8015

Diag. Cht. Nos. 1002 and 1007-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. HY 10352 *Office No.* H-8015

LOCALITY

State FLORIDA

General locality GULF OF MEXICO

Locality WEST OF CAPE ROMANO

19~~4~~52-53-54

CHIEF OF PARTY

JACK C. SAMMONS & L.S. HUBBARD

LIBRARY & ARCHIVES

DATE MAY 23 1957

B-1870-1 (1)

8015

Form 537
(Ed. June 1946)

Omit fractions except for [illegible] as shown RHC

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-8015

Field No. HY-10352

State FLORIDA

General locality GULF OF MEXICO

Locality WEST OF CAPE ROMANO

Scale 1:100,000 Date of survey 23 July - 10 Nov. 1952; 14 July - 11 Nov. 1953; 10 July - 18 Nov. 1954

Instructions dated 20 Mar. 1952; 9 Mar. 1953; 27 Jan. 1954

Vessel SHIP HYDROGRAPHER

Chief of party JACK C. SAMMONS (1952) & L.S. HUBBARD (1953-54)

Surveyed by R.A. EARLE; I.R. RUBOTTOM; R.M. STONE; M.T. PAULSON & W.J. CHOVAN; G.E. MORRIS; E.E. JONES

Soundings taken by XXXXXXXXX graphic recorder, hXXXXXXXXX

Fathograms scaled by PERSONNEL OF SHIP HYDROGRAPHER

Fathograms checked by PERSONNEL OF NORFOLK DISTRICT OFFICE

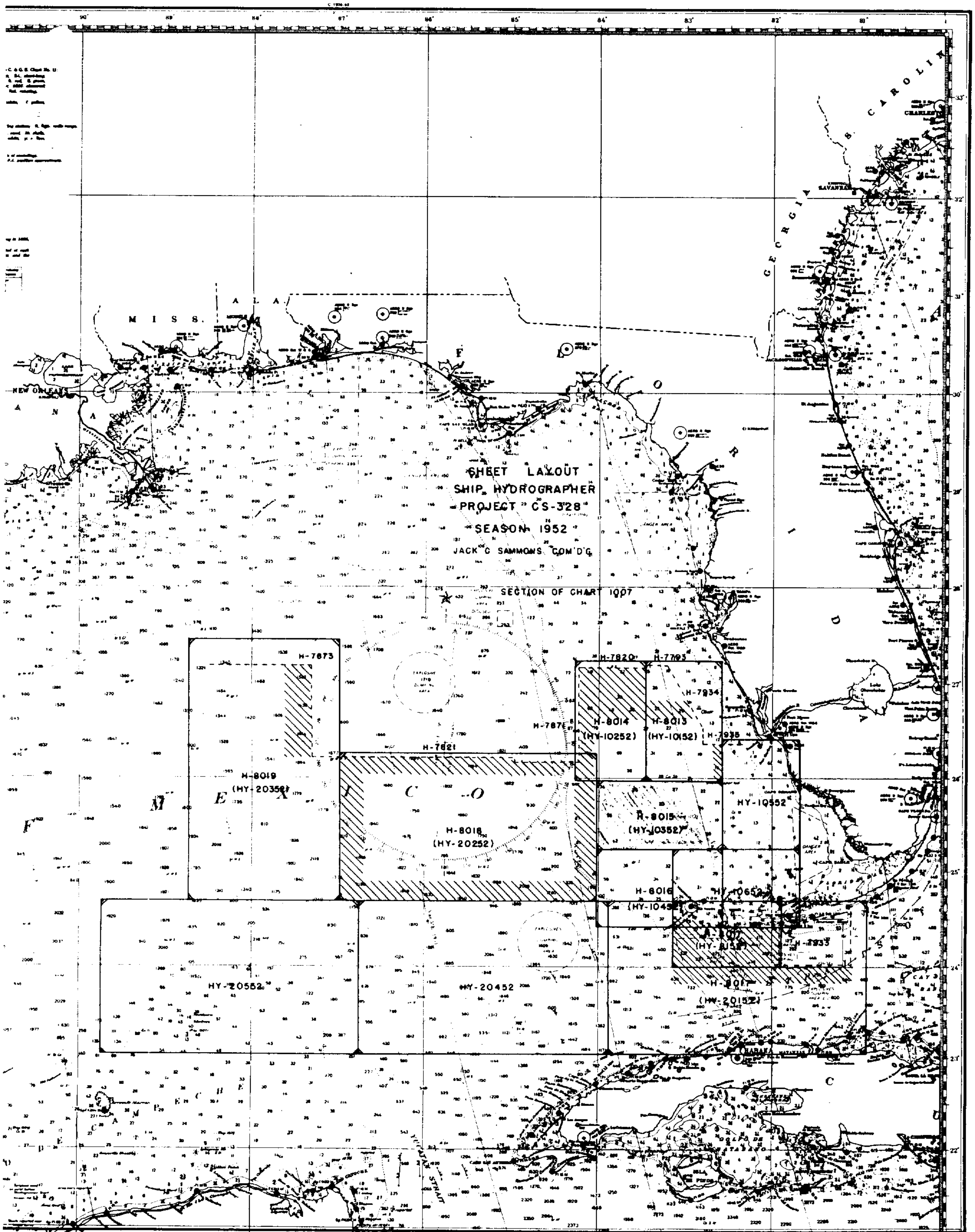
Protracted by A.K. SCHUGELD (NPO)

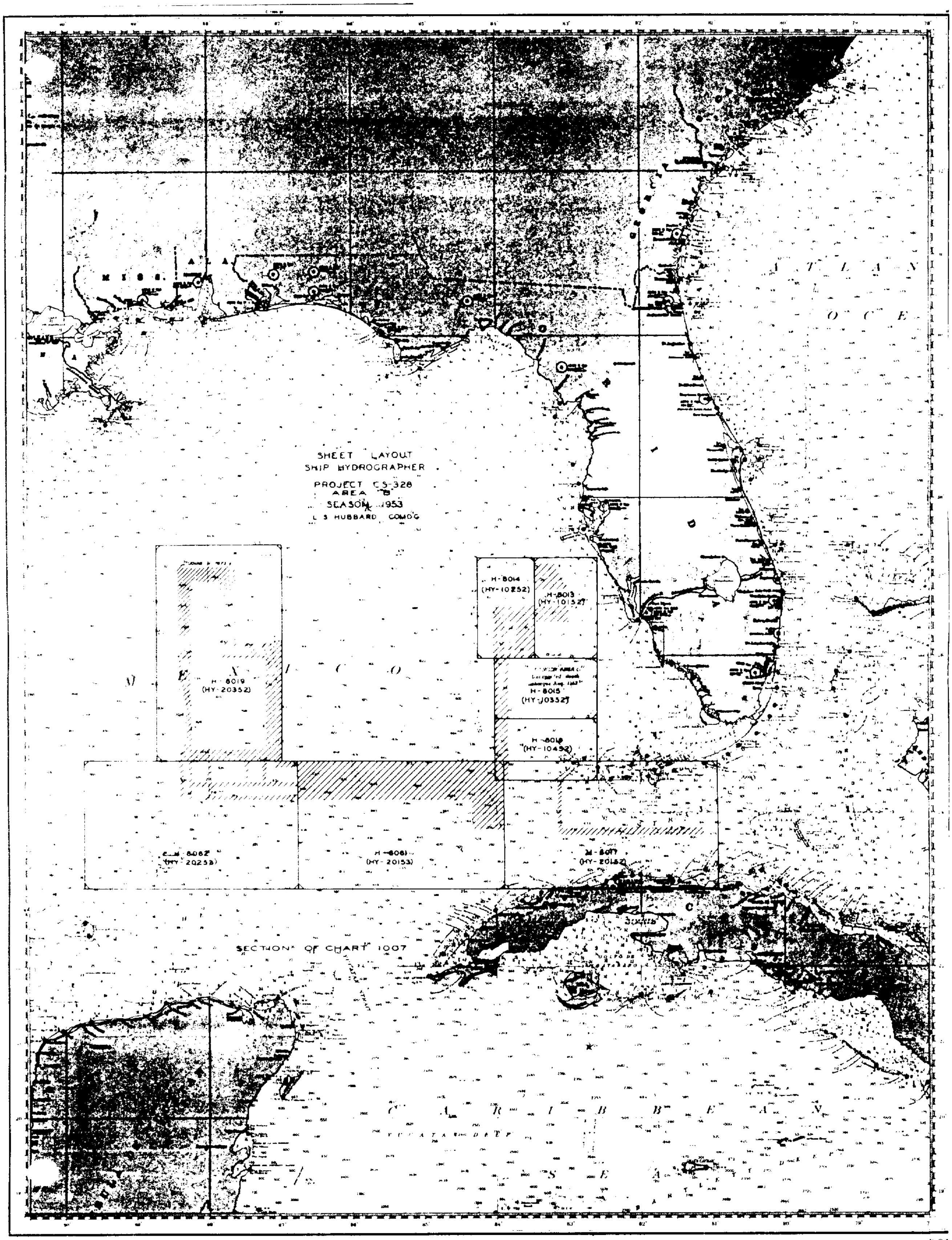
Soundings penciled by A.K. SCHUGELD

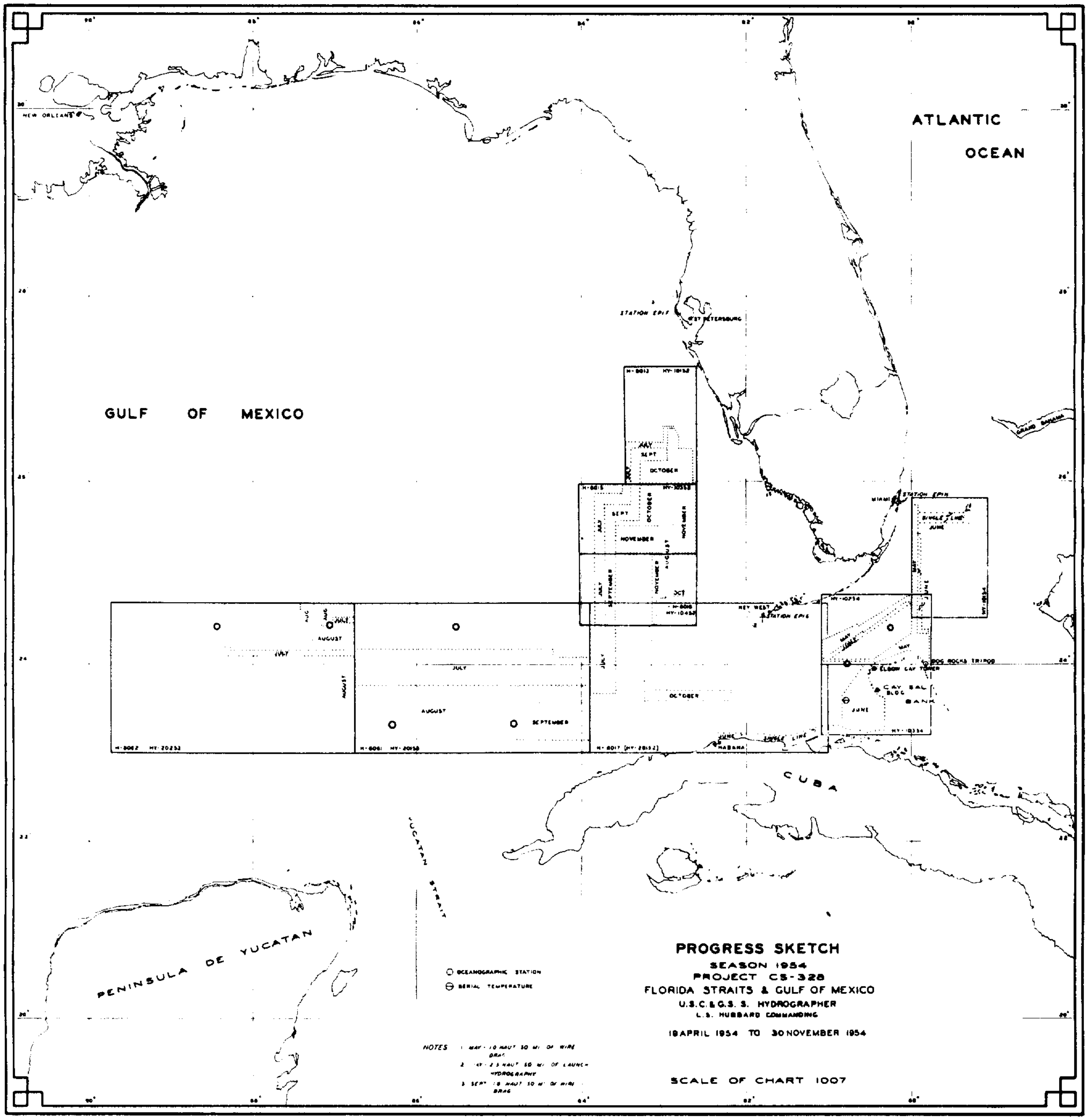
Soundings in fathoms XXX at MLW XXXXX and are true depths.

REMARKS: This survey was smooth plotted in the Hydrographic Section of the Norfolk District Office.

U. S. GOVERNMENT PRINTING OFFICE 16—66520-1


SHEET LAYOUT
SHIP HYDROGRAPHER
PROJECT CS-328
SEASON 1952
JACK C SAMMONS COM'D'G
SECTION OF CHART 1007
H-7873
H-8019
(HY-20352)
H-7821
H-8018
(HY-20252)
H-7876
H-7820
H-7793
H-7934
H-8014
(HY-10252)
H-8013
(HY-10152)
H-7935
H-8015
(HY-10352)
HY-10552
H-8016
(HY-10452)
HY-10652
H-7933
H-8017
(HY-20152)
HY-20552
HY-20452
NEW ORLEANS
SAVANNAH
GEORGIA
FLORIDA


SHEET LAYOUT
SHIP HYDROGRAPHER
PROJECT CS-328
AREA "B"
SEASON 1953
L S HUBBARD COMDG
H-8014
(HY-10252)
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
MISS.
ALA.
FLA.
GEORGIA
FLORIDA
ATLANTIC OCEAN
MEXICO
CARIBBEAN SEA
YUCATAN DEEP


GULF OF MEXICO
ATLANTIC OCEAN
NEW ORLEANS
ST PETERSBURG
MIAMI
KEY WEST
HABANA
CUBA
CAY SAL BANK
ELBOW CAY TOWER
DOG ROCKS TRIPOD
YUCATAN STRAIT
PENINSULA DE YUCATAN
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
18 APRIL 1954 TO 30 NOVEMBER 1954
SCALE OF CHART 1007

PRELIMINARY NOTES
FOR
DESCRIPTIVE REPORT

To Accompany

Hydrographic Survey H-8015 (HY-10352)

23 July 1952 to 11 November 1952
14 July 1953 to 11 November 1953
10 July to 18 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 northeast corner of the sheet lies approximately 95 miles south of the entrance to Tampa Bay. See sheet index.

The survey does not join any prior surveys.

The survey joins contemporary surveys as follows:
1. On the south, H-8016, 1:100,000
2. On the west, H-8018, 1:200,000
3. On the northwest, H-8014, 1:100,000
4. On the northeast, H-8013, 1:100,000

Field work was done during the following periods:
23 July through 10 November 1952
14 July through 11 November 1953
10 July through 18 November 1954

C. VESSEL AND EQUIPMENT:

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

The fathometers used were 808 J Nos. 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 the reduction of soundings. See the Tide Note for further information.

E. SMOOTH SHEET:

The smooth sheet ~~is to be~~ W95 plotted by the Norfolk Processing Office. ✓

F. CONTROL STATIONS:

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

Station EPI E was located at RM 3 of triangulation station KEY 1935 and was established as an EPI station in 1952, under Jack C. Sammons, Chief ✓ of Party. 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, 1954. Fath Report 1953 EPI Col. See H-8014
T&S Report for 1953. See H-8060

I. CONTROL OF HYDROGRAPHY:

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

J. ADEQUACY OF SURVEY:

This 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 5% of the total number of lines run. The crosslines ✓ in general agree within 1 fathom on the boat sheet.

L: COMPARISONS WITH PRIOR SURVEYS M. COMPARISONS WITH CHARTS

To be done from the smooth sheet. | PS & 6 Review

N. DANGERS AND SHOALS:

Shoal 25°40.5' N., 82° 37.8' W.
Shoalest depth was 14½ fathoms with indications of 12 fathoms found on Strays
BB day, 8 November 1954. One hour was spent running in the immediate area with M.P.
1

the ship to verify and try to find the least depth. The shoalest sounding came shortly after position 80 on the first indication of the shoal. Further lines showed that there was something there, but no shoaler soundings were obtained. Strays- N.P.
See Addendum about this shoal sounding-

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 as a descriptive report.

Hubert W. Keith Jr.
Lieutenant USC&GS

1952

STATISTICS

For Hydrographic Survey H-8015 (HY-10352)

Date	Day Letter	Volume Number	Number of Positions	Statute Miles of Soundings
1952				
23 July	A	1	28	58.1
30 July	B	1	29	54.3
5 Aug.	C	1	29	53.4
21 Oct.	D	1	52	80.5
9 Nov.	E	1	16	28.2
10 Nov.	F	1	14	26.0
		1	168	300.5

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

*(Refer to "Computation of Velocity Correction Report----1952")

Total area surveyed 86 Square statute miles.

1953

STATISTICS

For Hydrographic Survey No. H-8015 (HY-10352)

Date	Day Letter	Volume Number	Number of Positions	Statute Miles of Sounding
1953				
14 July	G	II	65	106.3
22 July	H	II	28	46.7
26 July	J	II	17	27.3
27 July	K	II	11	46.1
28 July	L	II	26	45.8
30 July	M	II	27	47.6
8 August	N	II	24	46.0
21 August	P	II	27	47.2
27 August	Q	II	26	46.6
4 September	R	II	24	47.6
11 September	S	II	26	47.0
22 September	T	II	23	45.8
22 October	U	II	39	63.2
26 October	V	II	36	64.6
7 November	W	III	29	54.3
11 November	X	III	19	26.2
			447	808.3

Ck'd: PH

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

Total area surveyed: 850 square statute miles

*—Refer to "Computation of Velocity Corrections"

Copy

1954

STATISTICS

Sheet H-8015 Ship HYDROGRAPHER

Date	Day Letter	Volume Number	Number of Positions	Statute Miles of Sounding
10 July	Y	IV	39	73.6
14	Z	IV	39	72.8
22	AA	IV	43	73.6
25	BA	IV	30	58.1
29	CA	IV	41	72.4
30	DA	IV	4	6.9
13 August	EA	IV	38	73.0
22	FA	IV	86	154.1
23	GA	IV	59	111.2
29	HA	IV	39	83.9
10 September	JA	IV	41	76.6
14	KA	IV	86	132.2
24	LA	IV	14	23.3
25	MA	IV	17	30.6
27	NA	IV	81	128.2
28	PA	IV	84	149.6
6 October	QA	V	9	15.5
7	RA	V	54	89.7
15	SA	V	8	13.2
16	TA	V	21	40.7
18	UA	V	24	39.2
19	VA	V	9	14.5

STATISTICS (Cont.)

Sheet H-8015

Date	Day Letter	Volume Number	Number of Positions	Statute Miles of Sounding
27 October	WA	V	82	115.0
28	XA	V	165	263.0
29	YA	V	3	2.7
6 November	ZA	V	13	20.6
7	AB	V	178	259.8
8	BB	V	183	250.1
9	CB	VI	154	238.8
10	DB	VI	159	248.3
11	EB	VI	15	17.8
16	FB	VI	15	23.7
17	GB	VI	177	253.0
18	HB	VI	111	171.4
			2121	3397.1

65 BT 61 BS Total Area Surveyed: 2711 sq. stat. miles

	Volumes	No. of Pos.	Stat. Miles of Sdg
Grand Total	6	2736	4505.9

TIDE NOTE

H-8015

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. Director 15 Aug. 52) MLW = 4.3 ft. on tide staff - 1954 (Ltr. Director 9 Aug. 54)
Area Covered:	Entire sheet
Time Correction:	none)
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 — See copy of Directors letter dated - 25 Aug. 1953

1954 Observed tides - from Office

✓

Ref. No. 36-ejb

25 August 1953

To: The Commanding Officer
U.S.C.& G.S. Ship HYDROGRAPHER
P. O. Box 1299
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 area using Key West as a reference station was furnished in my letter of 21 July 1952, a copy of which is enclosed.

/s/ Robert W. Knox

Acting Director

Enclosure

EPI CORRECTORS

1952

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

1953

EPI CORRECTORS
(in microseconds)

Ship HYDROGRAPHER - - Season of 1953

Period "B"- - Gulf of Mexico

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

1954

EPI CORRECTORS

(in microseconds)

GULF OF MEXICO

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

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: CEM
Chkd: JDH

FATHOMETER INSTRUMENTAL CORRECTIONS 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 "B"
(5 August to end of season, 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)

Fathometer, 808-J, No. 172-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-8014, (HY-10252)
H-8015, (HY-10352)
H-8016, (HY-10452)
H-8017, (HY-20152)
H-8019, (HY-20352)
H-8061, (HY-20153)
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

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
48.2	153	1530
154	267	1515
266	and deeper	1500

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

1953

VELOCITY CORRECTION TEMPLATES

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 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.

✓

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

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-8015 (Field No. Hy-10352)

GENERAL

This appears to be an excellent basic survey and no difficulty was experienced with the smooth plot. Soundings agree very well at crossings except near the western end of the survey where some crossings were in disagreement by two fathoms. The bottom in this area shows many minor irregularaties and the discrepancies are believed caused by minor position displacement. 1.6 fms WQS subtracted from sdgs. pos. 1-27H because vel. cor. +0.8 fms instead of −0.8 fms was erroneously applied to fath. depths. This brought depths at crossings as well as junction with H-8018 into agreement.

DISCREPANCIES

Positions 6 thru 24UA are not plotted on the boat or smooth sheets as EPI returns and courses are questionable. The area was covered at a later date by other sounding lines.

SOUNDINGS

All fathograms were check scanned in the Norfolk Office with templates. Smooth sheet soundings are recorded in the volumes in red pencil.

Shoal soundings on positions 80, 87 and 105 to 110BB are being submitted on a template. The indications appear to be too scattered to be wreckage and too faint to indicate shoals. They are presumed to be either strays or traces from fish. (See paragraph N in the body of the report). Considered to be strays; template destroyed.

Norfolk, Va.
17 May 1957

Respectfully submitted,
Hugh L. Proffitt
Cartographer

GEOGRAPHIC NAMES

Survey No. H-8015

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

M 234

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 8015

Records accompanying survey:

Boat sheets 1; sounding vols. 6; wire drag vols. .....; bomb vols. .....; graphic recorder rolls 11-Envelopes special reports, etc. 1-Smooth sheet, 1-Descriptive report, 1-Overlay tracing, and 2Cahiers- EPI Abstracts.

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

Number of positions on sheet		2736	
Number of positions checked		11	3
Number of positions revised		0	1
Number of soundings revised (refers to depth only)		*75	
Number of soundings erroneously spaced		0	20
Number of signals erroneously plotted or transferred		0	
Topographic details	Time	0	
Junctions	Time	8	
Verification of soundings from graphic record	Time	8	

Prel. verif. by: [signature] 38 4-8-58

Verification by C.R. Lehmann Total time 75 Date 12/29/60

Reviewed by [signature] Time 26 Date 4-14-58

* approximate

Addendum to Review R.S. House 41 4-20-64

Correction to Addendum to Review...... D.W. Jones Time... 1.0 Date... 8/31/64

M-2232-1

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8015 FIELD NO. HY-10352

Florida, Gulf of Mexico, West of Cape Romano

Surveyed July-1952-Nov. 1954 Scale 1:1-10,000

Project No. CS 328

Soundings: Control:

808 Depth Recorder E.P.I.

Chief of Party - J. C. Sammons and L. S. Hubbard,
Surveyed by - I. R. Rubottom, R. M. Stone, M. T. Paulson, W. J. Chovan, R. A. Earle G. E. Morris and E. E. Jones
Protracted by - A. J. Schugeld
Soundings plotted by - A. K. Schugeld
Prelim. Verif. by - I. M. Zeskind
Verified and inked by - C.R. Lehman
Reviewed by - I. M. Zeskind Date: 4-11-58
Inspected by - R. H. Carstens

1. Shoreline and Control

No shoreline falls within the limits of 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 is undulating and is marked by minor ridges, troughs and coral formations.

4. Junctions with Contemporary Surveys

Adequate junctions were effected with H-8018 (1952) on the west, with H-8014 (1952-53) on the northwest and with H-8013 (1954) on the northeast. The transfer of depths at these junctions is deferred pending the complete verification of junctioning surveys. Project survey H-8016, which joins the present survey on the south has not yet been received in the Washington Office. The junction here will be considered in the review of H-8016. The Project survey on the east has not yet been accomplished.

5. Comparison with Prior Surveys

H-483 (1854-5), 1-1,200,000
H-528 (1856), 1-1,662,000
H-599 (1857-8), 1-1,200,000
H-1138 (1872), 1-600,000
H-1354 (1875-6), 1-600,000

These prior surveys are of a reconnaissance nature and sparsely cover the present survey. A comparison between the prior and present surveys reveals differences in depths of 2-3 fms. These differences are attributed generally to inaccuracies in early sounding methods and to dead reckoning control.

The following soundings on chart 1113 which originate with survey H-483 (1854-5), should be disregarded. The bottom configuration and adjacent depths on the present survey indicate that the depths obtained on the early survey are inaccurate.

Charted Depth fms.	Location		H-8015 Depth-fms.
	Latitude	Longitude	
27	25°18.7'	83°03.7'	31
29	25°20.5'	83°07.0'	33
29	25°22.8'	83°10.8'	33
30	25°25.5'	83°16.8'	34
32	25°27.7'	83°19.7'	35
40	25°28.7'	83°21.9'	36

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)
Chart 1003 (Latest print date 6-3-57)

A. Hydrography

The charted hydrography originates with the prior surveys previously discussed which need no further consideration, with the boat sheet (Bp. 50884) and the smooth sheet of the present survey prior to verification and review, and with H. O. Chart 1125, dated August 1948 (Bp. 45015). Except as noted below, and under preceding item 5, only minor differences of 1-2 fms. in depths are noted.

The following soundings on chart 1003 should be disregarded. These soundings fall on the present survey in a relatively smooth bottom and are believed to be displaced in position. The charted soundings which originate with HO Chart 1125 (Bp. 45015) should actually fall 10-12 miles to the eastward where comparable depths are found on the present survey.

	Charted	Location		H-8015
Chart	depth-fms.	Latitude	Longitude	Depth-fms.
1003	52	25°14.5'	84°01.2'	73
1003	65	25°22.5'	83°58.0'	71-72
1003	53	25°34.7'	83°52.5'	66
1003	44	25°41.3'	83°51.0'	62-64

Attention is directed to the following charted features:

1. The sunken wreck charted in lat. 25°56.7', long. 82°52.3', from HON to M 32, 1953, falls in present depths of 23-24 fms. Although a number of sounding lines were run over the area in the vicinity of the charted wreck subsequent to the sinking of this vessel, it could not be found. The area in the vicinity of the wreck is not considered adequately developed on the present survey to confirm or disprove the existence of the wreck. The wreck should, therefore be retained on the charts.

2. The unexploded depth charges charted in lat. 25°50.7', long. 82°50.8', from HON to M 33, 1953, fall in present depths of 23-24 fms. These depth charges were not investigated during the present survey and should, therefore, be retained on the charts.

The present survey is adequate to supersede the charted hydrography within the common area.

B. Aids to Navigation

There are no aids to navigation within the limits 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. The preliminary verification revealed the misapplication of instrumental correction on one line of soundings which was revised 1.6 fms. to obtain correct depths.

8. Compliance with 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. However, attention is directed to the wreck mentioned in paragraph 6-A-1 above. If wire-drag investigations of the wrecks in the Gulf of Mexico are undertaken in the future, the above-mentioned wreck should be covered.

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-8015

Verified and inking completed by-----C. R. Lehman
Review Addendum by----------R. S. House 4/20/64
D. W. Jones, Sr. 8/31/64
Inspected by----------I. M. Zeskind

The verification of this survey has been completed. Soundings and depth curves have been completely inked.

JUNCTIONS WITH CONTEMPORARY SURVEYS

The soundings at the junctions with H-8013 (1952-54) on the northeast, with H-8014 (1952-53) on the northwest, and with H-8018 (1952) on the west were inked. The junctions with H-8016 (1952-54) on the southwest and southeast, with H-8630 (1961) on the south, with H-8628 (1960-61) on the southeast and with H-8629 (1960-61) on the east will be considered in the review of those surveys.

COMPARISON WITH CHART 1113 (LATEST PRINT DATE 4-1-63) AND CHART 1003 (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 and the present survey depths.

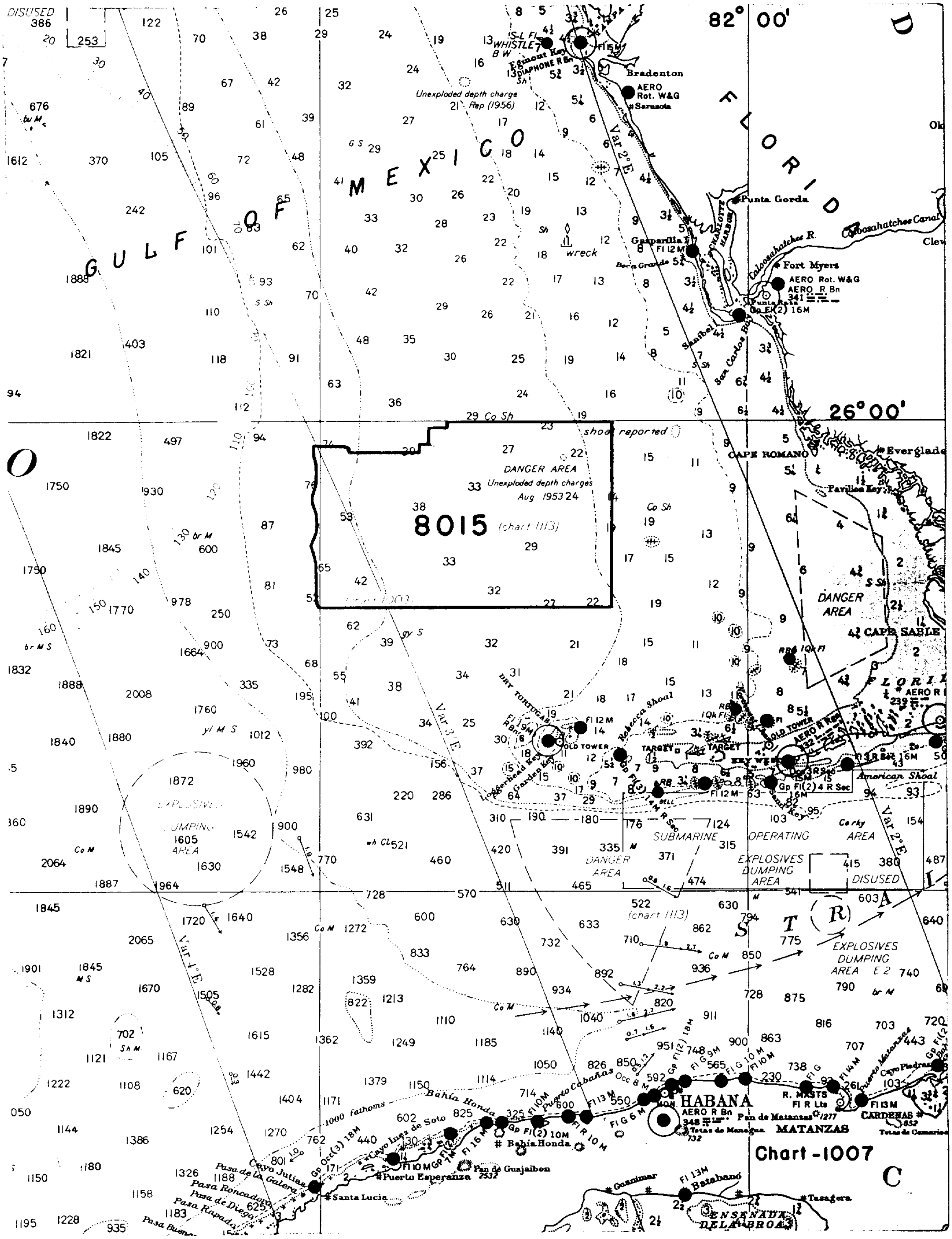
CONDITION OF SURVEY

a. Completion of the verification reveals that the smooth plotting was well done, except for the misapplication of instrumental corrections on one line of soundings. (see page 4 of the Review)

b. The Descriptive Report is complete and comprehensive.

Approved:

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



82° 00'
26° 00'
GULF OF MEXICO
FLORIDA
Egmont Key
Bradenton
Sarasota
Unexploded depth charge Rep (1956)
wreck
Punta Gorda
Charlotte Harbor
Gasparilla
Boca Grande
Caloosahatchee R.
Caloosahatchee Canal
Fort Myers
Punta Rasa
Sanibel
San Carlos Bay
shoal reported
CAPE ROMANO
Everglades
Pavilion Key
DANGER AREA
Unexploded depth charges Aug 1953
8015 (chart 1113)
DANGER AREA
CAPE SABLE
DRY TORTUGAS
Loggerhead Key
Garden Key
Rebecca Shoal
OLD TOWER
TARGET
KEY WEST
American Shoal
SUBMARINE OPERATING AREA
DANGER AREA
EXPLOSIVES DUMPING AREA
DISUSED
EXPLOSIVES DUMPING 1605 AREA
522 (chart 1113)
EXPLOSIVES DUMPING AREA E 2
STRAITS OF FLORIDA
Var 2°E
Var 3°E
Var 4°E
1000 fathoms
Bahía Honda
Puerto Cabañas
HABANA
Pan de Matanzas
MATANZAS
CARDENAS
Cayo Inez de Soto
Puerto Esperanza
Pan de Guajaibon
Santa Lucia
Cayo Jutias
Pasa de la Galera
Pasa Roncadora
Pasa de Diego
Pasa Rapada
Batabanó
ENSENADA DE LA BROA
Chart -1007

NAUTICAL CHARTS BRANCH

SURVEY NO. H-8015

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
Aug 5, 57	1113	D.H. Benson	Inspected - no correction Before ~~After~~ Verification and Review JMG Need some style to fill blank areas
12/22/58	1113	H.W. Burgoyne	Before After Preliminary Verification and Review - Fully applied. JMG
12/24/58	1003	H.W. Burgoyne	~~Before~~ After Preliminary Verification and Review - Fully applied
1-20-59	1007	R.K. DeLauder	~~Before~~ After Prelim Verification and Review Hurr Chart 1003
2 Mar 59	1002	Nichols	~~Before~~ After Prelim Verification and Review Hurr 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.