8194

Diag. Cht. No. 1255-2.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. S0-1256 Office No. H-8194

LOCALITY

State Florida

General locality Charlotte Harbor

Locality Boca Grande Entrance

19/56-57

CHIEF OF PARTY

G. W. Moore and W. D. Barbee

LIBRARY & ARCHIVES

November 13, 1958

B-1870-1 (I)

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-8194

Field No. **80-1256**

| State | |
|--------------------|--|
| General locality | Charlotte Harbor |
| Locality | Boos Grande Entrance |
| Scale | 1:10,000 Date of survey 1956-1957 |
| Instructions dated | 18 December 1952 |
| Vessel | SOSBEE |
| Chief of party | Glenn W. Moore, William D. Barbes |
| | William D. Barbee, Glenn W. Moore, William M. Tidwell |
| Soundings taken by | fathometer/graphic recorder, hand lead, with |
| Fathograms scaled | by Personnel, Ship SOSBEE* |
| Fathograms checke | d by PERSONNEL, Ship SOSBEE* & Norfolk District Office |
| Protracted by | Fred Bean & A.G. Atwill |
| Soundings penciled | byA.G. Atwill |
| Soundings in | This feet at MLW MILIN ONE RUE deptiles |
| Remarks: *Fat | hograms not scanned for J through X days from |
| shi | o's wokk. All other corrections have been enter- |
| ed. | and checked by personnel of the Ship SOSBEE |
| | |
| | |
| | |

EIM

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SURVEY NO. H-8194

(Field No. 80-1256)

West Coast of Florida

16 Feb. 1956 to 9 Apr. 1957

Boca Grande Entrance

Scale: 1:10,000

USC&GSS SOSBEE

Glenn W. Moore William D. Barbee, Ch. of Party

A. PROJECT

This sheet is part of Project 13530, (originally CS-353) with original instructions dated 18 December 1952. Also applicable is Acting Director's letter 22/MEK, S-2-SO dated 25 April 1955 which amends instructions on tides.

B. SURVEY LIMITS AND DATES

one word Lacosta

This survey covers the southwestern portion of Charlotte Harbor. The western limit is the eastern shoreline of Gasparilla Island and La Costa Island in about longitude 82° 15°. The eastern limit is a north-south line roughly south of Cape Haze in longitude 82°07.8°. The southern limit is latitude 26°42.0° and/or the north shore of Pine Island. The northern limit is latitude 26°46.3° and/or the southerly shore of the barrier islands separating Charlotte Harbor from Bull Bay. The holiday in the northeast corner of the sheet (north of latitude 26°45.2°) is covered on S0-1157.64-836()

Junctions are made in Boca Grande Entrance with contemporary survey H-8358 (SO-1-1056) on the north with contemporary survey H-8193 (SO-1156), in the northeast with H-8361 (SO-1157) and H-8360 (SO-1356). H-8360 and H-8361 are not complete. There are no contemporary surveys east and south of this sheet.

Work commenced on 16 February 1956 and was concluded on 9 April 1957. No work was accomplished on this sheet during September, October, or November, while the SOSBEE was engaged in shoran hydrography. Other sheets were worked concurrently with this one.

C. VESSELS AND EQUIPMENT

Soundings were from 25 foot wooden skiff number 735, and the Ship SOSBEE. Skiff 735, powered by two ten horse-power outboard motors has a maximum speed of about 6 knots, and a turning radius of about 25 meters. The SOSBEE has a maximum speed of about 82 knots, and a turning radius of about 110 meters. Skiff work was from the SOSBEE anchored in western Charlotte Harbor, or a skiff dock in Bokelia on Pine Island. During the early part of the survey, some ship work was done running to and from Punta Gorda. During the latter part, ship work was accomplished from anchorages in western Charlotte Harbor.

Where ever possible, soundings from the skiff were by 808J type portable echo sounder number 1408P or 1158. In shoal depths—about 3 feet and less—soundings were obtained by a pole graduated in feet. The method of sounding is indicated in the sounding volumes. Soundings from the SOSBEE were by 808J type echo sounder number 1158 for C and D days, and by EDO model 255 echo sounder number 209 for the remainder of the sheet.

D. TIDES AND CURRENT STATIONS

A portable tide gage was established and operated at Port Boca Grande. The entire sheet is reduced to this gage, with time corrections as outlined in Director's letter 36-362-982, dated 10 August 1956. (See Tide Note appended to this report.)

One 100-hour current station was occupied in latitude 26°44.7', longitude 82°09.5'.

E. SMOOTH SHEET

The smooth sheet will be plotted by the NORFOLK PROCESSING OFFICE. It will be 36° x 60° , with the same center as the boat sheet.

F. CONTROL STATIONS

The ten triangulation stations used for control were located in 1909, 1934, or by Tampa Photogrammetric Office personnel in 1955. The greatest part of the control for hydrography was located by photogrammetric means on sheets T-11395, T-11396, T-11398, and T-11399. Several signals were located by hydrographic means. Signals were of sufficient accuracy for control.

A list of signals with their origins is appended.

G. SHORELINE AND TOPOGRAPHY

Shore line and topography are from shoreline manuscripts T-11395, T-11396, T-11398, and T-11399. No changes in shoreline were made by the hydrographer.

H. SOUNDINGS Photo of 1953
Field insp. 1955

Soundings were obtained with model 808J portable echo sounders number 1408P and 1158, and EDO model 255 number 209 except for soundings too shoal to indicate on the echo sounder. For these shoal soundings, a pole graduated in feet was used.

No unusual corrections were applied to 808 soundings. A velocity correction was applied to EDO soundings. This correction was determined from an abstract of all EDO bar -8358 checks on 80-1256, 80-2156, 80-2256, 80-2356, and 80-1-1056. Abstracts of bar checks and the resultant velocity correction curve are appended.

I. CONTROL OF HYDROGRAPHY

Hydrography was controlled almost entirely by sextant three-point fixes. In some instances on inshore lines, positions were estimated from shoreline detail, etc. These estimated positions are marked SBS (for see boat sheet) in the sounding volumes.

On the inset off the face of the Port Boca Grande phosphate dock, the distance off was determined by means of a measured leadline. Experiments with this leadline indicated that the distance off is accurate to within ± 2 meters. The position at either end of each line was determined by the distance off and the range formed by each end of the dock. It was determined by means of a stop watch that speed between fixes was constant.

J. ADEQUACY OF SURVEY

The survey is complete and adequate to supersede prior surveys.

Junctions with contemporary surveys on the west, north, and in the northeast corner are adequate. There are no contemporary surveys east and south of this sheet. There are no holidays at the junctions or within the sheet.

It was impractimate to develop the MLW line over most of this sheet, due to the small tide range. All other depth curves can be drawn.

.K. CROSSLINES

Crosslines constituting 7% of the total hydrography were run. Crossings are in good agreement throughout the sheet.

L. COMPARISON WITH PRIOR SURVEYS

Comparison was made with the following old surveys.

| Reg. number | Scale | Date |
|-------------|----------|-----------|
| H-1388a | 1:20,000 | 1878 |
| H-1480a | 1:20,000 | 1879-1880 |
| H-797a | 1:40,000 | 1863 |
| H-797b | 1:20,000 | 1867 |
| H-4645 | 1:10,000 | 1927 |

Generally, agreement with all of the old surveys was good. Specific comment follows.

H-1388a: There is very little detail on H-1388a, and so the present survey reveals a different—CK delineation. A least depth on the shoal in latitude 26°42. It at OK MLW) is less than that shown on the eld survey.—CK The shoal appears to extend farther west on the -OK present survey. A shoaler depth also was record—A smell low writer ed on the shoal in latitude 26°43. I longitude Jank-1388e. See 82°09.5' (0.0 at MLW).

H-797a & b: The far greater detail on the present survey makes for considerable change in the depth curves. Soundings from H-797a & b are not incompatable with depth curves on the present survey.

H-1480a: Agreement with this survey is good.

The large shoal in latitude 26°42'-43', longitude yeview Hem 5 82°11'-12' appears to have extended farther to the northeast. Shoaler depths were recorded on the present survey, With this exception, the two surveys are compatable.

H-4645: In general, agreement between the two surveys is excellent. The northern tip of La 35 See review Costa Island has receded southwest about 100 me ters, and there is a related change in the depth curves just offshore. Other differences are in the nature of one foot, and do not warrant discussion.

M. COMPARISON WITH CHART

Coast Survey charts 1255, 1:80,000, and 474, 1:40,000 cover the area of this survey. This report covers a comparison with a copy of 474 print date 4-6-53.

All of paragraph L is applicable to a comparison with the chart, and will not be repeated.

The 4 foot spot charted in latitude 26°43.81, longitude Sea Review 82°10.831 (see no. 15, Preliminary Review, dated 11 December Hem 6 PIVA. 1952) was not found. Lines were run on about 30 meter spacing, No. 2 (positions 1-48%) with no indication of a shoal.

It is recommended that this 4 foot sounding be deleted of from the chart.

N. DANGERS AND SHOALS

No new dangers and shoals were found. As mentioned in paragraph L, shoaler depths were recorded in many places.

The 4 foot spot charted in latitude 26°43.0°, longitude tem 6 par A 82° 10.85° was not found. With this exception, all charted them 6 par A dangers and shoals were found as charted or with a shoaler No 2 depth than charted.

O. GOAST PILOT INFORMATION

A special coast pilot report will be submitted.

P. AIDS TO NAVIGATION

All fixed aids to navigation within the limits of this survey were reported on Form 567 on 21 December 1955, by the Tampa Photo Office.

The position of all aids except Charlotte Harbor Daybea- Computed position con 5 were checked during hydrography. Charlotte Harbor Day- And the Beacon 5 was destroyed after the submission of 567 by the Tam- federales. Pa Office. Its new location is submitted on 567 dated 20 August 1957, by the Ship SOSBEE. (Not 9 1957 Form 567- has not been received in the Washington Office as of this

The charted position of Charlette Harbor Daybeacon 5 veriew date, is not correct.

There are no floating aids to navigation within this survey.

Q. LANDMARKS FOR CHARTS

Form 567, LANDMARKS FOR CHARTS was submitted in June 1956 by the Tampa District Office. This party concurs with that selection of landmarks. No additions to the form are needed, and so 567 will not be submitted by this party.

R. GEOGRAPHIC NAMES

In accordance with paragraph 44 of the Instructions, Investigation of Geographic Names will not be conducted. No discrepancies with established names were noted.

S_T. NONE

RECOMMENDATIONS FOR CHARTING

It is recommended that the 3 foot curve be charted.

- Z. TABULATION OF APPLICABLE DATA
 - Form 567, NON-FLOATING AIDS FOR CHARTS (by Tampa Bistrict Office, 21 Dec. 1955)
 - Form 567, NON-FLOATING AIDS FOR CHARTS
 - (by Ship SOSBEE 20 Aug. 1957)—Not veceived in Form 567, LANDMARKS FOR CHARTS

 Woshington Office 3. (by Tampa District Office, June 1956)
 - Topo Sheets T-11395

T-11396 T-11398

T-11399

ATTACHMENTS

- Statistics
- Tide Note
- 3. List of Signals 4. Index of Sheets
- Approval Sheet
- Velocity curve and data

Respectfully Submitted:

William D. Barbes

LT C&GS

STATISTICS

For Hydrographic Survey H-8194

Field Number 80-1256

Project 13530

| Ship SOSBEE 1 A 16 Feb 1956 | 1 | 0.0 |
|--------------------------------------|----------------|------------------|
| | 1 | |
| | 1 | |
| 1 B 20 Feb | | 0.0 |
| 1 B 20 Feb | 29 | 9.4 |
| 1 D 1 Mar | 19 | 7.4 |
| 1 D 1 Mar 1 E 26 Apr | 29 19 1 | 0.0 |
| 1 F 3 May | 49 | 12.8 |
| 1 F 3 May 1 G 9 May 1 J 24 May | 38 25 88 | 10.6 |
| 1 J 24 May | 25 | 26.9 |
| 2 K 13 Jun | 88 | 28.1 |
| 2 L 19 Jun | 98 | 27.6 |
| 2 L 19 Jun 2 & 3 N 21 Jun | 158 | 43.9 |
| 3 N 2 Jul | 19 | 7.0 |
| 3 P 10 Aug | 125 | 39.5 |
| 3 Q 13 Aug | 18 | 6.2 |
| 3 & 4 R 16 Aug | 111 | 35.1 |
| 3 & 4 R 16 Aug 4 8 17 Aug | 95 47 | 29.9 |
| 4 T 20 Aug | 47 | 14.7 |
| 4 & 5 U 21 Aug | 185 82 | 59•Ì. 27•0 |
| 5 V 22 Aug | 82 | 27.0 |
| 5 V 27 Aug | 31 26 | 9.9 |
| 6 X 30 Aug | | 7.5 |
| 6 Y 13 Mar 1957 6 & 7 Z 14 Mar | 100 | 37.5 |
| 6 & 7 Z 14 Mar | 210 | 64.3 |
| 7 AA 15 Mar | 150 | 38.6 |
| 7 & 8 BA 18 Mar | 89 | 28.8 |
| 8 CA 20 Mar | 12 | 2.8 |
| | 131 | 31.6 |
| TOTALS | 1927 | 377.2 |

AREA IN SOSBEE 20.1 Sq. Stat. Miles

STATISTICS (Cont d)

For Hydrographic Survey H-8194

Field Number 50-1256

Project 13530

| folume Tumber | Day Letter | Date | Pol Snd | | |
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| 9 | a | 17 May | 1956 11 | 130 | 21.6 |
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| 10 & 11 | ď | 8 Aug | i | | 37.8 |
| 11 | • | 9 Aug | | 7 177 | 31.7 |
| 11 & 12 | ſ | 13 Feb | 1957 1 | | 44.5 |
| 12 | g | 14 Feb | 160 | 160 | 39.1 |
| 12 | g h k 1 | 15 Feb 18 Feb | 10 | 10 | 0.0 |
| 13 | 3 | 18 Feb | 89 | 90 | 18.6 |
| 13 13 14 XX 14 14 | k | 20 Feb | 1 | 121 | 30.0 |
| 14 72 34 | | 26 Feb | 1, | 43 52 | 11.2 |
| XX 14 | 111 . | 27 Feb | | 52 | 11.8 |
| 14 | n | 28 Feb | | 72 43 | 14.5 |
| 14 & 15 | p q r | 4 Mar | 37 | 43 | -7.4 |
| 14 6 19 | · q | 7 Mar 19 Mar | 169 | 122 | 24.4 |
| 15 | 8 | 21 Mar | 58 | | 16.5 |
| 15 15 15 & 16 | t | 2 Apr | 128 | | 1.2 |
| 16 | ŭ | 3 Apr | 152 | | 20.2 |
| 16 | v | 4 Apr | - J. | 73 | 17.7 |
| 16 16 | W | 9 Apr | 55 18 | 73 43 | 3.7 1.6 |
| | T | OTÁLS | 1986 | 2127 | 405.3 |
| | AREA IN | | 11.2 Sq. | Stat. Miles | |
| | GRAND TOT | ALS | 1980 | 4054 | <u>982,5</u> |
| | | | | | |
| | TOTAL ARE | 4 97 9 | Sq. Stat. | 244.7 | |

TIDE NOTE

Soundings were reduced to MLW on the portable tide gage established at Port Boca Grande, Flerida, in latitude 26° 43.23°, longitude 82° 15.66°. Mean low water corresponds to a reading of 1.7 feet on the staff. No range corrections were applied. The fellowing time corrections, as outlined in Director's letter 36-362-982, dated 10 August 1956 were used:

West of long. 82° 13.6'----0 hours correction
West of long. 82° 10.0'----+1 hours correction
East of long. 82° 10.0'----+2 hours correction
Time zones for tides are shown on the boat sheet by
means of a blue pencil line.

LIST OF SIGNALS 80-1256 (H-8194)

| , , , , , |
|-------------------|
| description |
| THOUSE, 1934-55 |
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| IN ENT LIGHT, |
| 1955 |
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<u>LIST OF SIGNALS</u> (cont'd) 80-1256 (H-8194)

| Name | No. | I-sheet | Remarks |
|-----------------|--------------|-------------|--|
| Joe | | 11396 | Gone Here Cheel Bowheren 1977 |
| - | 0663 | | Cape Haze Shoal Daybeacon 1955 |
| Job | 9661 | 11396 | A 7176 BATUM 13.000 #2 |
| Jug | 0000 | 31000 | Δ JUG POINT, 1909 - 43 |
| Ked | 9921 | 11399 | • |
| Kim | 9645 | 11396 | |
| Lan | 9946 | 11399 | Pine Island Sound Daybeacon 34 |
| Lay - | | | Hydro, vol. 9, p. 34 |
| Lax / | • | | Hydro, vol. 9, p 34 |
| Leo | | 11398 | front range, Boos Grande Yacht Basin |
| | | | (privately maintained) |
| Log Co. | mouted most | 82'08-306.2 | ← Hydro, vol. 9, p. 34 Charlotte Harbor |
| 205 (C) | position | 82'08-306.2 | Daybeacon 5 |
| Mag | | 1 | |
| Mar | 96112 | 11396 | Hydro, vol. 11, p. 53 |
| | | | |
| Meg | 9540 | 11395 | A STINT AMEN TINNAN BESTER IN CO. |
| Mid | 0.41.4 | 77662 | Δ CHARLOTTE HARBOR LIGHT NO 4, 1955 |
| Nay | 9541 | 11395 | |
| Nip | 9646 | 11396 | |
| Now | 26113 | 11396 | |
| Nun | 9657 | 11396 | • |
| Pil | 96116 | 11396 | Private beacon |
| Pin | 9947 | 11999 | Pine Island Sound Daybeacon 35 |
| | 7771 | 22377 | rine island bound paybeagen 33 |
| Pine | | _ | Hydre, vol. 1, pp. 4,5,28, 60 |
| Pit | 9658 | 11396 | |
| Red | 99 09 | 11399 | |
| Rio | 9660 | 11396 | |
| Rip | 9659 | 11396 | |
| Sam | | 11398 | Sampling tower |
| Sap | | <i>J</i> | Hayne and 11 - to |
| Sav | 96118 | 11396 | Hydro, vol. 11, p. 53 private beacon |
| Sin | SOTTO | エエジアも | y dim jeys |
| Sir | 96115 | 31204 | A BIN, 1943 |
| Tan | AGTTA | 11396 | A BOCA GRANDE GASPARILLA INN WATER |
| Tax | 96117 | 11396 | TANK, TALLEST OF TWO, 1955 private beacon |
| Tom | 7021 | 11396 | Darrage Dealon Dealers and Sa |
| Try | | 11396 | Gasparilla Sound Daybeacon 17 |
| Val | ool = | | Gasparilla Sound Daybeacon 19 |
| | 9945 | 11399 | Fower Pole |
| Wad | 9923 | 11399 | |
| Vax | 9664 | 11396 | PORT |
| Wat | - 15 - | mm = - 4 | ASOUTH BOCA GRANDE WATER TANK, 1955 |
| Wig | 9683 | 11396 | |
| Yak | 9907 | 11399 | |
| | | | |

Approval Sheet H-8194 (80-1256)

Approximately 50% of the field work on this survey was done under the supervision of CDR Glenn W. Moore, Chief of Party. At all times when field work was under way on this survey, the boat sheet was examined daily. The survey is complete and adequate. No additional work is needed. The records will be sent to the NOR-FOLK PROCESSING OFFICE for smooth plotting.

Villiam D. Be

LT C&GS

Comdg. Ship SOSBEE

ABSTRACT OF BAR CHECKS FOR VELOCITY CORRECTION EDO FATHONETER SHIP SOSBEE

| 180-1256 | | | | | | | | | | |
|-----------------|-------|-------|------|---------------------------|----------------|------|------------|------------|-----|-------------|
| Date | 5 | 10 | 15 | 20 | 71 | 30 | 35 | 40 | 45 | 50 |
| 1956 | | | | | | | | | | |
| 1-3 | | 0 | | | | | | | | |
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| 6-21 | | 9 | 0 | 0 | 0 | | | | | |
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| | | Jorr. | from | B0-2 | 256 | 0.8 | 12.1 | 4.1 | 1.2 | |
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| 1256 a | 80- | • | | | L | | l | Ι. | L. | |
| 1-1056 | • | 9 | 10.1 | 10.1 | D.2 | 10.7 | 21.1 | | 0.4 | <u> 9.9</u> |

NORFOLK PROCESSING OFFICE ADDENDUM To Accompany

HYDROGRAPHIC SURVEY H-8194 (Field No. so-1256)

GENERAL

This appears to be an excellent basic survey and no unusual conditions were encountered during the smooth plot. Soundings are in good agreement at crossings considering the many minor irregularaties in the bottom.

INSERT

The smooth plot of the soundings along Port Boca Grande pier differ from the boat sheet. The field party apparently plotted the soundings at a scale of 1:5,000 on an insert at 1:2500.

STATION DESCRIPTIONS

Station descriptions are incomplete as many of them are no longer legible on the boat sheet.

Norfolk, Va. 5 November 1958

Respectfully submitted.

Hugh L. Proffitt Cartographer.

U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens

16 January 1959

Plane of reference approved in 16 volumes of sounding records for

HYDROGRAPHIC SHEET 8194

Locality Boca Grande, Florida

Chief of Party: G. W. Moore in 1956
W. D. Barbee in 1957
Plane of reference is mean low water, reading
1.7 ft. on tide staff at Port Boca Grande
5.7 ft. below B.M. 3 (1927)

Height of mean high water above plane of reference is 1.0 foot.

Condition of records satisfactory except as noted below:

Chief, Tides Branch

Milliand

| GEOGRAPHIC NAMES Survey No. H-8194 | | n Ac. Of | S Mod P | | r kraf | o Guide | Mod Mercial | Akilos | , \$ / |
|------------------------------------|--------|----------|-----------|-----------|-------------|--|----------------|-------------|-------------|
| Name on Survey | Or Ho. | L Mo. O | J.S. Mag. | or oco id | On Deal War | 6. Carre | Rond Mc. | J.S. Jeffer | / |
| Hairle on Survey | A B | / c | D | / E | / F | G | / H | / K | |
| Florida | | | (title |) | <u> </u> | - | | | 1 |
| West Coast | | | 111 | | ļ | ļ | | | 2 |
| Charlotte Harbor | would | be pr | eferab | le as | part | of tit | le, re | ther | 3 |
| | than | Boca G | ande 1 | Entran | ce | | | | 4 |
| Jug Creek Point Shoal | | | | | | | | | 5 |
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| Jug Creek Shoal | 1500 | 27.000 | | ļ, | | | | | 7 |
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| Boça Grande | (inl | | | | | - | | | 9 |
| Port Boca Grande | (tid | e stat | ion) | | | | | ļ | 10 |
| Gasparilla Island | | | <u> </u> | | | | | ļ | 11 |
| Boca Grande | (town | | | | , | - | | | 12 |
| Yacht Basim | | | | | | | | | 13 |
| y Boca G ande Canal | | | | | | | | | 14 |
| Devilfish Kev | | | | | | | | | 15 |
| Cayo Pelau | | | | | | | | | 16 |
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| Bull Key Gallagher Keys | | | | | | | | | 17 |
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Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. . 8194...

Records accompanying survey: Boat sheets 1....; sounding vols. .16..; wire drag vols. bomb vols.; graphic recorder rolls 23-Envelopes special reports etc. 1-Smooth sheet and 1-Descriptive report. The following statistics will be submitted with the cartographer's report on the sheet: 4054 Number of positions on sheet Number of positions checked ...0 Number of positions revised Number of soundings revised (refers to depth only) 40 Number of soundings erroneously spaced Number of signals erroneously plotted or transferred . . 5 Topographic details Time 3 Junctions Time Verification of soundings from graphic record Time Verification by 9.6. Chambers....Total time 324. Date 9-29-59 Reviewed by .. H. W. Burgoyne Time 100 hrs Date 3/24/60

DIVISION OF CHARTS

REVIEW SECTION -- NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8194

FIELD NO. SO-1256

Florida - Charlotte Harbor - Boca Grande Entrance

SURVEYED: Feb. 1956 - April 1957

SCALE 1:10,000

PROJECT NO. 13530

808 SOUNDINGS:

EDO Depth Recorders

INSPECTED BY ----- R. H. Carstens

CONTROL: Sextant fixes

on shore signals

Pole

Chief of Party ----- Glenn W. Moore, Wm. D. Barbee SURVEYED BY ----- Wm. D. Barbee, Glenn W. Moore, Wm. M. Tidwell PROTRACTED BY ----- Fred Bean, A. G. Atwill SOUNDINGS PLOTTED BY ----- A. G. Atwill VERIFIED AND INKED BY ---- J. C. Chambers DATE: 3/24/60 REVIEWED BY ----- H. W. Burgoyne

1. Shoreline and Control

The shoreline originates with advance prints of air-photographic surveys T-11395-96 (1953-56), T-11398-99 (1953-58). No changes in shoreline were made by the hydrographer. large pier appearing on T-11398 at Lat. 26°43.12', Long. 82°15.58', from air-photographic corrections of 1958 was not shown on the present survey as this pier was built subsequent to the hydrographic survey.

The source of control is given in the Descriptive Report.

2. Sounding Line Crossings

The depths at sounding line crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The standard depth curves are adequately delineated to show the existing hydrography. The 3-foot curve was drawn to better delineate the shoal areas.

This survey covers the western portion of Charlotte Harbor and extends westward from approximately the 82°08' meridian to the Boca Grande Channel Entrance. The bottom is generally even except for sand and shell shoals off Pine Island.

4. Junctions with Contemporary Surveys

Present survey depths on the north are in adequate agreement with junctional depths on surveys H-8193 (1956) and on the southwest with H-8358 (1956-57). Project surveys on the east and south have not yet been received in the Washington Office.

5. Comparison with Prior Surveys

| H-797a (1863) | 1:40,000 | $H-1480 \ a \ \& \ b \ (1879-80)$ |
|----------------|----------|-----------------------------------|
| | , , | 1:20,000 |
| H-797b (1867) | 1:20,000 | н-4644 (1927) 1:10,000 |
| H-1388a (1878) | 1:20,000 | H-4645 (1927) 1:10,000 |

The prior surveys listed above cover the area of the present survey. A more intensive development of hydrography on the present survey reveals a considerable change in depth curves. A comparison between the present and prior surveys also reveals an extension of certain shoal areas within Charlotte Harbor. Since the 1878-80 surveys, the large shoal in Lat. 26°42-43', Long. 82°11-12', has extended about 600 meters to the northeast and the shoal appearing in Lat. 26°43.2', Long. 82°09.7', has now extended about 200 meters to the northwest with resulting shoaler depths.

Only minor differences are noted between the surveys of 1927 and the present survey. However, the north tip of Lacosta Island has receded about 95 meters, and the south tip of Gasparilla Island has receded about 60 meters, with a resulting change in depth curves.

The present survey is adequate to supersede the prior surveys in the common area.

6. Comparison with Chart 474 (latest date 3/10/58)

A. Hydrography

1. The charted hydrography originates with the prior surveys, supplemented by minor revisions from Corps of Engineers surveys of 1938 (Bps 33302-06) and from the boat sheet of the present survey (Bp 55551).

- 2. The 4-foot shoal charted at Lat. 26°43.1', Long. 82°10.8' from Corps of Engineers
 Bp 12888 (1899) was not found on the present survey. This sounding is considered disproved and should be deleted from the chart as recommended in the Descriptive Report (paragraph M).
- 3. The 4- and 5-foot soundings charted between daybeacons "19" and "21" from Bp. 55551 at Lat. 26°45.59', Long. 82°14.85', and Lat. 26°45.67', Long. 82°14.87', respectively, should be changed to 3 feet on Chart 474.
- 4. Two piles marking the entrance channel into Bull Bay at Lat. 26°46.18', Long. 82°12.29', and Lat. 26°46.19', Long. 82°12.24', do not appear on Chart 474.
- 5. The pile appearing on Chart 474, 64 meters east of Boca Grande Yacht Basin Light No. 3, does not appear on the present survey. This pile was charted as the result of a telephone conversation in July 1955 (Aid Proof No. 16). It is recommended this pile be retained as charted.
- 6. The marker and pile located on this survey at Lat. 26°44.91', Long. 82°15.31', from T-11398 do not appear on Chart 474 because of the apparent close proximity to the charted position of Light "3".

The present survey is adequate to supersede the charted hydrography.

3. Controlling Depths

- 1. The channel legend " 6 FT. 1956" for the Boca Grande Canal originated with the boat sheet of the present survey (Bp 55551). The survey now shows 5-feet after verification and review.
- 2. The channel legend "6½ FT Jan. 1948" at the entrance to the Boca Grande Canal originated with Coast Pilot inspection L.118 (1948). The present survey shows 6 feet on range.

C. Aids to Navigation

The survey positions of all fixed aids are in agreement with their charted position except Charlotte Harbor Daybeacon "5". The charted position should be changed to Lat. 26°45.18', Long. 82°08.19', (see item 7, par. "C" of review for computed position of this beacon).

No position for Bn 2 charted in Lat. 26°44.91', Long. 82°15.18' is shown on the present survey.

7. Condition of Survey

- The field work was complete except for the describing of offshore hydrographic stations. (See paragraph 248 of the Hydrographic Manual.) In the vicinity of the Boca Grande Entrance Channel to the Yacht Basin, three hydrographic stations (Ask, Art, and Amy) were not described. Station "Ask" located by this survey party in May 1956 is probably Boca Grande Yacht Basin Light "3" established by the U. S. Coast Guard in April 1956 (HONM 17, 1956). Both stations "Ask" and "Art" fall in a critical location, but the information necessary for identification is not available for charting purposes. The Descriptive Report (paragraph z, item 2) mentions a Form 567 (Aug. 1957) applicable to Chart 474. This source material has not been received in the Washington Office at this time. There is a possibility the location of Light "3" will be shown on this Form 567.
- The Descriptive Report and sounding volumes are complete and comprehensive except for omitting the description of the hydrographic stations mentioned in "a" above.
- The survey was smooth plotted accurately and neatly except for the plotting of hydrographic signal "Log" (Bn "5"). The position of station "Log" now plotted on the smooth sheet at Lat. 26°45' - 321.9m, Long. 82°08' - 306.2 m., is a revised position obtained from a computed 3-point fix. The smooth sheet position used in the control of hydrography is 16 meters southwest of the plotted (computed) position. The hydrographic lines were not changed in position as the bottom is very smooth with little change in depth in this area.

8. Compliance with Project Instructions

This survey adequately complies with project instructions.

9. Additional Field Work Recommended

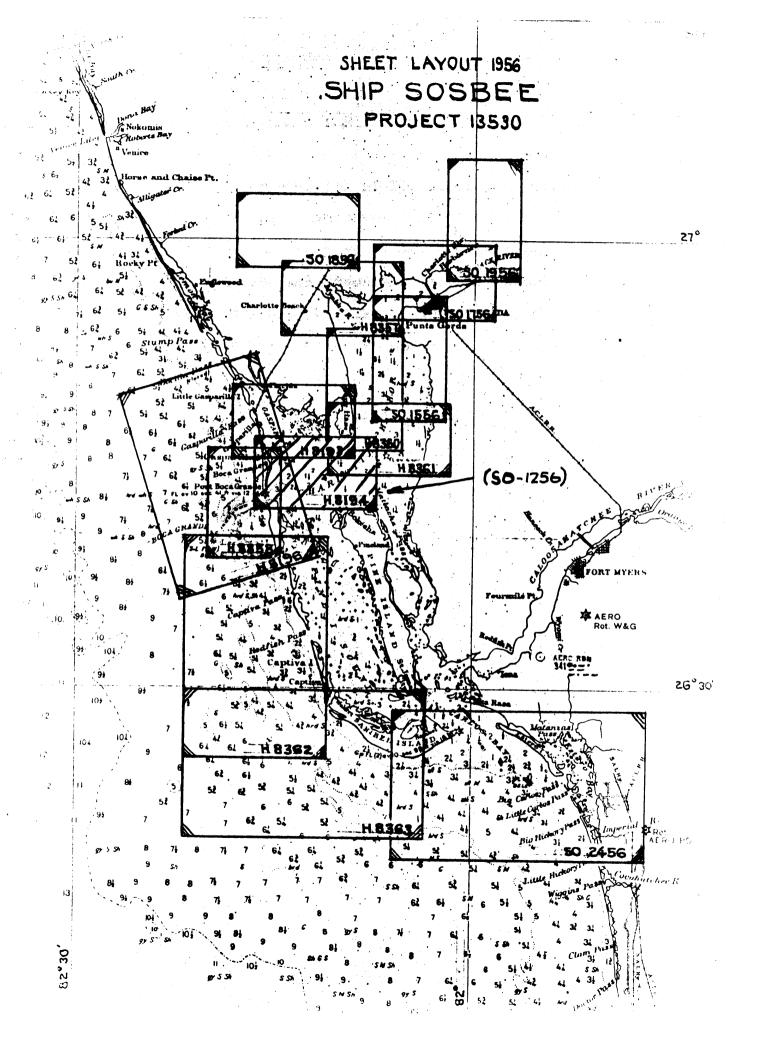
This is a good basic survey and no additional field work is recommended.

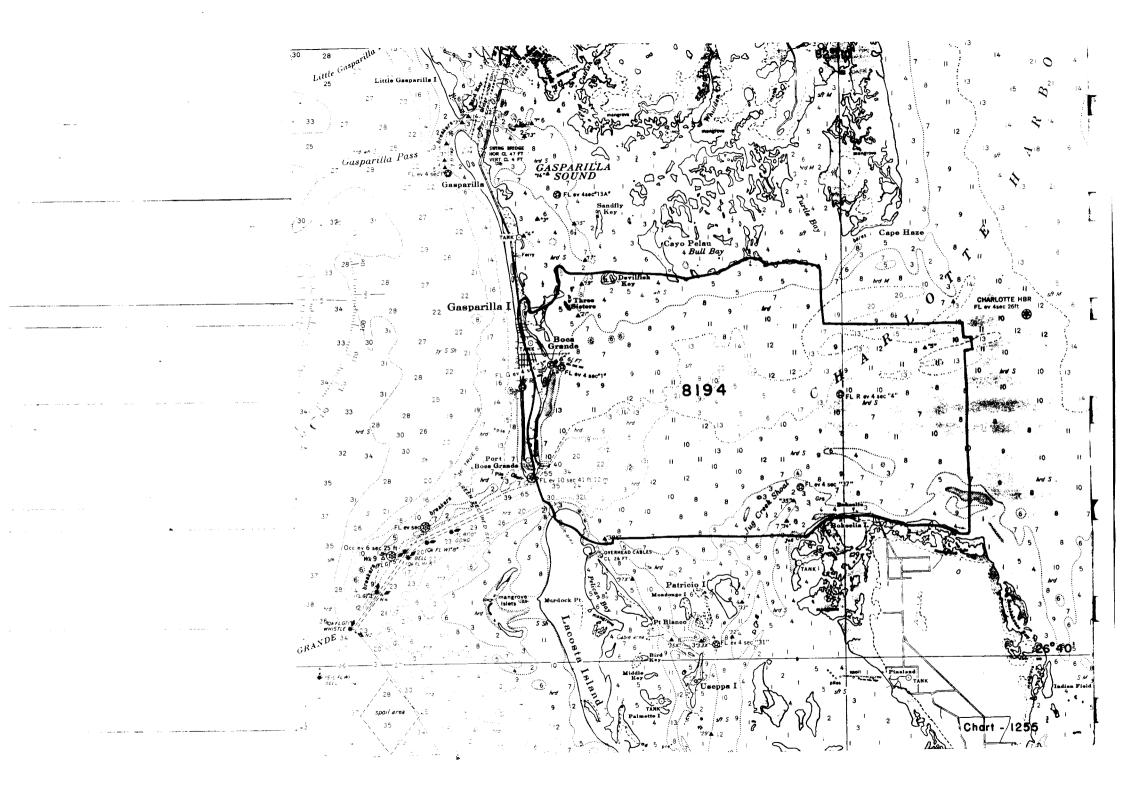
Chief, Hydrography Branch

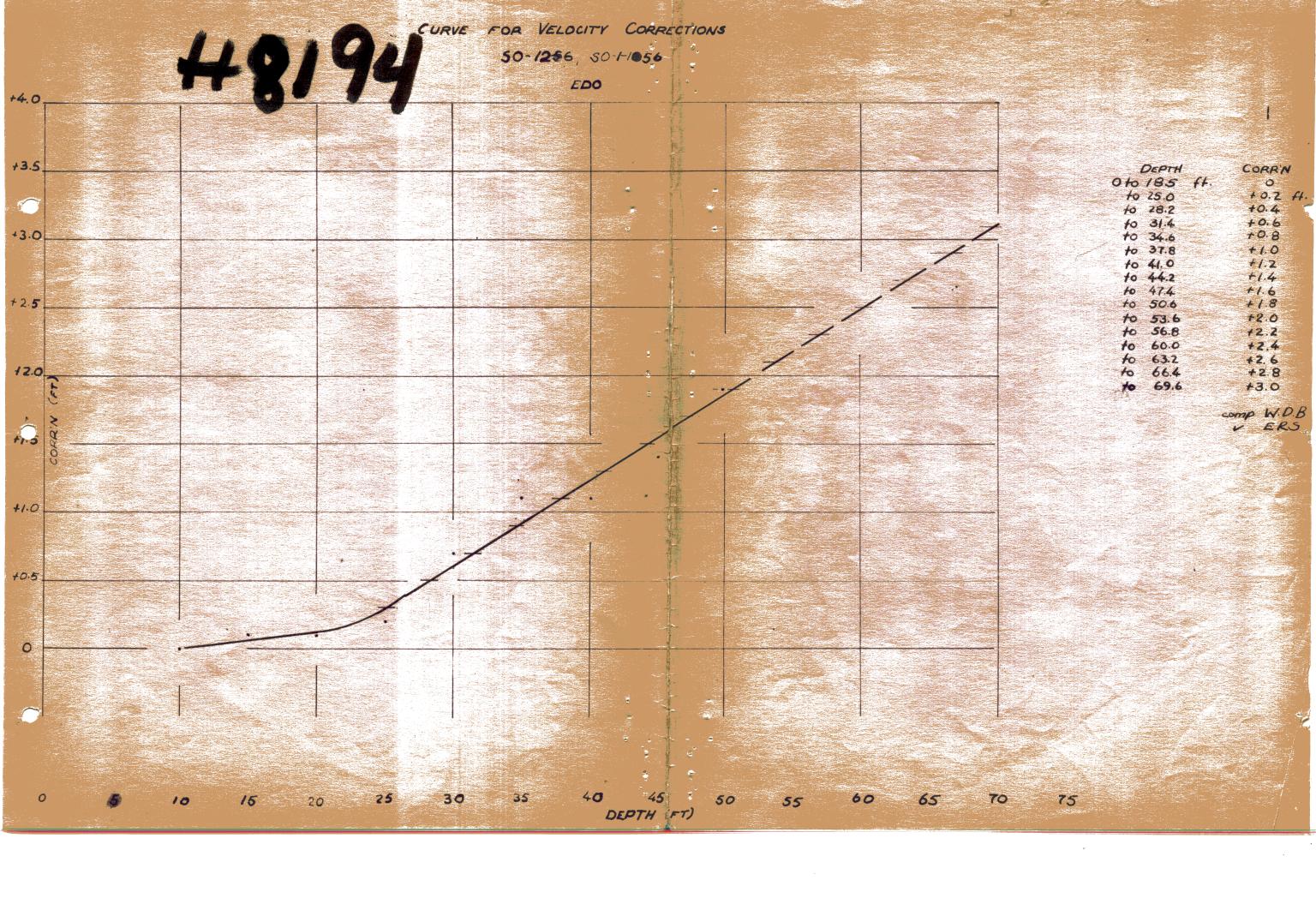
Examined and Approved:

Chief, Division of Charts

Chief, Division of Coastal Surveys







NAUTICAL CHARTS BRANCH

SURVEY NO. H-8194

Record of Application to Charts

| | DATE | CHART | CARTOGRAPHER | REMARKS |
|----|----------|-------|---------------|--|
| | 1/28/59 | 474 | H.C. Anderson | Before ** Verification and Review |
| | 1/28/59 | 1255 | H.C. Anderson | Before My Verification and Review Partially |
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| 2 | 3 Jan 61 | 1255 | А | Perform After Verification and Review Jull |
| b | June | 857A | 7 4 | Before After Verification and Review Uru |
| 90 | Fab by | 856A | 11 | 856 above (Dawing "B") - Perfore After Verification and Review In Sail |
| 20 | April 62 | 1255 | 21 | Thru 857A, above Before After Verification and Review Complete |
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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.