September	PA	IV	25	44.9
12 September	QA	IV	27	45.5
21 September	RA	IV	24	45.4
6 October	SA	IV	21	38.0
7 October	TA	IV	73	131.3
8 October	UA	IV	65	100.3
12 October	VA	IV	26	48.3
16 October	WA	IV	28	48.9
21 October	XA	IV	26	48.9
28 October	YA	IV	38	64.4
4 November	ZA	IV	25	45.0
5 November	AB	V	63	110.4
6 November	BB	V	74	133.4
7 November	CB	V	16	26.9
19 November	DB	V	31	53.2
20 November	EB	V	152	254.6
21 November	FB	V	153	268.5
22 November	GB	V & VI	146	193.9
23 November	HB	VI	138	237.1
24 November	JB	VI	160	266.3
25 November	KB	VI	3	3.8
			1806	3053.9

Ck'd: PH

Number of Temperature and salinity observations in the area: 5 *

Total Area Surveyed: 1380 Square statute miles

*---Refer to "Computation of Velocity Corrections---1953"

Copy with H

Ref. No. 36-rjb

25 August 1953

To: The Commanding Officer
U.S.C. & G.S. Ship HYDROGRAPHER
P. O. Box 1259
St. Petersburg, Florida

Subject: Tide Reducers, Project CS-328

Reference is made to your letter of 19 August 1953 requesting that subject project area for the 1953 season be zoned for tide reducer purposes using St. Petersburg as the reference station.

The use of St. Petersburg as a reference station would result in relatively large time corrections. The inside location of the St. Petersburg station makes it subject to local tide conditions that would not necessarily be reflected in the project area. The project area is offshore where the time and range of tide have not been accurately determined. Under the circumstances therefore it is believed that tide reducers for the project area could be more effectively determined by using predicted tides for Key West rather than observed tides for St. Petersburg, and this procedure is authorized.

Zoning for project areas using Key West as a reference station was furnished in my letter of 31 July 1952, a copy of which is enclosed.

/s/ Robert W. Knox

Acting Director

Enclosure

1954

STATISTICS

Sheet H-8013 Ship HYDROGRAPHER

Date	Day Letter	Volume Number	Number of Positions	Statute Miles of Sounding
10 July	LB	VII	44	69.0
14	MB	VII	7	12.1
15	NB	VII	36	66.5
21	PB	VII	34	62.7
22	QB	VII	7	11.5
30	RB	VII	46	82.8
13 August	SB	VII	13	25.9
14	TB	VII	21	36.8
22	UB	VII	39	73.0
29	VB	VII	11	19.0
30	WB	VII	28	52.7
9 September	XB	VII	35	62.1
10	YB	VII	2	3.7
14	ZB	VII	22	41.4
15	AC	VII	34	57.4
24	BC	VII	33	51.6
27	CC	VII	45	72.1
28	DC	VII	13	22.1
29	EC	VII	28	46.0
6 October	FC	VII	22	40.9
7	GC	VIII	16	28.6
8	HC	VIII	20	30.7

STATISTICS (Cont.)

Sheet H-8013

Date	Day Letter	Volume Number	Number of Positions	Statute Miles of Sounding
15 October	JC	VIII	21	37.5
19	KC	VIII	23	36.1
23	LC	VIII	32	38.3
24	MC	VIII	158	267.9
25	NC	VIII	172	263.4
26	PC	VIII	112	169.2
27	QC	VIII	21	41.4
29	RC	VIII	41	65.4
11 November	SC	VIII	23	36.2
16	TC	VIII	21	37.3
			1180	1961.3

34 BT 21 BS Total Area Surveyed: 1548 sq. stat. miles

Grand Total - 1952-53-54 - 3829 — 6519.2

TIDE NOTE

H-8013

Tide Station: Key West

Latitude: 24° 33.2' N

Longitude: 81° 48.5' W

Plane of Reference: MLW = 6.0 ft. on tide staff - 1952
(Ltr. Dir. 15 Aug. 52)
MLW = 4.3 ft. on tide staff - 1954
(Ltr. Dir. 9 Aug. 54)

Area Covered: Entire Sheet

Time Correction: ∠ one hour
Height Correction: none
} - Directors Letter 31 July 1952

Tide reducers for the sheet were determined as follows:

1952 Observed tides - from Office

1953 Predicted tides - from Office

1954 Observed tides - from Office

1952

EPI CORRECTORS

Ship HYDROGRAPHER - Season 1952

Dates		EPIF	EPIE
25 June to 1 July (Sheet 8152 only)		----	-4.1
17 July to 21 July (Sheet 8152 only)		-7.8	-5.7
21 July to 23 July		-6.9	-5.2
30 July to 4 August		+2.7	+1.8
4 Aug. to 5 Aug.	2350 to 0225	+2.7	+1.8
	0226 to 0450	+2.7	+1.6
	0451 to 0715	+2.7	+1.4
	0716 to 0940	+2.8	+1.2
	0941 to 1205	+2.8	+1.0
	1206 to 1430	+2.8	+0.8
5 August to 7 August		+2.8	+0.8
13 August to 2140		-3.3	-3.7
14 August to 0510		-2.8	-0.8
14 August after 1230 to 24 November (end of hydrography)		-3.3	-3.7

Copy ✓ SHR

1953

EPI CORRECTORS
(in microseconds)

Ship HYDROGRAPHER - - Season of 1953

Period "B"- - Gulf of Mexico

SURVEYS: H-8013, (HY-10152) H-8017, (HY-20152)
H-8014, (HY-10252) H-8019, (HY-20352)
H-8015, (HY-10352) H-8061, (HY-20153)
H-8016, (HY-10452) H-8062, (HY-20253)

DATE	SURVEYS	EPI CORRECTOR			
		EPIE		EPIF	
		Regular Set #31	Spare Set #11	Regular Set #32	Spare Set #10
13 July through 25 November 1953	All Surveys	(-5.1)	(-3.7)	(-4.8)	(-3.8)

Comp by: IRR
Ck'd by: RMS

V

FATHOMETER INSTRUMENTAL CORRECTORS

1952

PERIOD "A"
(26 April to 5 August)

Surveys: H-8011 (HY-8152) H-8013 (HY-10152)
H-8015 (HY-10352) H-8016 (HY-10452)
H-8017 (HY-20152)

Fathometer, 808-J, No. 132-SG:

Scale (phase)	A	B	C	D
Correctors to 0.2 fathoms:	-0.2	+0.2	+0.2	-0.2
Correctors to 0.5 fathoms:	---	---	0.0	0.0

Fathometer, 808-J, No. 131-SG:

Scale (phase)	A	B	C	D
Correctors to 0.2 fathoms:	-0.2	+0.4	0.0	-1.2
Correctors to 0.5 fathoms:	---	---	0.0	-1.0

Fathometer, NMC-2: (Refer: Fathometer Comparisons)

Correctors to 0.5 fathoms -1.0

Comp: EEJ
Ck'd: RTK

FATHOMETER INSTRUMENTAL CORRECTORS 1952

PERIOD "E"
(5 August to end of season, 1952)

Surveys: H-8013 (HY-10152) H-8014 (HY-10252)
H-8015 (HY-10352) H-8015A (HY-10452)
H-8018 (HY-20252) H-8019 (HY-20352)

Fathometer, 808-J, No. 132-SG:

Scale (phase)	A	B	C	D
Correctors to 0.2 fathoms:	-0.2	+0.2	+0.4	0.0
Correctors to 0.5 fathoms:	---	---	+0.5	0.0

Fathometer, 808-J, No. 131-SG:

Scale (phase)	A	B	C	D
Correctors to 0.2 fathoms:	-0.2	+0.4	-0.2	-1.2
Correctors to 0.5 fathoms:	---	---	-0.5	-1.5

Fathometer, NMC-2:

Correctors to 0.5 fathoms:

Before 21 Sept. 1952, 1429, pos. 59 U .... -1.0
After 21 Sept. 1952, 1429, pos. 59 U ..... -0.0

Comp: EEJ
Ck'd: WVW

1953

FATHOMETER INSTRUMENTAL CORRECTORS

PERIOD "B"
(13 July to 25 November, 1953)

SURVEYS:

H-8013, (HY-10152)	H-8017, (HY-20152)
H-8014, (HY-10252)	H-8019, (HY-20352)
H-8015, (HY-10352)	H-8061, (HY-20153)
H-8016, (HY-10452)	H-8062, (HY-20253)

Fathometer, 808-J, No. 132-SG:

Scale (phase)	A	B	C	D
Correctors to 0.2 fathoms:	-0.2	-0.8	-1.4	-1.4
Correctors to 0.5 fathoms:	----	----	-1.5	-1.5

Fathometer, 808-J, No. 153-SPX:

Scale (phase)	A	B	C	D
Correctors to 0.2 fathoms:	-0.2	+0.8	+1.0	+0.6
Correctors to 0.5 fathoms:	----	----	+1.0	+0.5

Fathometer, NMC-2:

Correctors to 0.5 fathoms: -1.5

Comp by: RMS
Ck'd by: PH

1954

EPI CORRECTORS

(in microseconds)

GULF OF MEXICO

Surveys: H-8013, (HY-10152)
H-8015, (HY-10352)
H-8016, (HY-10452)
H-8017, (HY-20152)
H-8062, (HY-20253)

Date	EPI Corrector F		EPI Corrector G	
	Regular Set #32	Spare Set #10	Regular Set #31	Spare Set #11
10 July - 19 Oct.	-3.3	-4.5	-6.1	-9.7
23 Oct. - 11 Nov.	-6.7		-6.0	
16 Nov. - 19 Nov.	-7.9		-4.0	

Comp: GEM
Chkd: JDH

INSTRUMENTAL CORRECTIONS

1954

SHIP HYDROGRAPHER L. S. Hubbard, Comdg.

808 Fathometers

	No. 132					No. 153			
Scale	0.1	0.2	0.5	1.0 fm. corr.	Scale	0.1	0.2	0.5	1.0 fm. corr.
A	∠0.2	∠0.2			A	-0.2	-0.2		
B	-0.6	-0.6	-0.5		B	∠1.1	∠1.0	∠1.0	
C	-1.1	-1.2	-1.0		C	∠1.7	∠1.6	∠1.5	
D		-1.2	-1.5	-1.0	D		∠0.8	∠0.5	∠1.0

NMC Fathometer

Scale	0.2	0.5	1.0	2.0	4.0 fm. corr.
0-400, 400-800	-1.2	-1.5	-1.0	-2.0	
Deep			-3.0	-4.0	-4.0

Edo Fathometer

Scale	0.2	0.5	1.0	2.0	4.0 fm. corr.
0-600, 600-1200	-4.6	-4.5	-5.0	-4.0	
1200-1800				-22.0	
Deep					-20.0

VELOCITY CORRECTION TEMPLATES

AREA B

1952

SURVEYS: H-8013 (HY-10152), H-8014 (HY-10252), H-8015 (HY-10352), H-8016 (HY-10452), H-8018 (HY-20252) & H-8019 (HY-20352).

PERIOD: 22 July through 7 August 1952
(Surveys concurrently with work in Area A during this period.)

DEPTH FATHOMS From	To	TEMPLATE Meters per second
00.0	48.0	1545 A-D
48.2	153	1530 A-D
154	267	1515 A-D
268	and deeper	1500 A-D

PERIOD: 13 August through 9 October 1952

DEPTH FATHOMS From	To	TEMPLATE Meters per second
00.0	37.0	1545
37.2	131	1530
132	267	1515
268	and deeper	1500

PERIOD: 16 October through 23 November 1952

DEPTH FATHOMS From	To	TEMPLATE Meters per second
00.0	98.0	1530
98.2	267	1515
268	and deeper	1500

VELOCITY CORRECTION TEMPLATES

1953

AREA B

Gulf of Mexico

SURVEYS: H - 8013, (HY-10152) H-8016, (HY-10452) H-8061, (HY-20153)
H-8014, (HY-10252) H-8017, (HY-20152) H-8062, (HY-20253)
H-8015, (HY-10352) H-8019, (HY-20352)

PERIOD: 13 July through 25 September 1953

DEPTH FATHOMS From	To	TEMPLATE Meters per second
00.0	28.6	1545
28.8	94.0	1530
94.2	210	1515
211	and deeper	1500

PERIOD: 6 October through 25 November 1953

DEPTH FATHOMS From	To	TEMPLATE Meters per second
00.0	111.5	1530
112	210	1515
211	and deeper	1500

Comp by: RMS
Ck'd by: GWT

1954

VELOCITY TEMPLATE ABSTRACT

1954

Ship HYDROGRAPHER Project CS-328

Sheets H-8017, H-8015, H-8104, H-8112, H-8013, H-8015, H-8016, H-8018, H-8061

No. 1		No. 2		Gulf of Mexico Mean	
Depths fm	Template m/s	Depths fm	Template m/s	Depths fm	Template m/s
0-55	1545	0-75	1545	0-101	1545
55-155	1530	75-220	1530	101-280	1530
155-325	1515	220-400	1515	280-530	1515
325 & over	1500	400 & over	1500	530-2000	1500
				2000 & over	1515

Sheets H-8017, H-8105, H-8013, H-8015, H-8016, H-8018, H-8061
Gulf of Mexico Mean

Sheet H-8104
A thru M day, 5 May thru 17 May - No. 1
N thru T day, 21 May thru 26 May - No. 2
U thru end, 8 June thru end, Gulf of Mexico Mean

Sheet H-8112
A thru C day, 5 May thru 17 May - No. 1
D day, 21 May - No. 2
E day thru end, 16 June thru end - Gulf of Mexico Mean

Draft Correctors - 1952
Correctors in ±0.2 fms. & ±0.5 fms.

1952

Trip No.	Time & Date		±0.2	±0.5
1	1930-26 April	to 2000-26 April	0.0	0.0
	2001-26 April	to 1530-28 April	-0.2	0.0
2	0900- 7 May	to 2400- 7 May	0.0	0.0
	0001- 8 May	to 1900-12 May	-0.2	0.0
3	1100-24 May	to 1200-27 May	0.0	0.0
	1201-27 May	to 1500- 1 June	-0.2	0.0
4	0500- 9 June	to 0400-10 June	0.0	0.0
	0401-10 June	to 1600-13 June	-0.2	0.0
5	1200-24 June	to 2400-29 June	0.0	0.0
	0001-30 June	to 1230- 3 July	-0.2	0.0
6	0850-17 July	to 1610-23 July	-0.2	0.0
7	1600-29 July	to 2400- 2 August	0.0	0.0
	0001- 3 August	to 0800- 7 August	-0.2	0.0
8	1600-13 August	to 2400-16 August	0.0	0.0
	0001-17 August	to 2400-20 August	-0.2	0.0
	0001-21 August	to 1600-22 August	-0.2	-0.5
9	0800-28 August	to 2400- 4 September	0.0	0.0
	0001- 5 September	to 1545- 5 September	-0.2	0.0
10	0800-16 September	to 0800-22 September	0.0	0.0
	0801-22 September	to 1545-25 September	-0.2	0.0
11	0800- 1 October	to 2400- 5 October	0.0	0.0
	0001- 6 October	to 1050- 9 October	-0.2	0.0
12	0745-16 October	to 2400-22 October	0.0	0.0
	0001-23 October	to 0925-24 October	-0.2	0.0
13	0800- 5 November	to 0800-10 November	0.0	0.0
	0801-10 November	to 0940-13 November	-0.2	0.0
14	0750-18 November	to 2400-20 November	0.0	0.0
	0001-21 November	to 0800-24 November	-0.2	0.0
	0801-24 November	to 0915-25 November	-0.2	-0.5

Comp: RTK
Ck'd: EEJ

1953

ABSTRACT OF DRAFT CORRECTORS - - 1953
(Correctors in ±0.2 fms. and ±0.5 fms.)

Trip No.	Time and Date		±0.2	±0.5
1	0000 - 20 April	to 1200 - 22 April	-0.2	0.0
	1201 - 22 April	to 2400 - 24 April	-0.2	-0.5
2	0000 - 26 April	to 1200 - 27 April	0.0	0.0
	1201 - 27 April	to 1200 - 28 April	-0.2	0.0
	1201 - 28 April	to 2400 - 1 May	-0.2	-0.5
3	0000 - 5 May	to 2400 - 9 May	0.0	0.0
	0000 - 10 May	to 0800 - 15 May	-0.2	0.0
	0800 - 15 May	to 2400 - 15 May	-0.2	-0.5
4	0000 - 18 May	to 1200 - 20 May	0.0	0.0
	1201 - 20 May	to 2400 - 29 May	-0.2	0.0
5	0000 - 9 June	to 0800 - 13 June	0.0	0.0
	0801 - 13 June	to 0800 - 18 June	-0.2	0.0
	0801 - 18 June	to 2400 - 19 June	-0.2	-0.5
6	0000 - 23 June	to 2400 - 25 June	0.0	0.0
	0000 - 26 June	to 2400 - 2 July	-0.2	0.0
7	0000 - 13 July	to 2400 - 15 July	0.0	0.0
	0000 - 16 July	to 2400 - 17 July	-0.2	0.0
8	0000 - 21 July	to 0400 - 22 July	0.0	0.0
	0401 - 22 July	to 2400 - 26 July	-0.2	0.0
	0000 - 27 July	to 2400 - 31 July	-0.2	-0.5
9	0000 - 6 August	to 1200 - 9 August	0.0	0.0
	1201 - 9 August	to 0400 - 12 August	-0.2	0.0
	0401 - 12 August	to 2400 - 14 August	-0.2	-0.5
10	0000 - 20 August	to 0800 - 26 August	0.0	0.0
	0801 - 26 August	to 2400 - 28 August	-0.2	0.0
11	0000 - 3 September	to 2400 - 7 September	0.0	0.0
	0000 - 8 September	to 2400 - 12 September	-0.2	0.0
12	0000 - 21 September	to 2400 - 27 September	0.0	0.0
13	0000 - 6 October	to 2400 - 10 October	0.0	0.0
14	0000 - 12 October	to 2400 - 15 October	0.0	0.0
	0000 - 16 October	to 2400 - 16 October	-0.2	0.0
15	0000 - 21 October	to 1800 - 28 October	0.0	0.0
	1801 - 28 October	to 2400 - 29 October	-0.2	0.0
16	0000 - 4 November	to 1200 - 9 November	0.0	0.0
	1201 - 9 November	to 2400 - 12 November	-0.2	0.0
17	0000 - 19 November	to 1200 - 21 November	0.0	0.0
	1201 - 21 November	to 2400 - 25 November	-0.2	0.0

Comp by: RMS
Ck'd by: PH

1954

DRAFT CORRECTIONS

1954

Ship HYDROGRAPHER L. S. Hubbard, Comdg.

From	To	0.1 fm. corr.	0.2 fm. corr.
5 May	0936 10 May	0.0	0.0
0936 10 May	17 May	-0.1	-0.2
21 May	1912 25 May	0.0	0.0
1912 25 May	29 May	-0.1	-0.2
7 June	1424 12 June	0.0	0.0
1424 12 June	17 June	-0.1	-0.2
21 June	0448 22 June	∠0.1	0.0
0448 22 June	0000 27 June	0.0	0.0
0000 27 June	30 June	-0.1	-0.2
9 July	16 July	0.0	0.0
21 July	0000 26 July	0.0	0.0
0000 26 July	31 July	-0.1	-0.2
5 August	0000 7 August	∠0.1	0.0
0000 7 August	0330 12 August	0.0	0.0
0330 12 August	15 August	-0.1	-0.2
21 August	0000 26 August	0.0	0.0
0000 26 August	30 August	-0.1	-0.2
9 Sept.	1320 13 Sept.	0.0	0.0
1320 13 Sept.	16 Sept.	-0.1	-0.2
21 Sept.	1312 27 Sept.	0.0	0.0
1312 27 Sept.	30 Sept.	-0.1	-0.2
6 October	0000 7 October	∠0.1	0.0
0000 7 October	9 October	0.0	0.0
15 October	2136 17 October	0.0	0.0
2136 17 October	20 October	-0.1	-0.2
23 October	0448 26 October	0.0	0.0
0448 26 October	30 October	-0.1	-0.2
6 Nov.	1200 10 Nov.	0.0	0.0
1200 10 Nov.	12 Nov.	-0.1	-0.2
16 Nov.	0400 20 Nov.	-0.1	-0.2
0400 20 Nov.	21 Nov.	-0.2	-0.2

DRAFT CORRECTORS

1954

Ship HYDROGRAPHER L. S. Hubbard, Comdg.

From	To	0.5 fm. corrector
5 May	0712 30 July	0.0
0712 30 July	31 July	-0.5
5 August	1424 29 August	0.0
1424 29 August	30 August	-0.5
9 September	1000 29 October	0.0
1000 29 October	30 October	-0.5
6 November	0500 19 November	0.0
0500 19 November	21 November	-0.5

Draft correction zero for 1.0, 2.0, and 4.0 fathom correctors for all days.

APPROVAL SHEET

The field work accomplished on this survey was under the immediate supervision of Captain Jack C. Sammons in 1952 and Captain Leonard S. Hubbard in 1953 and 1954. They made daily inspections of the records, fathograms and boat sheet as the survey progressed. Captain Leonard S. Hubbard was detached prior to the processing of the field records.

The boat sheet, EPI plotting abstracts, fathograms and all related material has been sent to the Norfolk Processing Office.

The Smooth Sheet is to be plotted by the Norfolk Processing Office.

From inspecting the boat sheet the survey is considered complete and adequate and no additional field work is considered necessary.

Walter J. Chovan
CDR, C&GS
Commanding, Ship HYDROGRAPHER

NORFOLK PROCESSING OFFICE
ADDENDUM
To Accompany

HYDROGRAPHIC SURVEY H-8013 (Field No. Hy-10152)

GENERAL

This appears to be an excellent basic survey and no unusual conditions were encountered during the smooth plot.

All fathograms were check scanned and the soundings reduced with velocity templates by personnel of the Processing Office. The smooth readings are recorded in the volumes in red pencil, at revised sounding interval.

Respectfully submitted,

Hugh L. Proffitt

Hugh L. Proffitt
Cartographer

Norfolk, Va.
10 July 1957

GEOGRAPHIC NAMES

Survey No. H-8013

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Florida			(for title)							1
Gulf of Mexico			(" ")							2
Sanibel Island			(" ")							3
										4
				Names approved						5
				7-26-57 L. Heck						6
										7
Key West			(tide station)							8
										9
										10
										11
										12
										13
										14
										15
										16
										17
										18
										19
										20
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										23
										24
										25
										26
										27

M 234

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. .8013...

Records accompanying survey:

Boat sheets .1...; sounding vols. .8...; wire drag vols. .....;

bomb vols. .....; graphic recorder rolls .33-Envelopes

special reports, etc. 1-Smooth sheet, 1-Descriptive report....

and 3 Cahiers-EPI Plotting abstracts.....

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

		Prel. Verif.	
Number of positions on sheet		3829	
Number of positions checked		5	18
Number of positions revised		0	2
Number of soundings revised (refers to depth only)		50*	34
Number of soundings erroneously spaced		0	34
Number of signals erroneously plotted or transferred		0	0
Topographic details	Time	0	
Junctions	Time	16	
Verification of soundings from graphic record	Time	10	8

Prelim. verif. by [signature] 84 3-28-58

Verification by R.J. Parker ....Total time 96.. Date 12-31-60

Reviewed by [signature] ..... Time 16 Date 4-7-58

E.B. Hoose - - - - - - Time 70 --- 4-8-64

* approximate. Position Numbers clarified

Correction to Addeadum to Review.... D.W. Jones, Sr Time... 5 Date... 9/1/64

M-2232-1

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8013 FIELD NO. HY-10152

Florida, Gulf of Mexico, West of Sanibel Island

Surveyed: July 1952-Nov. 1954 Scale 1:100,000

Project No. CS-328

Soundings: Control:

808 Depth Recorder E. P. I.

Chief of Party - J. C. Sammons and L. S. Hubbard

Surveyed by - (R. A. Earle, I. R. Rubottom, R. M. Stone, M. T. Paulson, E. E. Jones, R. M. Borst, C. S. Frost, P. Hertelendy, J. D. Hodges, W. J. Chovan. G. E. Morris, W. V. Warner, A. J. Ramey, R. T. Koopman and G. W. Thompson

Protracted by - W. W. Feazel
Soundings plotted by - W. W. Feazel
Prel. Verif. by - I. M. Zeskind
Reviewed by - I. M. Zeskind Date: 4-1-58
Inspected by - R. H. Carstens
Verified & inked by - C.A.J. Pauw

1. Shoreline and Control

No shoreline is shown on this offshore survey.

The source of the control is given in the Descriptive Report.

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves were adequately delineated.

The bottom in general is undulating with sand ridges varying from 2 to 6 ft. in height.

4. Junctions with Contemporary Surveys

On the east the present survey joins H-7934 (1951) north of lat. 26°29', and H-7935 (1951) between lat. 26°20' and lat. 26°29'. Butt junctions were effected between the present survey and H-7934 and along the southern limit of H-7935. This was necessary because of differences of 2-6 ft. in depths in the junctional areas which could not readily be resolved. The differences occur in areas charted in fathoms on a scale of 1:470,940 and are of little cartographic importance. The junction with H-8328 (1956) on the southeast and H-8015 (1952-54) on the south will be considered in the reviews of those surveys. Adequate junctions were effected with H-7793 (1950) on the north, H-7820 (1950) on the northwest and H-8014 (1952-53) on the west. The transfer of depths at these junctions is deferred pending the complete verification of H-8013.

5. Comparison with Prior Surveys

H-1138 (1872), 1-600,000
H-1354 (1875-76), 1-600,000

Several dead reckoning sounding lines from these small-scale reconnaissance surveys fall within the area of the present survey. A comparison between the prior and present surveys reveals minor differences of 1-3 fms. in depths. These differences are attributed to errors in position in the dead reckoning control of the prior surveys. The present survey is adequate to supersede the prior surveys within the common area.

6. Comparison with Chart 1113 (Latest print date 10-21-57)

A. Hydrography

The charted hydrography originates with the boat sheet of the present survey (Bp. 50882), with H-1354 (1875-76), with H-1138 (1872) and with early tracklines whose sources are not readily ascertainable. Minor differences of 1-2 fms. in depths between the charted and present survey depths are noted, except as follows:

Charted depth fms.	Location		Present Survey depths fms.
	Latitude	Longitude	
26	26°26.8'	83°23.3'	29-30
25	26°21.7'	83°18.6'	29-30
25	26°17.4'	83°14.4'	28-29

The above listed charted soundings originate with an early trackline whose source is not readily ascertainable. General depths and bottom configuration of the present survey in the vicinities of the charted soundings indicates the charted soundings are out of position and should actually fall 8-10 miles to the eastward. The charted soundings should, therefore, be disregarded.

The present survey is adequate to supersede the charted hydrography.

B. Aids to Navigation

There are no aids to navigation within the area of the present survey.

7. Condition of Survey

This survey has been given only a preliminary verification. A complete statement concerning the condition of the survey is deferred until the present survey has been completely verified.

8. Project Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work Recommended

This survey is considered basic and no additional field work is recommended.

Examined and approved:

Max G. Ricketts
Chief, Nautical Chart Branch

Ernest B. Lewey
Chief, Division of Charts

Karl B. Jeffers
Chief, Hydrography Branch

Samuel B. Grenell
Chief, Division of Coastal Surveys

Addendum to Review

H-8013

Verified and inking completed by -----C. A. J. Pauw
Review addendum by----------R. S. House 4/8/64
D. W. Jones, Sr. 9/1/64
Inspected by----------I. M. Zeskind

The verification of this survey has been completed. Soundings and depth curves have been completely inked except on the southeast in the junctional area with the unverified survey H-8328.

JUNCTIONS WITH CONTEMPORARY SURVEYS

Adequate junctions were effected and inked with H-7793 (1948-50) on the north, with H-8014 (1952-53) on the west, and with H-8015 (1952-54) on the south. The junctions with H-7820 (1950) on the northwest and H-8328 (1956) on the southeast will be considered in the review of those surveys.

COMPARISON WITH CHART 1113 (latest print date 4-1-63)

The charted hydrography originates with the present survey prior to verification and review. No differences were noted between the charted depths and the present survey depths after verification and review.

CONDITION OF SURVEY

a. Completion of the verification reveals that the smooth plotting was well done.

b. The descriptive report is complete and comprehensive.

Approved:

Lorne G. Taylor
Commander, C&GS
Chief, Nautical Chart
Division

RHC

Form 712
(11-30-55)

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens

2 August 1957

Plane of reference approved in
8 volumes of sounding records for

HYDROGRAPHIC SHEET 8013

Locality Gulf of Mexico, Florida

Chief of Party: J. C. Sammons & L. S. Hubbard in 1952-1954

Plane of reference is

ft. on tide staff at

ft. below B.M.

Condition of records satisfactory except as noted below:

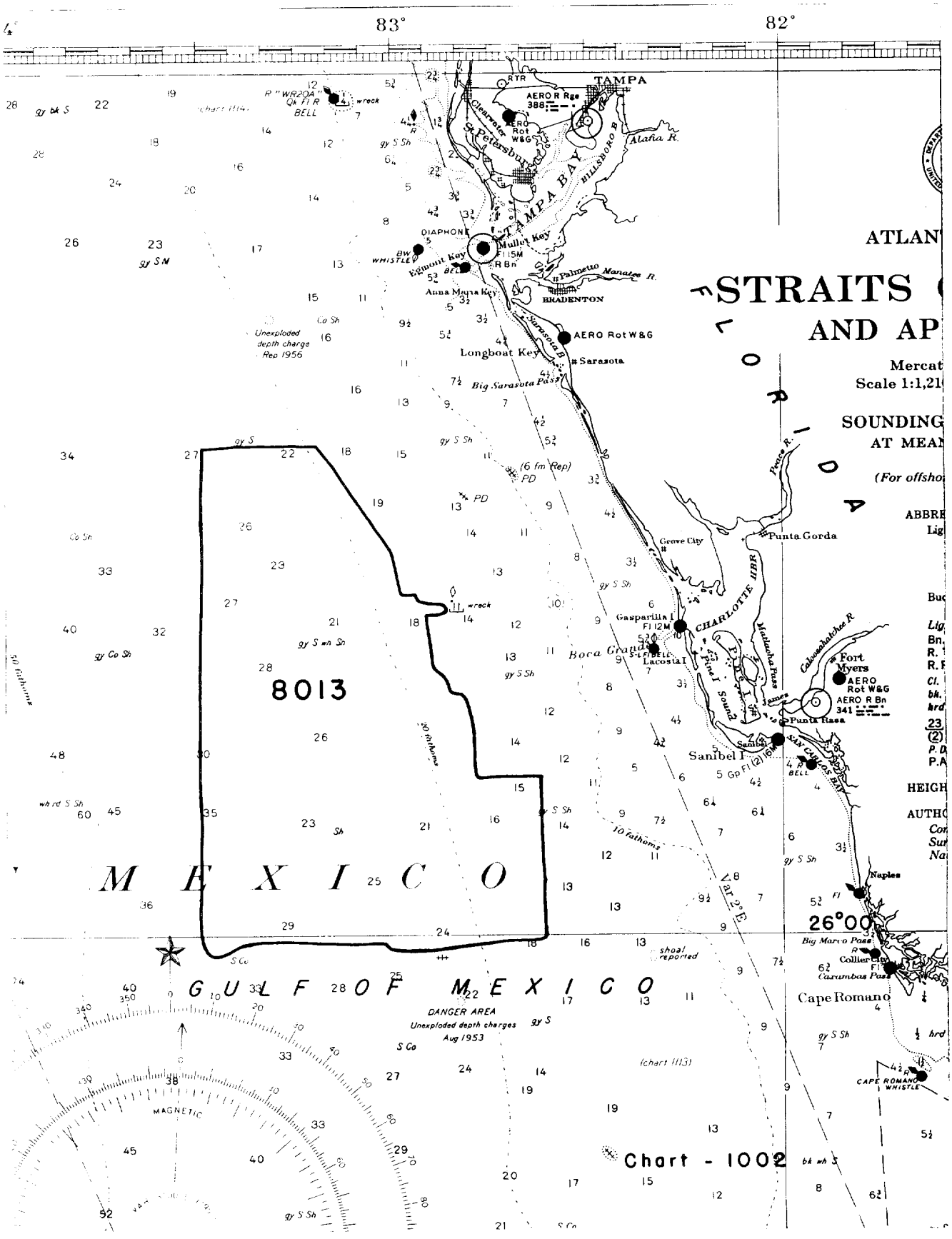
NOTE: No tide reducers entered *

* Tide reducers are part of combined reducers which are shown on the fathograms.

William Shafer
Signature

Chief, Tides Branch

Comm-DC 34330


83°
82°
TAMPA
AERO R Rge 388
AERO Rot W&G
St Petersburg
TAMPA BAY
Clearwater
Alafia R.
RTR
DIAPHONE
Mullet Key
Fl 15M
R Bn
Egmont Key
BELL
Anna Maria Key
Palmetto
Manatee R.
BRADENTON
Sarasota B.
AERO Rot W&G
Sarasota
Longboat Key
Big Sarasota Pass
Unexploded depth charge Rep 1956
Co Sh
(6 fm Rep)
PD
Peace R.
Punta Gorda
Grove City
CHARLOTTE HBR
Gasparilla I
Fl 12M
Lacosta I
Boca Grande
Pine I Sound
Pine I
Matlacha Pass
James
Punta Rassa
Fort Myers
AERO Rot W&G
AERO R Bn 341
Caloosahatchee R
Sanibel
Sanibel I
SAN CARLOS BAY
5 Gp Fl (2)
10 fathoms
8013
MEXICO
GULF OF MEXICO
DANGER AREA
Unexploded depth charges
Aug 1953
shoal reported
Naples
26°00
Big Marco Pass
Collier
Fl
Carrambas Pass
Cape Romano
CAPE ROMANO WHISTLE
(chart 1113)
Chart - 1002
MAGNETIC
FLORIDA
ATLAN
STRAITS
AND AP
Mercat
Scale 1:1,21
SOUNDING
AT MEA
(For offsho
ABBRE
Lig
Buc
HEIGH
AUTHO

NAUTICAL CHARTS BRANCH

SURVEY NO. H-8013

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
Aug 5, 57	1113	F.H. Benson	Inspected - no correction Before ~~After~~ Verification and Review 3MA
12/17/58	1113	H.W. Burgoyne	~~Before~~ After Preliminary Verification and Review — Fully applied 3MA
1/7/59	1003	J.T. Walker	~~Before~~ After Preliminary Verification and Review Fully applied
1-20-59	1007	R.K. DeLaunder	~~Before~~ After Prelim. Verification and Review Item Ch# 1003
2 Mar 59	1002	McNichols	~~Before~~ After Verification and Review Item 1003 above
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.