

8329

Diag. Cont. Nos: 1002, 1253, & 1250

CS-328

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHER

Field No. HY-8256 Office No. H-8329

LOCALITY

State FLORIDA

General locality Gulf of Mexico

Locality West Coast of Florida

South/West of Cape Roman

19 56

CHIEF OF PARTY

Walter J. Chovan

LIBRARY & ARCHIVES

MAR 26 1957

DATE

COMM-DC 61300

8329

- NOTE to Verifier
- ① Check for Paper alignment correction
 - ② Check for individual phase corrections
 - ③ Check for paper speed corrections.
 - ④ Check instr. & draft corr. Vol. 9 thru Vol 20
 - ⑤ Check wire comparisons

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-8329

Field No. HY-8256

State Florida

General locality Gulf of Mexico

Locality 504+1/2 West Coast of Florida, West of Cape Romano

Scale 1:80,000 Date of survey 27 Sept - 15 Nov. 1956

Instructions dated 29 Dec. 1955

Vessel SHIP HYDROGRAPHER

Chief of party Walter J. Chovan

Surveyed by CDR. C.A. George, CDR. J.E. Waugh, LT. H.W. Keith, LT(jg) E.K. McCaffrey, ENS.R.J. Black, ENS A.M. Cook, ENS.V.C. Ahlrich

Soundings taken by fathometer, graphic recorder, hand lead, wire Fathometer

Fathograms scaled by Personnel; Ship HYDROGRAPHER

Fathograms checked by Personnel; Ship HYDROGRAPHER

Protracted by ENS. William M. Tidwell

Soundings penciled by ENS. William M. Tidwell

Soundings in ~~fathoms~~ feet at MLW ~~XXXXXX~~

REMARKS:

702

DESCRIPTIVE REPORT

To Accompany

Hydrographic Survey H-8329 (Field No. HY-8256)

27 September 15 November 1957

Walter J. Chovan

Chief of Party

A. PROJECT:

This survey is part of project 13280 originally project 1328.

The Hydrography was accomplished in accordance with Supplementary Instructions project 13280, dated 29 December 1955, 22, MEK, S-2-HY, 1 March 1956, 22 MEK S-2-HY, and 11 July 1956, 22/MEK S-2-HY.

These instructions were issued by the Director to the Commanding Officer, Ship HYDROGRAPHER.

B. SURVEY LIMITS AND DATES:

This survey is off the West Coast of Florida, southwest of Cape Romano. Its boundaries are as follows: 5 fathom curve on the East, longitude $82^{\circ} 06' W$ on the West, and between latitudes $25^{\circ} 17' N$ and $25^{\circ} 50' N$. The Hydrography was begun on 27 September and was completed 15 November 1956.

Junction was made on the North with H-8328, 1956, 1:80,000. No other junction was made with this sheet and contemporary surveys.

C. VESSEL AND EQUIPMENT:

The entire survey was made with the Ship HYDROGRAPHER, turning radius of 80 - 120 meters at operating speed of approximately 10 Kn. using 808-J Fathometer serial nos, 153 SPX and 156 SPX. These Fathometers were used as recorded in the sounding volume with no specific area allotted to either of them. Either unit could be considered as a stand by. Fathometer comparisons, vertical casts, temperature and salinity stations were observed throughout the season to obtain the corrections applied to the soundings. These corrections may be found in the velocity Instrumental correction report.

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

D. TIDE AND CURRENT STATIONS:

No tide or current stations was observed within the limits of Hydrography.

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

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

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

It is recommended that a comparison of marigrams taken from portable tide gage at Port Boca Grande, Florida by the Ship SOSBEE and tidal information used in reducing sounding be made. This station at Port Boca Grande is approximately $\frac{1}{2}$ the distance from working grounds as the one used. Local weather conditions affect the tides greatly in this area.

E. SMOOTH SHEET:

The smooth sheet projection was made in the Norfolk Office by hand.

No shore line or topographic detail are on this sheet, as this was an off shore survey.

F. CONTROL STATIONS:

All the hydrography on this sheet was controlled entirely by shore stations were located on:

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

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

Caximba School Cupola - Collier County, Florida. This station was recovered by W.J.C. in 1956. As a result of this recovery, the published position of this station as listed in the Geographic Positions was found to be in error. (29 October 1956, Letter from Commanding Officer, Ship HYDROGRAPHER to the Director.) The hydrographic station Caxambas was used as a shore station. It was located by sextant angles using Caxambas Pass Light, 1935; Beach (exc.) 1955; and Cape Romano 3,

1955 (exc.) and the geographic position computed by third-order computations.

G. SHORELINE AND TOPOGRAPHY:

This is an offshore sheet hence no shoreline or topography was verified.

H. SOUNDINGS:

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

The length of the stylus was determined at the beginning of the field season and corrected as necessary.

There are "strays" on fathograms and are not confined to any specific area. The majority of them appear as dark streaks attached to the bottom. These are believed to be either fish or vegetation.

I. CONTROL OF HYDROGRAPHY:

Shoran was used for the control of this survey. The intersection of the shoran area approaches a minimum of 19° at the southwest corner of the working area. Plotting is sometimes difficult in this area but with consideration given to time and course satisfactory positions can be produced.

Correctors are entered in two parts. The first is the deviation of the zero check from the zero set. The second is the range correction as determined by the mean of values obtained by periodic calibration, and was found to be a junction of the distance. See shoran calibration report for details.

The shoran antennas of the shoran stations were trained to cover the work area at all times.

J. ADEQUACY OF SURVEY:

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

Junction with H-8328 (Field No. HY-8156) was very satisfactory, all depth curves can be adequately drawn between the two surveys and no holidays exist.

K. CROSSLINES:

Approximately 7.0% of the total hydrography on this sheet are crosslines. Discrepancies in sounding on crosslines were no more than 3% of total depth in most cases. As discussed in paragraph D an examination of tidal information taken from Port Boca Grande tide gage might very well ^{ELIMINATE} ~~eliminate~~ these crosslines, "J" day positions 52-105 and "N" day position 1-15 are shoal approximately 1 foot.

L. COMPARISON WITH PRIOR SURVEYS:

The prior survey of this area was made in 1887 and 1888 (H-1773, and H-1825 1:40,000). In general no differences were noted, However, because of age and wide spacing of the sounding lines no detail comparison is attempted.

M. COMPARISON WITH CHART:

The survey area is shown on chart, ¹²⁵⁴ 1253 and ~~1255~~, 1:80,000. No soundings were transferred to the boat sheet from the charts. In general good agreement was noted between the depth curves and soundings of this area.

N. DANGERS AND SHOALS:

No new dangers of shoals for charting purposes were found in this survey.

O. COAST PILOT INFORMATION:

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

P. AIDS TO NAVIGATION:

Cape Romano Lighted whistle buoy, No. 3786 in Light list, was located in this survey by a series of shoran fixes and gyroscope bearing to the buoy. The angle of intersection of these bearing lines are small thus causing this location to be somewhat weak. The location, as found in this survey, is approximately the same as given in the Light List. (latitude 25° 40.2' N, longitude 81° 39.2' W). This location was determined on positions 235 E, 247E, 16F, and 76F.

Q. LANDMARKS FOR CHARTS:

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

R. GEOGRAPHIC NAMES:

There are no changes in geographic names to report.

Z. TABULATION OF APPLICABLE DATA:

- Season Report* — — — — — *W. J. Chovan*
1956/35
1. Report on shoran Calibration, forwarded on 30 November 1956. *W. J. Chovan*
1956/44
 2. Report on Instrument Corrections, forwarded 17 December 1956. *W. J. Chovan*
1956/195
 3. Report on Velocity Corrections, forwarded 6 December 1956. *W. J. Chovan*
1956/37
 4. Letter relative to tide zones, copy attached.
 5. Letter relative to tidal data, copy attached.
 6. Shoran Correctors, copy attached.
 7. Velocity Correctors, copy attached.
 8. Instrumental Correctors, copy attached.

The list of applicable correctors for this survey are attached.

Respectfully Submitted

William M. Tidwell
William M. Tidwell
ENS., C&GS

APPROVED AND FORWARDED:

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

TIDE NOTE

To Accompany

Hydrographic Survey H-8329 (HY-8256)

TIDE STATION: St. Petersburg, Tampa Bay, Florida

LATITUDE: 27° 46' N

LONGITUDE: 82° 37' W

PLANE OF REFERENCE: Mean low water 3.4 feet on tide staff (Assistant Director Letter of 8 October 1956; 36-477-98zh)

AREA COVERED: See attached copy of Letter from Assistant Director, 24 July 1956; 36-338-98zh)

TIME CORRECTION: See attached Letter.

HEIGHT CORRECTION: See attached Letter.

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

STATISTICS

TO ACCOMPANY

SHEET H-8329 (HY-8256)

| DATE 1956 | DAY LETTER | VOLUME | NO. OF POS. | NAUT. MI. SDG. LINES |
|--------------|---------------|--------------|----------------|-------------------------|
| 27 Sept. | A | 1 | 211 | 155.0 |
| 28 | B | 1,2 | 301 | 231.7 |
| 1 Oct. | C | 3,4 | 306 | 204.4 |
| 9 | D | 4,5 | 299 | 207.0 |
| 10 | E | 5,6 | 300 | 216.4 |
| 11 | F | 6,7 | 262 | 196.3 |
| 12 | G | 7 | 186 | 115.9 |
| 13 | H | 8 | 276 | 194.9 |
| 27 | J | 9,10 | 296 | 214.6 |
| 28 | K | 10,11 | 327 | 210.8 |
| 29 | L | 11,12 | 315 | 211.9 |
| 30 | M | 12,13 | 253 | 189.1 |
| 8 Nov. | N | 13,14 | 215 | 151.3 |
| 9 | P | 14 | 149 | 104.2 |
| 10 | Q | 14 | 13 | 9.0 |
| 11 | R | 14,15 | 312 | 222.0 |
| 12 | S | 16 | 278 | 184.0 |
| 13 | T | 17,18 | 302 | 229.7 |
| 14 | U | 18,19 | 308 | 212.0 |
| 15 | V | <u>19,20</u> | <u>248</u> | <u>173.6</u> |
| TOTALS | W | 20 | 5157 | 3633.8 |

AREA SURVEYED 783.4 SQ. NAUT. MI.

24 July 1956

To: The Commanding Officer
 U. S. C. & G. S. Ship HYDROGRAPHER
 c/o U. S. Naval Station
 Key West, Florida

Subject: Tide Zones - Project 13280

Reference is made to your letter of 16 July 1956.

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

| <u>Position</u> | <u>Time Difference</u> | <u>Height Difference (H. W.)</u> |
|--|------------------------|----------------------------------|
| 1. (South of Lat. $26^{\circ} 00'$) (East of Long. $82^{\circ} 00'$) | -1 Hr. | $\neq 1.0$ Ft. |
| 2. (North of Lat. $26^{\circ} 00'$) (East of Long. $82^{\circ} 20'$) | -1 Hr. | $\neq 0.5$ Ft. |
| 3. (Lat. $25^{\circ} 00'$ - Lat. $26^{\circ} 00'$) (West of Long. $82^{\circ} 00'$) | -2 Hr. | 0 |
| 4. (North of Lat. $26^{\circ} 00'$) (West of Long. $82^{\circ} 20'$) | -2 Hr. | 0 |

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

36-477-982ho

October 8, 1956

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

Subject: Tidal Data, St. Petersburg

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

/s/ Robert W. Knox
Assistant Director

SHORAN CORRECTIONS

Ship HYDROGRAPHER
Indicator CRV-1111

Survey H-8329 (HY-8256)
Transmitter CRV-1305

Zero Set 99.782

99.780

| EFFECTIVE | RATE (EVE) | | DRIFT (NAP) | |
|-------------|------------|--------|-------------|--------------------|
| | Distance | Corr'n | Distance | Corr'n |
| 1A 27 Sept. | 15.0-35.2 | -0.020 | 5.0-17.5 | f 0.010 |
| to | 35.2-37.5 | -0.025 | 17.5-20.0 | f 0.005 |
| 96J 27 Oct. | 37.5-39.3 | -0.030 | 20.0-22.5 | 0.000 |
| | 39.3-41.2 | -0.035 | 22.5-25.0 | -0.005 |
| | 41.2-42.7 | -0.040 | 25.0-27.5 | -0.010 |
| | 42.7-44.3 | -0.045 | 27.5-30.0 | -0.015 |
| | 44.3-45.7 | -0.050 | 30.0-32.6 | -0.020 |
| | 45.7-47.3 | -0.055 | 32.6-35.1 | -0.025 |
| | over-47.3 | -0.060 | 35.1-37.7 | -0.030 |
| | | | 37.7-40.1 | -0.035 |
| | | | 40.1-42.7 | -0.040 |
| | | | 42.7-45.1 | -0.045 |
| | | | over-45.1 | -0.050 |

| EFFECTIVE | RATE (EVE) | | DRIFT (CAX) | |
|-----------------|------------|--------|-------------|--------------------|
| | Distance | Corr'n | Distance | Corr'n |
| * 97J 27Oct. | 15.0-35.2 | -0.020 | 5.0-15.5 | f 0.015 |
| to | 35.2-37.5 | -0.025 | 15.5-19.0 | f 0.010 |
| 248V 15 Nov. | 37.5-39.3 | -0.030 | 19.0-22.0 | f 0.005 |
| | 39.3-41.2 | -0.035 | 22.0-24.3 | 0.000 |
| | 41.2-42.7 | -0.040 | 24.3-26.8 | -0.005 |
| | 42.7-44.3 | -0.045 | 26.8-29.5 | -0.010 |
| | 44.3-45.7 | -0.050 | 29.5-32.0 | -0.015 |
| | 45.7-47.3 | -0.055 | 32.0-34.7 | -0.020 |
| | over 47.3 | -0.060 | 34.7-37.3 | -0.025 |
| | | | 37.3-40.0 | -0.030 |
| | | | 40.0-42.5 | -0.035 |
| | | | 42.5-45.2 | -0.040 |
| | | | 45.2-48.0 | -0.045 |
| | | | over 48.0 | -0.050 |

SHORAN CORRECTORS
Ship HYDROGRAPHER Survey H-8329 (HY-8256)
(Spare Set)

| EFFECTIVE | RATE (EVE) | |
|--------------|------------|--------|
| | Distance | Corr'n |
| *From 89S | 15.0-19.5 | -0.010 |
| to | 19.5-29.5 | -0.015 |
| 181S 12 Nov. | 29.5-33.5 | -0.020 |
| and | 33.5-36.2 | -0.025 |
| 105N to | 36.2-38.3 | -0.030 |
| 128N 8 Nov. | 38.3-39.8 | -0.035 |
| | 39.8-41.5 | -0.040 |
| | 41.5-43.3 | -0.045 |
| | 43.3-44.7 | -0.050 |
| | 44.7-46.3 | -0.055 |
| | over 46.3 | -0.060 |

DRAFT CORRECTIONS

SHIP HYDROGRAPHER

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

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

VELOCITY CORRECTIONS
 Sheets HY 8156, HY 8256

27 July - 31 October

Table 1

| From | To | Correction |
|---------|----------|------------|
| 0.0 ft. | 20.0 ft. | 0.0 ft. |
| 20.5 | 37.0 | ∕ 0.5 |
| 37.5 | 54.0 | ∕ 1.0 |
| 54.5 | 66.0 | ∕ 1.5 |
| 67.0 | 70.0 | ∕ 1.0 |
| 71.0 | 104.0 | ∕ 2.0 |

8 November - 16 November

Table 2

| | | |
|------|------|-------|
| 0.0 | 24.0 | 0.0 |
| 24.5 | 47.5 | ∕ 0.5 |
| 48.0 | 96.0 | ∕ 1.0 |

INSTRUMENTAL CORRECTIONS

SHEET HY 8156, HY 8256

FATHOMETER 156

Entire Season

| Scale | Correction |
|-------|------------|
| A | 0.0 ft. |
| B | ∕ 2.0 |
| C | ∕ 4.0 |

FATHOMETER 153

27 July - 1 October

| | |
|---|-------|
| A | - 0.5 |
| B | ∕ 1.0 |
| C | ∕ 1.0 |

9 October - 31 October

| | |
|------------------|-------|
| A | - 1.5 |
| B Through 66 ft. | ∕ 0.5 |
| B over 66 ft. | 0.0 |

8 November - 16 November

| | |
|---|-------|
| A | - 1.5 |
| B | 0.0 |

APPROVAL

The records, boat sheets and smooth sheets for Survey HY- 8256 are approved as submitted. All work was done under my personal supervision. The boat sheet was examined each day and the sounding and fathograms were inspected frequently. This survey is complete and adequate for its purpose as outlined in the instructions.



Walter J. Novan
CAPT, C&GS
Comdg., Ship HYDROGRAPHER

GEOGRAPHIC NAMES
 Survey No. H-8329

| 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 |
|-----------------------|-------------------|-----------------------------|-------------------------------|-----------------------------|--------------------|-------------------------|-------------------------|-----------------------|----|
| <u>Florida</u> | } | for | title | | | | | Baty | 1 |
| <u>Cape Romano</u> | } | | | | | | | | 2 |
| | | | | | | | | | 3 |
| | | | | | | | | | 4 |
| | | | | | | | | | 5 |
| | | | | | | | | | 6 |
| <u>St. Petersburg</u> | | | (Tide station) | | | | | | 7 |
| | | | | | | | | | 8 |
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| | | | | | | | | | 26 |
| | | | | | | | | | 27 |

Names approved
 4-18-57 L. Heek

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 8329....

Records accompanying survey:

Boat sheets ..1.; sounding vols. 20...; wire drag vols.;
bomb vols.; graphic recorder rolls 35-Envelopes
special reports, etc. 1-Smooth sheet, 1-Descriptive report,....
and 1-Cahier: 1-Vol. Shore Plotting Abstracts.....

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 |

Verification by.....Total time Date

Reviewed by..... Time Date

TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens

23 April 1957

Plane of reference approved in
20 volumes of sounding records for

HYDROGRAPHIC SHEET 8329

Locality West Coast of Florida

Chief of Party: W. J. Chovan in 1956

Plane of reference is mean low water, reading
3.4 ft. on tide staff at St. Petersburg
5.4 ft. below B.M. 4 (1925)

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

Condition of records satisfactory except as noted below:


Signature

Chief, Tides Branch

VERIFIER'S REPORT OF HYDROGRAPHIC SURVEY NO. H-8329

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.

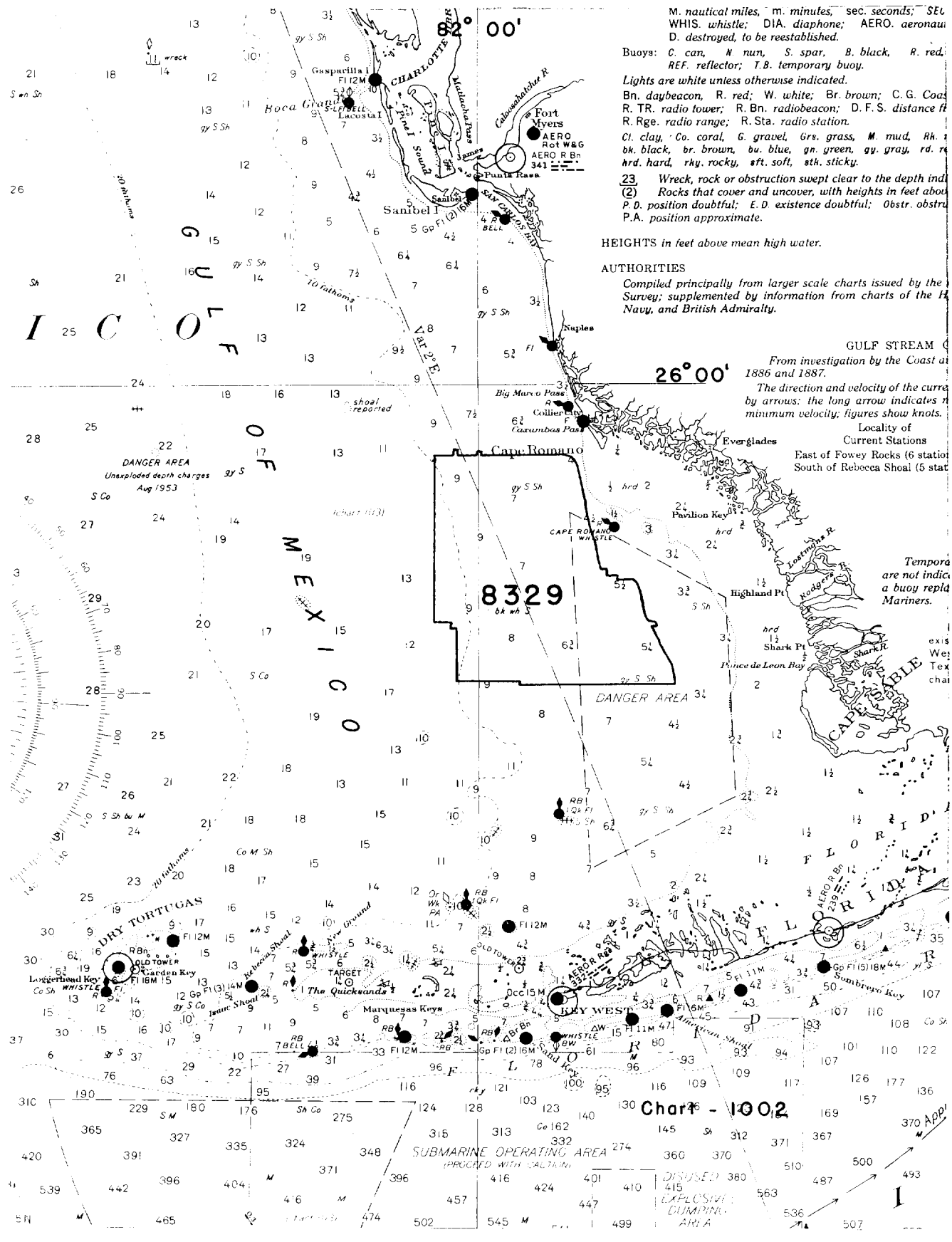
1. The descriptive report was consulted and appropriate notes were made in soft pencil regarding action taken.
2. Soundings originating with the survey and mentioned in the descriptive report have been verified, including latitude and longitude.
3. All reference to survey sheets mentioned in the descriptive 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



M. nautical miles; m. minutes; sec. seconds; SEU. WHIS. whistle; DIA. diaphone; AERO. aeronautical; D. destroyed, to be reestablished.

Buoys: C. can, N. nun, S. spar, B. black, R. red, REF. reflector; T. B. temporary buoy.

Lights are white unless otherwise indicated. Bn. daybeacon, R. red; W. white; Br. brown; C. G. Coast R. TR. radio tower; R. Bn. radiobeacon; D. F. S. distance light; R. Rge. radio range; R. Sta. radio station.

Cl. clay, Co. coral, G. gravel, Grs. grass, M. mud, Rh. rhy. rock, bk. black, br. brown, bu. blue, gn. green, gy. gray, rd. red, hrd. hard, rhy. rocky, sft. soft, sth. sticky.

23. Wreck, rock or obstruction swept clear to the depth indicated; (2) Rocks that cover and uncover, with heights in feet above P. D. position doubtful; E. D. existence doubtful; Obstr. obstruction; P. A. position approximate.

HEIGHTS in feet above mean high water.

AUTHORITIES

Compiled principally from larger scale charts issued by the U.S. Coast and Geodetic Survey; supplemented by information from charts of the U.S. Navy, and British Admiralty.

GULF STREAM CURRENTS

From investigation by the Coast and Geodetic Survey in 1886 and 1887.

The direction and velocity of the currents are indicated by arrows; the long arrow indicates the direction of minimum velocity; figures show knots.

Locality of Current Stations

East of Fowey Rocks (6 stations); South of Rebecca Shoal (5 stations)

Temporary buoys are not indicated; a buoy replaced by Mariners.

8329
DANGER AREA
Unexploded depth charges
Aug 1953

SUBMARINE OPERATING AREA
(PROCEED WITH CAUTION)

Chart - 1002

DISUSED
EXPLOSIVE
DUMPS
AREA

NAUTICAL CHARTS BRANCH

SURVEY NO. H. 8329

A 4 - 1003 (11006) 875,000

1253 (11431) 80,000
 1254 (11429) 80,000
 34,000
 1113 (11420) 475,000
 1112 (11460) 445,000
 1350 (11459) 189,000

Record of Application to Charts

| DATE | CHART | CARTOGRAPHER | REMARKS |
|------------------|--------|----------------|--|
| 4-12-57 | 1003 ✓ | Z.M.A. | Before After Verification and Review Examined. No corrections now. |
| 11429 8/19/57 | 1254 ✓ | J. C. ... | Before After Verification and Review Partially applied. |
| 11420 8-29-57 | 1113 ✓ | Z.M.A. | Before After Verification and Review add 1 ady. also compared with unverified dwg. 1254 lat. 25°40'-50" |
| 11460 10-16-57 | 1112 ✓ | J.T.W. | Before After Verification and Review partial |
| 12/20/57 | 1350 | J.F.W. | Before After Verification and Review |
| 11431 15 Sept 60 | 1253 ✓ | Michols | Examined - no corr. now Before After Verification and Review Compl. appl. |
| 3-14-84 | 11429 | JOE TURNER | ADEQUATE Before After Verification and Review REVISED SEVERAL SOUNDINGS. |
| 3-14-84 | 11431 | JOE TURNER | ADEQUATE Before After Verification and Review REVISED SEVERAL SOUNDINGS. |
| 3-18-84 | 11420 | JOE TURNER | ADEQUATE Before After Verification and Review REVISED SEVERAL SOUNDINGS THRU CHARTS 11429 & 11431. THE Before After Verification and Review REMAINDER WAS REVISED DIRECTLY ON CHART 11420. |
| 4-25-84 | 11006 | Stroe Taitaris | Adequate BEFORE verification and Review Applied thru 11420 |
| 7-9-84 | 11013 | JOE TURNER | ADEQUATE BEFORE VERIFICATION & REVIEW. APPLIED THRU 11420. |
| 9-4-85 | 11460 | F. Starnes | Adequately Applied #49 3E Area No Corr |

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.