8844

Diag.Cht.No.1251-2.

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

(HYDROGRAPHIC)

| Type of Survey Hydrographic Field No HY-10-1-65 Office No H-8844 |
|--|
| LOCALITY |
| StateFlorida |
| General Locality Florida Keys |
| LocalityKey.West.Naval.Anchorage.Area |
| |
| 1965 |
| CHIEF OF PARTY |
| H.D.Reed,Jr, |
| LIBRARY & ARCHIVES |
| DATE |

☆ U.S. GOV. PRINTING OFFICE: 1976-669-441

| FO | RM | C&GS- | 537 |
|-----|------|-------|-----|
| fm. | 18.5 | (a) | |

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

REGISTER NO.

HYDROGRAPHIC TITLE SHEET

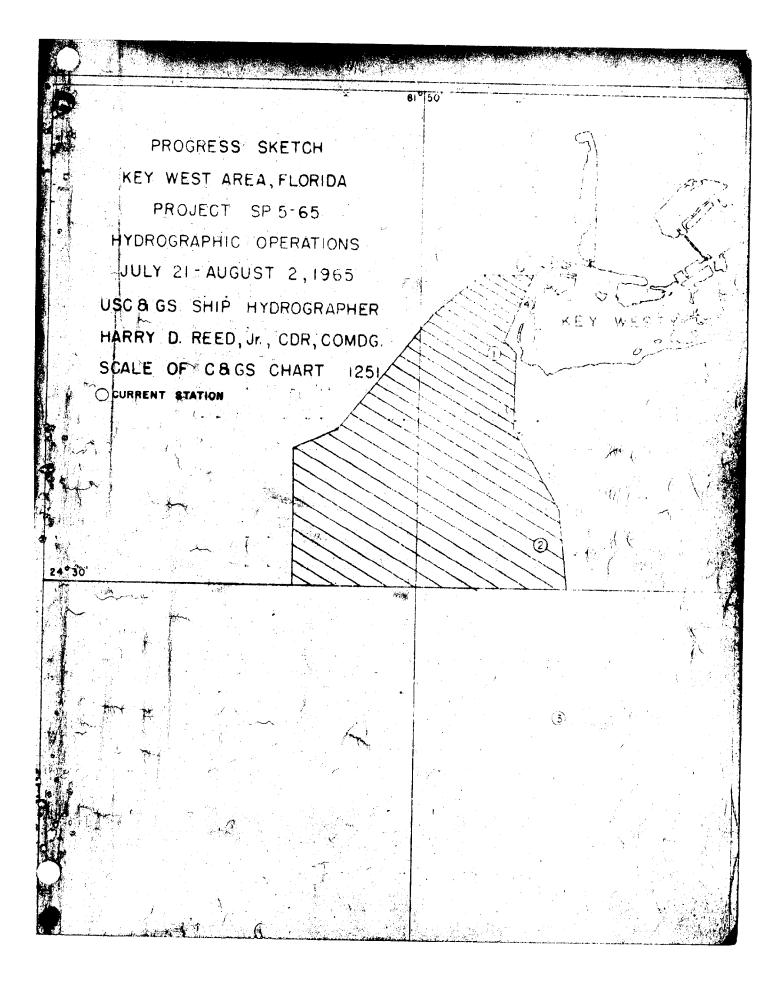
H-8844

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

FIELD NO.

HY-10-1-65

| | Florida |
|--------------------|---|
| State | |
| General locality_ | Florida Keys |
| Locality | Key West Naval Anchorage Area |
| Scale | 1:10,000 Date of survey July 22 - 31, 1965 |
| Instructions dated | June 14, 1965 Project No. SP 5-65 |
| Vessel | Launch HY-1 |
| Chief of party | Harry D. Reed, Jr., CDR, USC&GS |
| , | K.E. Taggart, C.E. Huss, W.Y.S. Williams, W. R. Klesse |
| | by echo sounder, module to reach Raytheon Survey Fathometer DE-723, No. 555 |
| Graphic record sc | aled byShip Personnel. |
| Graphic record ch | ecked by Ship Personnel |
| Protracted by | D. E. Youngdahl Automated plot by |
| Soundings pencil | ed byD. E. Youngdahl |
| Soundings in | fathoms feet at MLW XXXX |
| REMARKS: | This survey is a harbor survey using Raydist for control. All data |
| | recorded in sounding volumes. |
| | |
| | |
| | |
| | |
| - | |
| | |
| | |
| | 9 |



DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SURVEY (HY-10-1-65)

REGISTRY NO. 8844

1965

USC&GS SHIP HYDROGRAPHER - LAUNCH HY-1

SCALE 1:10,000

HARRY D. REED, JR., CDR, USC&GS

CHIEF OF PARTY

A. PROJECT

This survey was carried out in accordance with instructions dated June 14, 1965, Project SP 5-65, Key West, Florida.

B. AREA SURVEYED

This survey covers the Naval Anchorage Area west of the Main Ship Channel at Key West. The area is irregular in shape and lies between Latitudes 24°30' and 24°34' North and Longitudes 81°48' and 81°52' West.

All hydrography was accomplished during the period July 22 through July 31, 1965.

C. SOUNDING VESSEL

All hydrography on this survey was accomplished by Launch HY-1.

D. SOUNDING EQUIPMENT

All hydrography was in depths less than 45 feet using the Raytheon Survey Fathometer, Model DE-723, Serial Number 555. The initial setting on the echo sounder was maintained at 0.0 throughout the entire survey.

Depths encountered ranged from 1 foot to 42 feet.

Depth corrections were derived from bar checks made twice daily at the beginning and end of each day.

E. SMOOTH SHEET

The smooth sheet has been plotted by one of the ship's officers. The projection was constructed by the Washington Office and checked by ship's officers.

DESCRIPTIVE REPORT - HYDROGRAPHIC SURVEY (HY-10-1-65) - LAUNCH HY-1

USC&GS SHIP HYDROGRAPHER - 1965 - cont'd.

F. CONTROL

Raydist was used for control during the survey. The method of determining Raydist corrections is discussed in Sections 0 and P.

R: Boca Chica R2 - Fleming key 2 RM 4 1934 - 1963.

G. SHORELINE

No shoreline was in the hydrographic area.

H. CROSSLINES

Approximately 10% of all sounding lines were run as crosslines. All crossings were in good agreement.

I. JUNCTIONS

No junctions were made with other surveys.

J. COMPARISON WITH PRIOR SURVEYS

No prior surveys were provided.

K. COMPARISON WITH CHARTS

A comparison was made with C&GS Chart 576, 7th Edition, March 8, 1965, Revised May 29, 1965. Excellent agreement was found between charted depth curves and those obtained by this survey.

Along the southern edge of the survey area, several shoals were found which do not appear on the chart; however, they are located in an area of numerous charted shoals, and they are south of the anchorage areas.

A sounding of 26 feet was found in the DEITA 17 anchorage area (Latitude 24°30'49" North Longitude 81°50'07" West) whereas, the shoalest charted sounding is 34 feet. The sounding is believed to be a reflection off mooring buoy anchor chains.

An area awash (Latitude 24°31'13" North Longitude 81°48'58" West) was located slightly west of a charted spoil area.

The "Notice to Mariners" No. 49, 1964, states that a 12 foot shoal was found in the DELTA 3 anchorage area. This survey found depths of over 30 feet throughout that area using 45 meter spacing of sounding lines.

Sagi Deleter From Sowork Sheet DESCRIPTIVE REPORT - HYDROGRAPHIC SURVEY (HY-10-1-65) - LAUNCH HY-1
USC&GS SHIP HYDROGRAPHER - 1965 - cont'd.

L. ADEQUACY OF SURVEY

The portion of survey north of 24°30'30" is complete, and it is adequate to supersede prior surveys of the area. The portion of the survey between 24°30'00" and 24°30'30" should be used in conjunction with prior surveys for charting purposes because the line spacing used during this survey does not insure detection of all the coral heads known to exist.

M. AIDS TO NAVIGATION

All aids to navigation were in agreement with C&GS Chart 576 as revised by "Notice to Mariners" No. 31 of July 31, 1965.

N. STATISTICS

| Number of Positions | 1671 |
|-----------------------------------|-------|
| Miles of Sounding Line (nautical) | 285•4 |
| Area in Square Nautical Miles | 10 |
| Number of Bottom Samples | 64 |

Within the limits of the sheet one 200 hour Current Station (No. 1) and four 100 hour Current Stations (No. 2, 3, 4, 5) were observed.

Positions of the Current Stations are as follows:

No. 1 - Latitude 24°32.9' North Longitude 81°49.0' West

No. 2 - Latitude 24°30.5' North Longitude 81°48.3' West

No. 3 - Latitude 24°28.4! North Longitude 81°48.1! West

No. 4 - Latitude 24°33.5' North Longitude 81°48.6' West

No. 5 - Latitude 24°34.0' North Longitude 81°48.25'West

O. RAYDIST ATTENUATION CHECKS

Im lieu of supplementing Raydist fixes with sextant cuts to check attenuation of signal, calibrations were made in representative sections DESCRIPTIVE REPORT - HYDROGRAPHIC SURVEY (HY-10-1-65) - LAUNCH HY-1

USC&GS SHIP HYDROGRAPHER - 1965 - cont'd.

of the survey during the day. Three triangulation stations (light structures) within the survey area were used for this purpose. Two of the stations were at the northern extremities of the survey area, and the other in the southern corner. The calibrations indicated uniform Raydist reception throughout the survey area. Consequently, no corrections were made for attenuation. frequency 3307.4 KC.

P. RAYDIST CALIBRATION

Before beginning hydrography, the launch was brought alongside one of the triangulated light structures and the dials were set to coincide with the plotted values of the structure. The dials could not be brought into exact coincidence with the plotted values because of the index errors in the Raydist set. From these calibrations and other calibrations during the day, the index errors were determined.

A table of corrections is included at the end of this report.

Q. MISCELLANEOUS

The corrections to echo soundings were entered in the sounding volumes in the following manner:

Under the columns with the heading "CORRECTIONS"

Left Column - Velocity (Bar Check) corrections

Center Column - Tide Reducer corrections

Right Column - Initial correction

R. RECOMMENDATIONS

The area of the survey between Latitude 24°30'00" and 24°30'30" North could not be covered adequately by a system of sounding lines. The area has numerous charted coral heads and is south of the charted anchorage areas. The area would need to be wire dragged to locate all of the coral growths.

In reference to Paragraph 22 of the instructions concerning submerged pilings in the vicinity of Boca Chica Channel entrance buoy, no indication of the pilings was found. A fathometer search was conducted by drifting over the area in a launch. Approximately three man hours were spent

DESCRIPTIVE REPORT - HYDROGRAPHIC SURVEY (HY-10-1-65) - LAUNCH HY-1

USC&GS SHIP HYDROGRAPHER - 1965 - cont'd.

diving in the area without finding any indication of the pilings. It was noticed that the pilings have been deleted from C&GS Chart 584, and it is recommended that they be deleted from all other charts of the area.

Respectfully submitted:

Dennis E Youngdalf

Dennis E. Youngdahl, ENS, USC&GS

Approved and Forwarded:

Harry D. Reed, Jr., CDR, USC&GS Commanding Officer DESCRIPTIVE REPORT - HYDROGRAPHIC SURVEY (HY-10-1-65) - LAUNCH HY-1 USC&GS SHIP HYDROGRAPHER - 1965 - cont'd.

TIDE NOTE

Field No. HY-10-1-65

Registry No. H-8844

Tide Station:

Key West, Florida Latitude 24°33.2' N. Longitude 81°48.5' W.

Plane of Reference:

MLW = 4.5 feet on the staff

Time Meridian:

75° West

Time Correction:

None

Height Correction:

None

Area Covered:

Entire area of Boatsheet HY-10-1-65

An abstract of tide corrections is appended to this report. Hourly heights were furnished by the Washington Office.

| 5. CHECKED | 25 July 65 d (206) | 24 July 65 c (205) | 23 July 65 b (2011) | 22 July 65 a (203) | MO. DAY YR. OR DAY NO. (Date) | 1. нудко. SURVEY NO: H-8844 | FORM C8 9502 (5-64) USCOMM-U 6812-1764 |
|------------|--|---|--|---|------------------------------------|-----------------------------------|--|
| | | | | | POSITION | Y NO: | 64 |
| | 0800 0832 0858 0921 1019 1048 1115 1224 1224 1501 | 0830 0846 0921 1026 1150 1160 1160 | 0822 0901 0935 1301 1401 1501 | 0901 1243 1346 1503 | c. TIME | 2. FIELD NO. HY-10-1-65 | AB |
| | 0831 0857 0920 0948 1018 1047 1114 1123 1500 1543 | 0845 0920 0958 1059 1150 1150 11600 | 0900 0934 1300 1400 1605 | 1242 1345 1345 1740 | AE TO | | ABSTRACT OF TIDE |
| | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 0.0000000000000000000000000000000000000 | | 99950 | d. TIDE REDUCERS FT. FMSX | 3. SURVEY LOCATION Key West Area | TRACT OF TIDE CORRECTIONS |
| APPROVED | | | | | e. MACHINE ENTRY FT. FMS. | Area - Florida | Z, |
| | | | | All data on this sheet is derived from the Standard Tide Gage installed at Key West, Florida. | f. TIDE STATION USED (As Form 681) | • | U.S. DEPARTMENT OF COMMERCE |
| | | | | | CORRECTION USED | 4. TIME MERIDIAN 75° West | PAGE # |

The information entered on this form shall be derived from associated tide records and together with those records be forwarded to the Washington Office for administrative approval by Tides and Currents Branch, Marine Data Division, Office of Oceanography.

Instructions by item number.

- 1. Enter the survey number
- 2. Enter the field number.
- 3. Enter the survey locality.
- 4. Enter the time meridian used.
- Checked: Enter field approval
 Approved: Indicate Washington Office approval.

Instructions by columns (letters):

- a. Enter the day of the year. A coded entry must be identifiable in the Washington Office.
- b. Enter the position number of the sounding line where the reducer is to first apply.
- c. Enter the time in hours and minutes that the reducer listed in "d" is used.
- d. Enter the tide reducer necessary to correct the sounding to the plane of the reference.

The value entered by the field personnel shall be certified by the Washington Office, or corrected and returned to the originator. Only approved information can be entered into the smooth (edited) tape.

e. Enter the tide value from the previous column (Tide reducer) applied to a tide base of +60.0.

- f. Enter the origin of the tidal record from which the reducers in column "d" were derived. The entry must be identical with the terminology expressed in form 681.
- g. Enter the additional information used to determine the corrections: Ratio of Range, ± time necessary to correct for the gage position, and zone designation.

| | 28 July 65 g (209) | 27 July 65 f (208) | 26 July 65 e (207) | MO. DAY YR. OR DAY NO. (Date) | 1. HYDRO. SURVEY NO: | USCOMM-L- 6812-P64 |
|----------|--|--|---|--------------------------------------|---------------------------------|--|
| | | | | POSITION | V NO: | 164 |
| | 0800 1012 1049 1143 1206 1224 1224 | 0800 0851 0938 1011 1037 1120 1139 1139 1217 | 1544 1547 1668 1668 1668 1668 1668 1668 1668 166 | c. TI | 2. FIELD NO. HY-10-1-65 | |
| | 1011 1018 1118 1216 1223 1223 1230 | 0850 0937 1010 1036 1119 11138 11216 1236 1300 | 0838 0910 0937 1000 1024 1108 1128 1149 1211 1213 1318 1540 | TIME | | ABSTRACT OF TIDE |
| | 9 8 9 9 5 5 6 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | t 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 555550000000000000000000000000000000000 | d. TIDE REDUCERS FT. XTMSX | 3 SURVEY LOCATION Key West Area | TRACT OF TIDE CORRECTIONS (See instructions on reverse side) |
| APPOOVED | | | | • MACHINE ENTRY FT. FMS. | Area - Florida | χ. |
| | | , | All data on this sheet is derived from the Standard Tide Gage installed at Key West, Florida. | f. TIDE STATION USED (As Form 681) | æ | COAST AND GEODETIC SURVEY |
| | | | | 9- CORRECTION USED ZONE DESIGNATION | 4. TIME MERIDIAN 75° West | PAGE 2 |

The information entered on this form shall be derived from associated tide records and together with those records be forwarded to the Washington Office for administrative approval by Tides and Currents Branch, Marine Data Division, Office of Oceanography.

Instructions by item number.

- 1. Enter the survey number
- 2. Enter the field number.
- 3. Enter the survey locality.
- 4. Enter the time meridian used.
- Checked: Enter field approval
 Approved: Indicate Washington Office approval.

Instructions by columns (letters):

- a. Enter the day of the year. A coded entry must be identifiable in the Washington Office.
- b. Enter the position number of the sounding line where the reducer is to first apply.
- c. Enter the time in hours and minutes that the reducer listed in "d" is used.
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- g. Enter the additional information used to determine the corrections: Ratio of Range, ± time necessary to correct for the gage position, and zone designation.

| - | 30 July 65 h (211) | 28 July 65 g (209) (Cont'd) | MO. DAY YR. OR DAY NO. (Date) | н- 8844 | FORM C |
|--|--------------------------------------|---|---|----------------|--|
| | | | b. POSITION NUMBER | | Y 20 |
| 0253 0506 0506 0506 0506 0509 0603 0603 0603 0603 0603 0603 0603 06 | 0000 0021 0104 0148 | 1301 1319 1338 1400 1423 1501 | FROM | | AE |
| 1558 1158 1158 1158 1158 1158 1158 1158 | 0020 0103 0140 0217 0252 | 1318 1337 1359 1122 1500 1700 | TIME | - 65 | ABSTRACT OF TI |
| + 0 + 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 00000 | -0.4 -0.2 -0.2 +0.4 +0.6 | d. TIDE REDUCERS FT. JENKS | Key West Are | TRACT OF TIDE CORRECTIONS (See instructions on reverse side) |
| | | | e. MACHINE ENTRY FT. FMS | Area - Florida | N.S. |
| | | All data on this sheet is derived from the Standard Tide Gage installed at Key West, Florida. | f. TIDE STATION USED (As Form 681) | da | U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY |
| | | | 9- CORRECTION USED ZONE DESIGNATION | 75° West | PAGE 33 |

The information entered on this form shall be derived from associated tide records and together with those records be forwarded to the Washington Office for administrative approval by Tides and Currents Branch, Marine Data Division, Office of Oceanography.

Instructions by item number.

- 1. Enter the survey number
- 2. Enter the field number.
- 3. Enter the survey locality.
- 4. Enter the time meridian used.
- Checked: Enter field approval
 Approved: Indicate Washington Office approval.

Instructions by columns (letters):

- a. Enter the day of the year. A coded entry must be identifiable in the Washington Office.
- b. Enter the position number of the sounding line where the reducer is to first apply.
- c. Enter the time in hours and minutes that the reducer listed in "d" is used.
- d. Enter the tide reducer necessary to correct the sounding to the plane of the reference.

The value entered by the field personnel shall be certified by the Washington Office, or corrected and returned to the originator. Only approved information can be entered into the smooth (edited) tape.

e. Enter the tide value from the previous column (Tide reducer) applied to a tide base of +60.0.

- f. Enter the origin of the tidal record from which the reducers in column "d" were derived. The entry must be identical with the terminology expressed in form 681.
- g. Enter the additional information used to determine the corrections: Ratio of Range, ± time necessary to correct for the gage position, and zone designation.

| 5. CHECKED | 31 July 65 5 (212) | 30 July 65 h (211) (Cont'd) | MO. DAY YR. OR DAY NO. (Date) | - | 1 |
|------------|--|---|------------------------------------|-----------------------------------|------------------------------------|
| | | | b. POSITION NUMBER | NO: | |
| | 1002 1044 1117 1231 1301 1318 1423 1451 1546 1601 1601 1601 1902 1948 2023 2101 2144 2219 2301 | 1915 1945 2020 2139 2221 | FROM | 2. FIELD NO. | |
| | 1040 1230 1300 1300 1357 1422 1450 1514 1523 1600 1623 1700 1947 2022 2100 2143 2218 2300 2400 | 1944 2019 2138 2220 2400 | TIME | U. | (See instructions on |
| | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.000 | d. TIDE REDUCERS | 3. SURVEY LOCATION Key West Area | (See instructions on reverse side) |
| APPROVED | | | e. MACHINE ENTRY FMS. | Area - Florida | |
| | | All data on this sheet is derived from the Standard Tide Gage installed at Key West, Florida. | f. TIDE STATION USED (As Form 681) | ida | |
| | | | GORRECTION USED ZONE DESIGNATION | 4. TIME MERIDIAN 75° West | :2 |

The information entered on this form shall be derived from associated tide records and together with those records be forwarded to the Washington Office for administrative approval by Tides and Currents Branch, Marine Data Division, Office of Oceanography.

Instructions by item number.

- 1. Enter the survey number
- 2. Enter the field number.
- 3. Enter the survey locality.
- 4. Enter the time meridian used.
- Checked: Enter field approval
 Approved: Indicate Washington Office approval.

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- a. Enter the day of the year. A coded entry must be identifiable in the Washington Office.
- b. Enter the position number of the sounding line where the reducer is to first apply.
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e. Enter the tide value from the previous column (Tide reducer) applied to a tide base of +60.0.

- f. Enter the origin of the tidal record from which the reducers in column "d" were derived. The entry must be identical with the terminology expressed in form 681.
- g. Enter the additional information used to determine the corrections: Ratio of Range, ± time necessary to correct for the gage position, and zone designation.

U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY

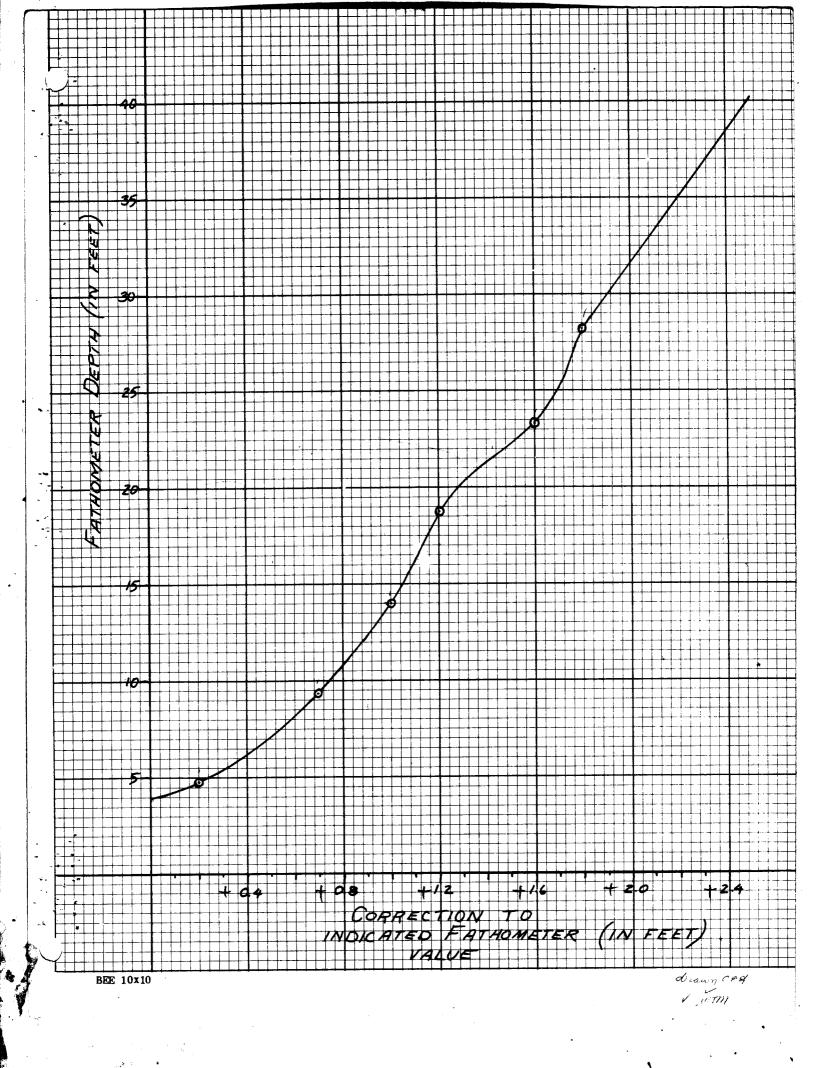
VERIFIER'S REPORT HYDROGRAPHIC SURVEY, H _88世

INSTRUCTIONS - This form serves to identify items of a check list in verification together with items which are separately reported to the Reviewer. The form is not to be forwarded to the Reviewer. A report, which is prepared for the Reviewer, should identify items by number and letter and will be filed in the Descriptive Report until the survey is reviewed.

- CL Check List Items: should be checked as having been completed during the verification processes.
- R . Report Item: This column refers to those items reported to the reviewer and is used to indicate the items discussed.

| Port I - DESCRIPTIVE REPORT | CL | R | Part III - JUNCTIONS (Continued) | CL | R |
|--|----|---|--|----|---|
| Note: The verifier should first read the Descriptive Report for general information and problems. | | | - 10. Junctions with contemporary surveys were satisfactory except as follows: | | |
| The Descriptive Report was consulted, paragraphs checked if found satisfactory, and notations were made in soft black pencil regarding action taken. Remarks Required: None | | | Remarks Required: Consider conditions after adjustments have been made; note adjustments made. Make special notes of Butt junctions and areas which are SUPERSEDED. | | |
| Soundings originating with the survey and mentioned in the Descriptive Report have been verified and checked in soft black pencil, including latitude and longitude, together with position identification. Remarks Required:None | | | Port IV - VOLUMES 11. 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 and exceptions noted in the volumes. | | |
| All reference to survey sheets mentioned in the Descriptive Report should include registry number and year. | | | Remarks Required: None | | |
| Remarks Required: None | | | 12. Condition of sounding records was satisfactory except as follows: | | |
| Part II - SHORELINE AND SIGNALS 4. Source of shoreline signals Remarks Required: List all surveys | | | Remarks Required: Mention deficiencies in completeness of notes or actions for the following: | | |
| Give earliest and latest dates of photo- graphs | | | (a) rocks (b) line turns | | |
| b. Field inspection datec. Field Edit date | | | (c) position values of beginning and ending of lines | | |
| d. Reviewed-Unreviewed | | | (d) bar check or velocity correctors | | |
| The transfer of contemporary topographic information was carefully examined and rec- onciled with the hydrography. | | | (e) time recording (f) notes or markings on fathograms | | |
| Remarks Required: Discuss remaining differences. | | | (g) was reduction of soundings accurately done? | | |
| 6. The plotting of all triangulation stations, topographic stations and hydrographic signals has been checked and noted in processing stamp No. 42 on the smooth sheet. Remarks Required: None | | | (h) was scanning accurate? (i) were peaks at uneven intervals missed? (j) were stamps completed? (k) references to adjacent features | | |
| Objects on which signals are located and which fall outside of the high-water line have been described on the sheet. Remarks Required: List those signals still unidentified. | | | Port V - PROTRACTING 13. All positions verified instrumentally were check marked in color in the sounding records, and verifier initialed the processing stamp. Remarks Required: None | | |
| Part III - JUNCTIONS Note: Make a cursory comparison preliminary to inking soundings in area of overlap. | | | 14. The protracting and plotting of all unsatisfactory crossings were verified. | | |
| All junctions of contemporary or overlapping sheets were transferred in colored ink and overlapping curves were made identical. | | | Remarks Required: None | | |
| Remarks Required: None 9. The notation in slanted lettering "JOINS H(19)" was added in colored ink for all verified contemporary adjoining or overlapping sheets. Those not verified are shown in pencil. | | | 15. All detached positions locating critical soundings, rocks, buoys, breakers, obstructions, kelp, etc., were verified and the position numbers are legible. | | |
| Remarks Required: None | | - | Remarks Required: None | | |

| Part V - PROTRACTING (Continued) 16. The protracting was satisfactory except as follows: Remarks Required: Refers to protracting | CL_ | - R | 26. All fixed aids located together with those on the contemporary topographic sheets, have been shown on the survey. | | |
|--|-----|-----|--|---|---|
| in general except for specific faults repeated often, or faults in control information, which required considerable replotting or adjustments. | | | Remarks Required: Conflicts of any nature listed. | | |
| 17. The protractor has been checked within the last three months. Remarks Required: Date of check, type of protractor and number. | | | 27. All floating aids listed in the Descriptive Report should be verified and checked in soft black pencil, including latitude and longitude and position identification. | | |
| Part VI - SOUNDINGS | | | Remarks Required; None | · | |
| 18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings. Remarks Required: None | | | Part IX - BOAT SHEET 28. The boat sheet was constantly compared with the smooth sheet with reference to notes, position of sounding lines and supplemental information. | | |
| 19. Sounding line crossings were satisfactory except as follows: | | | Remarks Required: None | | |
| Remarks Required: Discuss adjustments. | | | 29. Heights of rocks awash were correctly reduced and compared with topographic information. | | |
| 20. The spacing of soundings as recorded in the records was closely followed; | | | Remarks Required: Note excessive con- flicts with topographic information. | | |
| Remarks Required: None | | | Part X - GENERAL | | |
| 21. The scanning, reduction, spacing, plotting of questionable soundings have been verified. | | | 30. All information on the sheet is shown in accordance with figures 82 and 83 in the Hydrographic Manual (Pub. 20-2). | | , |
| Remarks Required: None | | | Remarks Required: None | | |
| 22. The smooth plotting of soundings was satis- factory except as follows: | | | | | ļ |
| Remarks Required: - Refer to legibility, errors in spacing, and errors in numbers - but not to errors in scanning. | | | 31. Unnecessary pencil notes have been removed from the sheet. Remarks Required: None | | |
| | | | Remarks Required. None | | |
| Part VII - CURVES 23. The depth curves have been inspected before inking. Remarks Required: By whom was the penciled curves inspected. | | | 32 Degree, minute values and symbols have been checked; also electronic distance arcs have been properly identified and checked on the smooth sheet. | | |
| 24. The low-water line and delineation of shoal areas have been properly shown in accordance with the following: | | | Remarks Required: — None | | |
| a. From T-Sheet in dotted black linesb. From soundings in orange | | | 33. The bottom characteristics are adequately shown. | | |
| c. Approximate position of sketched curve is dashed orange | | | Remarks Required: None | | |
| d. Approximate position of shoal area not sounded in black dashed | | | Part XI - NOTES TO THE REVIEWER | | |
| Remarks Required: None | | | 34. Unresolved discrepancies and questionable soundings. | | - |
| 25. Depth curves were satisfactory except as follows: (This statement should not refer to the manner in which the curves were drawn). Remarks Required: Indicate areas where | | | 35. Notation of discrepancies with photogrammetric survey inserted in report of unreviewed photogrammetric survey or on copy. | d | |
| curves could not be drawn completely because of lack of soundings. For some inshore areas a general statement is sufficient. | | | 36. Supplemental information. | | |
| Verified by | 1 | | Date | | |



DESCRIPTIVE REPORT - HYDROGRAPHIC SURVEY (HY-10-1-65) - LAUNCH HY-1
USC&GS SHIP HYDROGRAPHER - 1965 - cont'd.

INDEX OF BOTTOM SAMPLES

| All of | the samples | listed below a | ere in Volume V | • | |
|---|-------------|------------------|---------------------------------|----------------|--|
| Day | | Position | Day | | Position |
| Letter | Date | Number | Letter | Date | Number |
| | | | _ | | |
| f | July 27 | 01 | f | July 27 | 40 |
| f | 17 | 02 | f | n | 42 |
| f | tt | 03 | f | £ţ. | 44 |
| f | 11 | 04 | f | 11 | <u>µ6</u> |
| Î | tt | 05 | f | t1 | 48 |
| f | n | 06 | f f f f f | n | 48 45 55 55 55 55 55 55 55 55 56 56 56 57 56 56 56 57 56 56 56 57 56 56 56 56 56 56 56 56 56 56 56 56 56 |
| f | \$1 | 07 | f | 11 | 53 |
| f | \$1 | 08 | f | t t | 55 |
| £ | tt | 10 | £ | n | 57 |
| f | 11 | 12 | f | n | 59 |
| f | 11 | 16 | f | Ħ | 61 |
| f | n | 1.8 | f | 81 | 63 |
| f | 11 | 21 | f f f f | n | 65 |
| f | tf | 2 <u>1</u> 23 | f | 11 | 71 |
| f | tt | 25 27 | f f | Ħ | 73 75 |
| f | 11 | 27 | f | Ħ | 75 |
| £ | 11 | 29 | f | tt | 77 |
| 111111111111111111111111 | 11 | 30 | f f f f | 11 | 79 |
| f | 11 | 32 | f | n | 81 |
| f | ıı | 34 | f | 11 | 83 |
| f | tt | 36 | f | Ħ | 85 |
| f | 11 | 38 | f | 11 | 87 |
| | | | | | • |
| All of | the samples | listed below | are in Volume V | III | |
| i | July 31 | 149 | i | July 31 | 379 |
| j | n | 15ó | ָ י | 11 | 380 |
| ř | 11 | 151 | . | 11 | 381 |
| , 1 | 11 | 152 | ٠ ١ | n | 382 |
| 4 | Ħ | 152 162 | ٠ ١ | 11 | 383 |
| ř | 11 | 373 | J i | 11 | 383 384 |
| j | 11 | 374 | j | 11 | 385 |
| j | . " | 375 | ง ร่ | 11 | 386 |
| ن 1 | 11 | 376 | J | 11 | 387 |
| J | 11 | 377 | J J | 11 | 388 |
| ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;; | 11 | 378 | j j j j j j j | 11 | 389 |
| J | ••• | 210 | J | te | 307 |

DESCRIPTIVE REPORT - HYDROGRAPHIC SURVEY (HY-10-1-65) - LAUNCH HY-1
USC&GS SHIP HYDROGRAPHER - 1965 - cont'd.

VELOCITY CORRECTIONS

ABSTRACT OF BAR CHECKS

All entries in feet and tenths

Table 1

July 22 through July 31

| Depth | Correction |
|--------------|------------|
| 4.2 to 5.4 | + 0.2 |
| 5.5 to 7.2 | + 0.4 |
| 7.3 to 9.3 | + 0.6 |
| 9.4 to 12.3 | + 0.8 |
| 12.4 to 16.2 | + 1.0 |
| 16.3 to 20.2 | + 1.2 |
| 20.3 to 22.2 | + 1.4 |
| 22.3 to 25.1 | + 1.6 |
| 25.2 to 29.8 | + 1.8 |
| 29.9 to 33.3 | + 2.0 |
| 33.4 to 36.7 | + 2.2 |
| 36.8 to 40.2 | + 2.4 |

RAYDIST CORRECTIONS

The following listed corrections apply to all hydrography accomplished on Sheet HY-10-1-65 (H-8844). Corrections are listed for the whole day without regard to time with the exception of "h" day. No lane losses or gains were observed during the course of the survey.

| | | | Corrections | | |
|-----|---------------|--------------------------------------|----------------|----------------|--|
| Day | Date | From To | <u>(R1)</u> | (R2) | |
| | 7-22 | All day | - 0.7 | + 0.5 | |
| ъ | 7-23 | All day | - 0.7 | - 1.5 | |
| c | 7-24 | 083230-085145 ATT day (Rest of | - 0.7 - 0.7 | + 0.5 - 1.5 | |
| d | 7 - 25 | All day | - 0.7 | - 1.5 | |
| e | 7-26 | All day | - 0.7 | - 1.5 | |
| f | 7-27 | All day | - 0.7 | - 1.5 | |
| g | 7-28 | All day | - 0.7 | - 1.5 | |
| h | 7-30 | 0612 1145 1425 1630 | + 0.3 - 0.7 | - 0.5 - 1.5 | |
| j | 7-31 | All day | - 0.7 | + 0.5 | |

SIGNAL NAMES

| Signal Name | Triangulation |
|-------------|---|
| EAST | East Triangle Light 1934 1953 |
| KING | Kingfish Shoal Light 1934 1956 |
| West | Northwest Channel Inner Range Light 1934 |

APPROVAL SHEET

Field No. HY-10-1-65

Registry No. H-8844

The smooth sheet and accompanying records have been examined by me and are approved. During the progress of the field work, the boatsheet was inspected daily.

Wire dragging to locate coral heads in the area of this survey has been assigned to the Ships HILGARD and WAINWRIGHT. When this work is completed, it is believed that the survey will be complete and adequate for charting purposes.

Harry D. Reed, Jr., CDR, USC&GS

Commanding Officer

USC&GS Ship HYDROGRAPHER

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Atlantic Marine Center:

Hourly heights are approved for Form 411 (8 Volumes)

Tide Station Used (NOAA Form 77-12): Key West

Period: July 22 - 31, 1965

HYDROGRAPHIC SHEET: H-8844

OPR: SP 5-65

Locality: Key West Naval Anchorage Area

Plane of reference (mean lower low water): 4.5 ft.

Height of Mean High Water above Plane of Reference: 1.3 ft.

Remarks: Zone direct.

Jones & Hulbard

An Chief, Tides Branch

FORM 197 (3-16-55)

GEOGRAPHIC NAMES

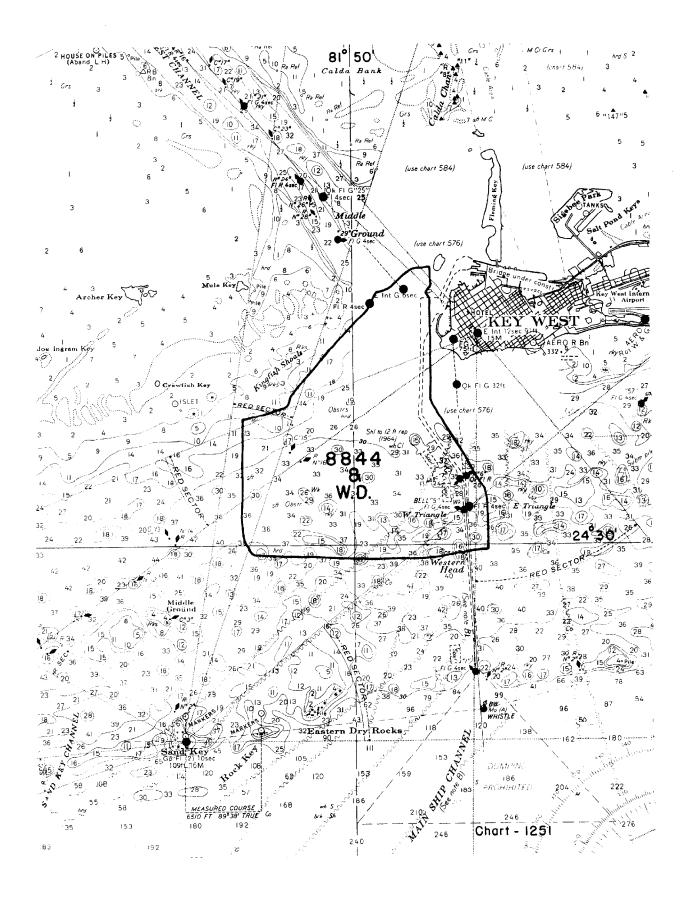
F Coude or was Survey No. H-8844 Name on Survey East Triangle Florida (title) Florida Kays Key West Maral Anch. (title) Kingfish Shoals Main Ship Channel 27___

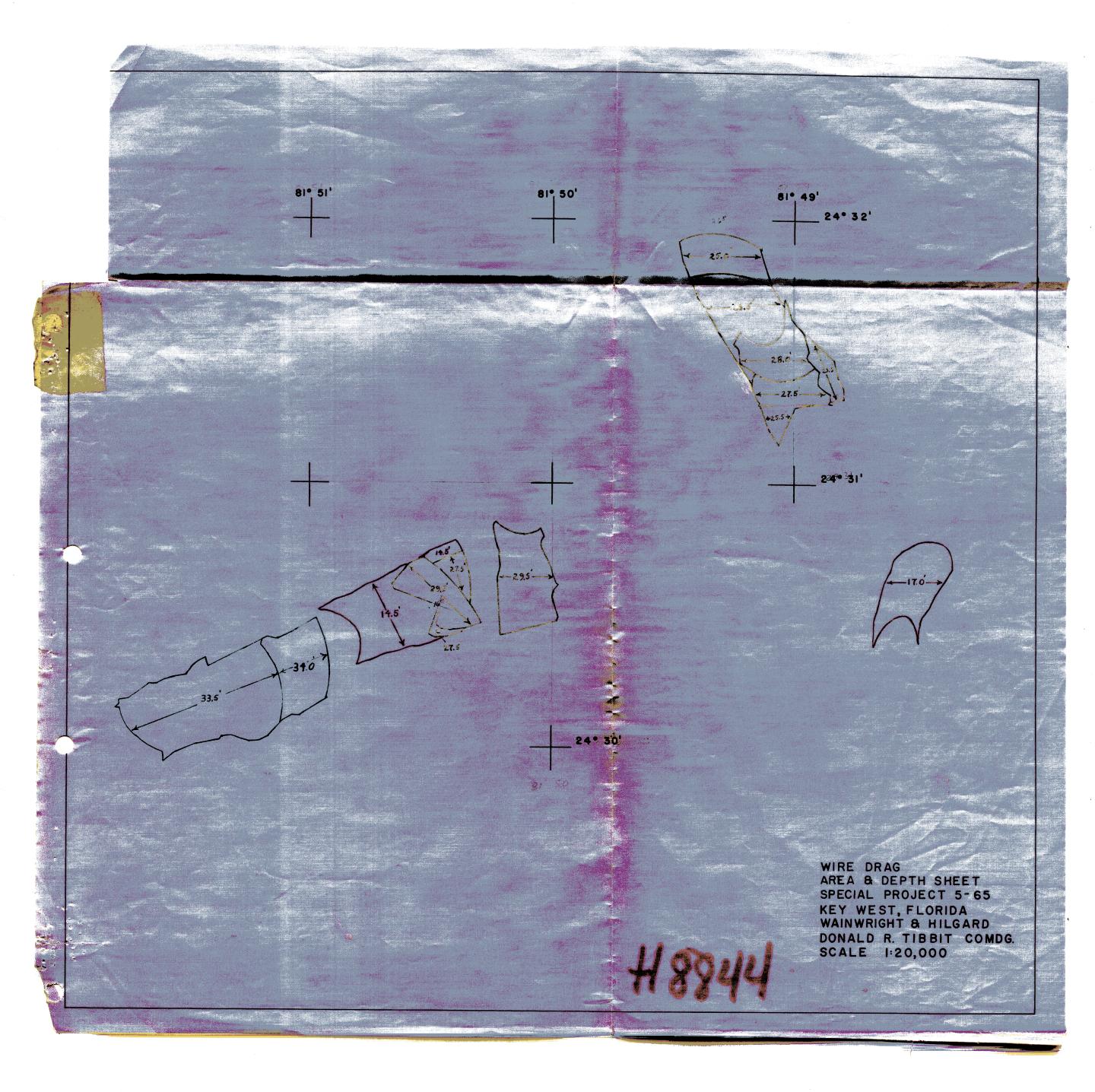
FORM **C&GS-946** (REV. 3-1-64) (PRESC. BY HYDROGRAPHIC MANUAL 20-2, 6-94, 7-13)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY NAUTICAL CHART DIVISION

HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. 8844

| RECORDS ACC | OMPANYING SUR | VEY: To | be compl | leted v | whe | n survey | is registered. | | | |
|------------------------|------------------|---------|-------------|-----------------|-------------|--------------|--------------------------------|--|---------|-----------------------------------|
| RECOR | D DESCRIPTION | | АМО | DUNT | | | RECORD DESCRIPTION | | | AMOUNT |
| SMOOTH SHEET | | | 1 | | BOAT SHEETS | | | | 1 | |
| DESCRIPTIVE REPORT 1 | | | | ` | OVERL | AYS | | | | |
| DESCRIPTION | DEPTH RECORDS | HORIZ. | | PR | HINT | outs | TAPE ROLLS | PUNCHE | D CARDS | ABSTRACTS/ SOURCE DOCUMENTS |
| ENVELOPES | | | · | | | | | | | |
| CAHIERS | | | | | | | | | | |
| VOLUMES | ¥8 8+1 | | | | | | | | | |
| BOXES | | | | | | | | | | |
| T-SHEET PRINTS | (List) | | | | | | | | | |
| SPECIAL REPOR | TS (List) | | | | | | | ······································ | | |
| | The following st | | | | | | TIVITIES artographer's repo | ort on the | survey | |
| | | | | | АМС | UNTS | | | | |
| PR | OCESSING ACTIV | / IT Y | | VEF | | E- CATION | VERIFICATION | REV | IÈW | TQTALS |
| POSITIONS ON SI | HEET | | | | | | | | | |
| POSITIONS | CHECKED | | | | | | | | · | |
| POSITIONS | REVISED | | | | | | | | | |
| DEPTH SOUNDIN | IGS REVISED | | | | | | | | | |
| DEPTH SOUNDIN | IGS ERRONEOUSLY | SPACED | | | | | | | | |
| SIGNALS ERRON | EOUSLY PLOTTED | ORTRAN | SFERRED | | | | | | | |
| | | | | TIME (MANHOURS) | | | | | | |
| TOPOGRAP | HIC DETAILS | | | | | | | | | |
| JUNCTIONS | 3 | | | | | | | | | |
| VERIFICAT GRAPHIC F | TION OF SOUNDING | S FROM | | | | | | | - | |
| SPECIAL ADJUSTMENTS | | | | | | | | | | |
| ALL OTHE | R WORK | | | | | | | | | |
| TOTALS | | | | | | | | | | |
| PRE-VERIFICATI | ON BY | | | | **** | | BEGINNING DATE | | ENDING | DATE |
| VERIFICATION B | Υ | | | | | | BEGINNING DATI | | ENDING | DATE |
| REVIEW BY | | | | | | | BEGINNING DATE | <u> </u> | ENDING | DATE |





NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

H-8844 FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

- A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

 1. Letter all information.

 2. In "Remarks" column cross out words that do not apply.

 3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

| CHART | DATE | CARTOGRAPHER | REMARKS |
|----------------|---------|----------------|---|
| 76 | 3/16/66 | 1. Pweis | Full Part Before After Verification Review Inspection Signed Via |
| 1.14 | 7/10/44 | 7 | Drawing No. Added one sociating |
| 8 54 | 5/12/66 | HK | Enl! Part Before After Verification Review Inspection Signed Via |
| 6 37 | 7 / - | | Drawing No. no core at this time. |
| 11/2 | 0-2 11 | H.Radden | Part Before Verification Review Inspection Signed Via |
| 1772 | 0 2-66 | n-Aaaca | Drawing No. 26 Examine. Hry Cht. 584 22 No Corr |
| 111 | 2/11 | 0 40 1111 | Full Part Before After Verification Review Inspection Signed Via |
| 1002 | 8/66 | C Musfeldt | Drawing No. no corr hydro deletod |
| | | | Alsevata |
| 576(14 | 7/29/76 | The Jean II | Full Base Before After Verification Review Inspection Signed Via |
| ` | | 0 ' | Drawing No. Paleopy T Appuestion - Certical of Fill in |
| 584 | 1-23-79 | . Facto I Vary | SONONES Before After Verification Review Inspection Signed Via |
| | | July 1 | Drawing No. 38E38 M |
| (11443) 854 | 1-0 | Of the A Cons | Full Part Before Acc: Verification Review Inspection Signed Via |
| 854 | 1-26-79 | Hapke Jury | Drawing No. 208 (9-14-77) |
| | | | 1069uasé |
| 11442 | 1-27-79 | Stephen Kerry | Pull Part Before Acces Verification Review Inspection Signed Via Drawing No. 44 (7,18-79) |
| | | | Drawing No. 44 (7-13-79) |
| | | | Full Part Before After Verification Review Inspection Signed Via |
| | | | Drawing No. |
| | | | Full Part Before After Verification Review Inspection Signed Via |
| | | | Drawing No. |
| | | | |
| | | | |
| | | | |
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| | | | |
| | | | |
| | | | |

8844 WIRE DRAG

Diag. Cht. No. 1251-2.

Form 504

U. S. DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Wire Drag - SP 5-65

To be transferred to

Field No. HY 10-1-65 Office No. H-8844

LOCALITY

State FLORIDA

General locality Atlantic

Locality Key West, Florida

19.65

CHIEF OF PARTY

LCDR Donald R. Tibbitt

LIBRARY & ARCHIVES
DEC 9 - 1955

DATE

USCOMM-DC 5087



DESCRIPTIVE REPORT

To Accompany

Wire Drag Investigations

PROJECT SP 5-65

KEY WEST, FLORIDA

1965

Donald R. Tibbitt - Chief of Party

A. AUTHORITY:

SUPPLEMENTAL INSTRUCTIONS: SPECIAL PROJECT 5-65 CURRENT OBSERVATIONS AND GROUNDING INVESTIGATIONS, KEY WEST, FLORIDA, dated September 13, 1965, served as authority for the work on this priject.

B. DATES

Field work was begun on October 10, 1965 and were completed on October 15, 1965.

C. CHARACTER AND LIMITS OF THE WORK

The purpose of the survey was to investigate certain discrepancies between survey H-8844 (HY 10-1-65) and the chart C&GS 584. Any shoals or obstructions verified were to be cleared to within 2 feet of its least depth. The investigations were in an area extending from one to four miles to the southwest of Key West, Florida.

D. SURVEY METHODS

Standard wire drag procedures were used thoughout the project. SCUBA divers were used to investigate hangs and facilitate drag work. A report on the season's diving operation is in preparation and will be forwarded upon completion.

no

E. CONTROL

Visual control, with 3-point sextant fixes, was used throughout the project. Signals used were prominent charted objects. Standard dual control methods were used, and cuts to the end buoy and the opposite vessel were taken immediately after the regular fix. The cuts were designated plus (+) if the object was to the right of the signal used, and minus (-) if the object was to the left. Length of the towline was from the center of the wheelhouse to the end buoys in each case.

F. VESSELS & EQUIPMENT

The Ships WAINWRIGHT and HILGARD were used as guide and end launch respectively. The HILGARD's skiff was used as a drag tender.

Standard wire drag equipment was used throughout the project.

G. TIDAL CORRECTIONS

All soundings and effective depths are in feet at Mean Low Water. See Tide Note and List of Corrections attached to this project.

H. ADEQUACY OF THE SURVEY

This survey is considered complete and adequate to supercede all prior surveys. For specific recommendations, see attached List of Investigations.

I. COMPARISON WITH CHART AND PRIOR SURVEYS

The findings of this survey were compared with C&GS Chart 584 and prior survey H-8844 (HY 10-1-65. Discrepancies and recommendations are noted in the attached List Of Investigations.

J. BOAT AND SMOOTH SHEETS

Two 1:20,000 scale boat sheets supplied by the Washington Office were used for plotting during the project. Since it is intended to transfer the results of this survey to the smooth sheet of H-8844 (HY 10-1-65), no smooth sheet is submitted. Smooth sheet plotting procedures were incorporated in the final

plot being submitted on one of the original boat sheets (the one used by the end vessel). The original boat sheet used by the guide vessel (WAINWRIGHT) is also being forwarded for informational purposes.

K. LIST OF ATTACHMENTS

- 1. Statistics
- 2. Tide Note
- 3. Tide Corrections
- 4. List of Signals 5. List of Investigations

Respectfully submitted,

Donald R. Tibbitt LCDR USESSA

APPROVAL SHEET

The attached report, related wire drag records and plotting sheets have been inspected and are approved.

Donald R. Tibbitt LCDR ESSA

Commanding WAINWRIGHT & HILGARD

Attachment No. 1

STATISTICS

SP 5-65

| Vol | Day- | 1965 | Number of Positions | Statute | Square |
|-----|---------------|-------------|---------------------|--------------|-----------------------|
| No. | <u>Letter</u> | <u>Date</u> | | <u>Miles</u> | <u>Nautical Miles</u> |
| 1 | A | 10/10 | 53 | 2.3 | 0.45 |
| 1 | B | 10/11 | 38 | 0.8 | 0.07 |
| 1 | C | 10/15 | 30 | 1.7 | 0.21 |

TIDE NOTE

Hourly tide heights were supplied by the Washington Office as observed at Key West, Florida, Standard Tide Gage - corrected to Sand Key Light. (75th Time Meridian)

Attachment No. 3

TIDAL CORRECTIONS

10 October 1965 A day

| | | Time from - to | Correction (feet) |
|----|---------|--|-----------------------------|
| | | 0900 - 1053 1053 - 1220 1220 - 1354 1354 - 1700 | -1.5 -1.0 -0.5 0.0 |
| | | | |
| 11 | October | 1965 B day | |
| | | 0900 - 1146 1146 - 1320 1320 - | -1.5 -1.0 -0.5 |
| | | | |
| 15 | October | 1965 C day | |
| | | 0800 - 0937 0937 - 1220 1220 - 1400 | 0.0 -0.5 -1.0 |

Attachment No. 4

| NAME | | SOURCE |
|------|----------|--|
| EAST | - | Eastern Triangle Light, 1913-19 |
| KING | - | Kingfish Shoal Light, 1934 |
| KEY | - | Key West Naval Station Water Tank, 1956 |
| SAND | - | Sand Key Light, 1853, 1905, 1919, 1934, 1935 |
| RAD | - | Key West, Department of Commerce East Radio Mast, 1943, 1956 |

LIST OF INVESTIGATIONS

P.R. Item No. 1:

26 ft. sdg., Lat. 24° 31', 98", Long. 81° 49! 33"

The shoal was located with fathometer and verified by SCUBA divers with hand-lead line (Pos. 1 and 2 A). The least depth obtained was 26.5 feet. This is a sand shoal. An attempt was made to clear the shoal; but due to the position of a mooring bouy and the direction of the current, a clearance was not obtained with a normal bight in the drag. The drag was pulled over the area with a clearance of 25 feet, with a slack drag. This failure to obtain a good clearance over this shoal was not discovered until after the vessels had returned to Norfolk, and the smooth plot completed. It is recommended that this shoal be charted with a least depth of 25 feet.

P.R. Item No.2%:

16 ft. sdg., Lat. 24° 31', 39", Long. 81° 49', 05"

The existence of this shoal was disproved by wire drag. The area was cleared in two directions.with an effective depth of 27.5 feet. (Pos. 5A thru 42A) It is recommended that this sounding not be charted.

P.R. Item No. 3:

25 ft. sdg., Lat 24° 30! 76°, Long. 81° 50'. 11°

The existence of this shoal was disproved by wire drag. Effective clearance in the area was 29.5 feet. (Pos. 1B thru 13B) Mooring buoy and excessive current in area prevented clearance in opposite direction. It is recommended that this sounding not be charted.

P.R. Item No. 4:

26 ft. sdg., Lat. 24° 30! 13", Long. 81° 51! 40"

The existence of this shoal was disproved by wire drag in two directions. Effective clearance was 33.5 feet. (Pos. 1C thru 30C) It is recommended that this sounding not be charted.

P.R. Item No. 5:

15 ft. & 17 ft. sdgs., Lat 24° 31! 45#, Long. 81° 49! 02#

The existence of this shoal was disproved by wire drag in two directions. Effective clearance was 27.5 ft. (Post 1B thru 13B) It is recommended that these soundings be removed from the chart.

P.R. Item No. 6:

Wreckage, Lat 24° 30', 68", Long 81° 48', 46"

The existence and/or location of this wreckage could not be positively proved or disproved. The area of the wreckage was cleared by wire drag. Effective clearance was 17.0 ft. Further investigation was complicated by numerous shoals, bouys and heavy currents in the area. Although it is doubtful that the wreck exists in this area, at the present time, it must be recommended that it continue to be charted in the present location but shown as being cleared at 17 feet by wire drag.

P.R. Item No. 7:

14 ft. sdg., Lat 24° 30! 54", Long 81° 50! 42"

3214"

The existence of this shoal was verified by wire drag and SCUBA divers with hand-lead line. The shoal is a prominent coral head and is covered by 16.5 feet of water, as determined by divers with hand headline. Effective clearance was 14.5 feet (Pos. 30B thru 38B). It is recommended that the shoal be charted as cleared by 14.5 feet. The location of the shoal is 78 meters in a direction of 254°T from the charted position.

FORM C&GS-946 (REV. 3-1-64) (PRESC. BY HYDROGRAPHIC MANUAL 20-2, 6-94, 7-13)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY NAUTICAL CHART DIVISION

HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. 8844 W.D.

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered.

| RECORD DESCRIPTION | | AMOUNT | | RECORD DESCRIPTION BOAT SHEETS | | | AMOUNT | |
|--------------------|------------------|-------------------------|---|---------------------------------|--|------------|---------------|-----------------------------------|
| | | | | | | | 2 | |
| DESCRIPTIVE REPORT | | | 1 | 1 OVERLA | | AYS | | |
| DESCRIPTION | DEPTH RECORDS | HORIZ. CONT. RECORDS | | PRINTOUTS | | TAPE ROLLS | PUNCHED CARDS | ABSTRACTS/ SOURCE DOCUMENTS |
| ENVELOPES | 4 | | | | | | | |
| CAHIERS | ##/ | | | | | | | |
| VOLUMES | 2 | | | | | | | |
| BOXES | | | | | | | | |

T-SHEET PRINTS (List)

SPECIAL REPORTS (List)

1-Area and Depth Sheet

OFFICE PROCESSING ACTIVITIES The following statistics will be submitted with the cartographer's report on the survey

| | | AMOUNTS | | | | | | |
|--|----------------------|----------------|-------------|--------|--|--|--|--|
| PROCESSING ACTIVITY | PRE- VERIFICATION | VERIFICATION | REVIÉ₩ | TOTALS | | | | |
| POSITIONS ON SHEET | | | | | | | | |
| POSITIONS CHECKED | | | | | | | | |
| POSITIONS REVISED | | | | | | | | |
| DEPTH SOUNDINGS REVISED | | | | | | | | |
| DEPTH SOUNDINGS ERRONEOUSLY SPACED | | | | | | | | |
| SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERREI | 0 | | | | | | | |
| | | TIME (MA | NHOURS) | | | | | |
| TOPOGRAPHIC DETAILS | | | | | | | | |
| JUNCTIONS | | | | | | | | |
| VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS | | | | | | | | |
| SPECIAL ADJUSTMENTS | | | | | | | | |
| ALL OTHER WORK | | | | | | | | |
| TOTALS | | | | | | | | |
| PRE-VERIFICATION BY | | BEGINNINGDATE | ENDING | DATE | | | | |
| VERIFICATION BY | | BEGINNING DATE | ENDING | DATE | | | | |
| REVIEW BY | BEGINNING DATE | | ENDING DATE | | | | | |

USCOMM-DC 6641-P64