

5925 (Additional work 1939)

MAR 18 1939

(Additional work 1939)

5925

Form 504  
Rev. Dec. 1933

DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY  
L.O. Colbert, Director

SUPPLEMENTAL  
DESCRIPTIVE REPORT

*Topographic* } Sheet No. H-5925  
*Hydrographic* }

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State Florida

LOCALITY  
Florida Keys

Bay Cudjoe (Sawyer) Key to Sugarloaf

Key

---

1939

CHIEF OF PARTY  
E.R. McCarthy

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

NAVY & MARINE CORPS  
FILES AND ARCHIVES

MAR 16 1939

REG. NO.

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.

Field No. 7

REGISTER NO. H-5925 (Addl. Wk. 1939)

State Florida

General locality Florida Keys

Locality Bay Gudjoe (Sawyer) Key to Sugarloaf Key

Scale 1:10000 Date of survey Feb-March 1939, 19

Vessel Shore Party #1

Chief of Party E. R. McCarthy

Surveyed by E. R. McCarthy, P. A. Weber

Protracted by E. R. McCarthy

Soundings penciled by do

Soundings in ~~fathoms~~ feet

Plane of reference Mean Low Water

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated July 20 & August 6 1934, 19

Remarks: Additional supplemental work to complete area

## DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET H-5925

AUTHORITY

Instructions of Director to W. H. Bainbridge dated July 20 1934 and supplemental instructions dated August 6 1934.

LIMITS

Development of areas indicated on boat sheet sent to field and incompletd areas indicated in the original descriptive report.

METHODS

The standard methods of lead line hydrography were used. Position was fixed on objects located by triangulation, topography, or sextant. Soundings were taken with a leadline graduated in feet and fathoms or with a pole graduated in feet and tenths.

EQUIPMENT

One 24' leased launch with internal combustion engine.

DISCREPANCIES

The 1939 work checks quite well with the 1935 work. The additional split lines cause a change in the depth curves due to the uneven and lumpy bottom in the gulf areas between the keys and the 12' curve.

The indications seem to point to a constant change in the sand areas probably due more to current than wind.

EXAMINATION OF SHOALS AND DANGERS

The original descriptive report lists a number of shoals and dangers which were not developed or investigated in 1935 because of the sudden exhaustion of funds.

The numbers from 1 to 18 inclusive refer to the shoal or danger of the same number listed in the original descriptive report. Numbers over 18 refer to new work

All the coral heads listed were plotted on the boat sheet and investigated in the course of the supplemental work. All references are to the purple (BLUEFISH) launch.

1. Lat 24-42.37 Long 81-37.05

Coral head indicated between 135-6c (Blue). Area investigated and found a coral head with a least depth of  $4\frac{1}{2}$  - 2' (1b) in the near vicinity.

Recommend removal of the sunken rock symbol and the charting of the 2' depth.

2/ Lat 24-41.08 Long 81-36.19

Outlined limits of shoal bank and also of shoal ridge to the SW. See positions 58-9 and 60-1-2d.

3. Lat 24-43.37 Long 81-34.6

Area investigated and found a coral head with a least depth of 2' (2d) and a second head with a least depth of 5' (1d) a short distance to the eastward. Position 2 is close to the sunken rock symbol on the sheet.

Recommend removal of the symbol

4. Lat 24-43.78 Long 81-34.77

Area investigated and found a group of two coral heads on the same line but about 100 meters to the north with 2½' (3d). Ran back and searched in the location of the sunken rock symbol without finding any additional heads. It is probable that the heads found are those noted in 1935.

Recommend removal of the sunken rock symbol.

7. Lat 24-45.2 Long 81-34.93

Area investigated and found a coral head with a least depth of 2½' (97b) lying a short distance to the southward of the symbol on the sheet. It is probable that it is the same head and it is recommended that the symbol be removed from the sheet.

8. Lat 24-46.04 Long 81-33.26

Area investigated and found two heads in the vicinity. One lies a short distance to the south with 4½' (95b) and the other a short distance to the NE with 4½' (94b).

Recommend removal of symbol as boat worked over area in the search.

9. Lat 24-45.35 Long 81-34.77

Area investigated and found a coral head with a least depth of 7' (5d) in the position indicated.

Recommend removal of the sunken rock symbol.

10. Lat 24-46.61 Long 81-32.77

Area investigated and found a coral head with a least depth of 2' (20a) about 80 meters easterly.

Recommend removal of symbol as boat worked over area in which symbol is plotted during the search.

11. Lat 24-46.5 Long 81-33.1

Area investigated and found two coral heads in the immediate vicinity with 5' (18-9d). Several others were found in the general locality as follows---- 4' (16-7d), 4½' (15d), 5' (22d), 6' (14 & 21d), and 7' (20d).

Recommend removal of sunken rock symbol.

12. Lat 24-45.2 Long 81-35.96

Area investigated and found a coral head with a least depth of  $4\frac{1}{2}'$  (25d) in the indicated position. Two other heads were found in the near vicinity as follows---9' (23d) and 10' (24d). Recommend removal symbol.

13. Lat 24-45.92 Long 81-34.76

Area investigated and found a coral head in the indicated locality with 5' (13d). Several other heads were located in the near vicinity as follows---4' (59b), 5' (9'-10d), 6' (11d),  $6\frac{1}{2}'$  (12d),

Recommend removal of sunken rock symbol.

14. Lat 24-44.26 Long 81-35.56

Area investigated and found coral heads in the area indicated. See report for Sheet H-6326 as they are shown on that sheet.

Recommend removal of symbol from this sheet.

To be disposed of when #6326 is reviewed

17. Area west of Johnston Key Channel and north of Sugarloaf Key.

The area was developed on sheet H-6326.

18. Area north and west of Johnston Key.

The area north of Johnston Key west to Long 81-37 was developed on H-6326 and west of Long 81-37 on this sheet. See #29.

19. Lat 24-46.7 to 46.8 Long 81-32.4 to 32.8

The area was developed by splitting the lines. A considerable change was made in the depth curves and a number of coral heads located as follows----. General depths 4-6'.

$2\frac{1}{2}'$ (12 & 18a)	$3\frac{1}{2}'$ (10-11-14-19a)
2' (15-16-20a) see also #10	4' (13a)
3' (17a)	

Change in the curve made in pencil on the sheet.

20. Lat 24-46.6 Long 81-32.95

A coral head with a least depth of  $4\frac{1}{2}'$  (21a) was found.

21. Lat 24-46.2 Long 81-33.2

Area developed. Least depth on sand and shell area found to be 7' (26a). Apparently deepened since 1935.

22. Lat 24-46.2 Long 81-33.9 to 34.0

Area developed. Found several coral heads as follows--  
 $2\frac{1}{2}'$  (91b),  $3\frac{1}{2}'$  (72b), 4' (74b), and  $4\frac{1}{2}'$  (73b).

23. Lat 24-45.9 to 46.2 Long 81-34.1 to 34.7

Area developed and found several coral heads as follows--

## 23. (Continued)

$3\frac{1}{2}'$  (71b) & (68b)  
 $3\frac{1}{2}'$  (67b)  
 $4'$  (59 & 61 b)  
 $4\frac{1}{2}'$  (62 & 65 & 69b)  
 $5'$  (64 & 66b)  
 $5\frac{1}{2}'$  (70b) & (63b)  
 $6\frac{1}{2}'$  (60b)

General depths 6-9'.

24. Lat 24-45.2 Long 81-35.5<sup>4</sup>

Area developed and found a sand shoal with a least depth of 6' (50b). No indication was found of the charted 3' sounding and it is recommended that it be removed. *Old surveys superseded.*

25. Lat 24-44.9 Long 81-35.7

Chart shows 1'. Area developed (37-41b) and found no indication of it. Recommend its removal. *Old surveys superseded.*

26. Lat 24-45.0 Long 81-36.6

Chart shows 15'. Area developed and found a least depth in the vicinity of 19 $\frac{1}{2}$ ' (36b), sand bottom. The 1935 work shows a depth of 18' close by. Area is changeable. Recommend removal of the 15'. *Old surveys superseded.*

27. Lat 24-43.6 to 44.2 Long 81-36.9 to 38.0

Area developed (3-28b). Numerous sand patches with 4-6' were found. Least depths as follows--

$44.0/37.1$  4' (29b) Lat. 24°44.0' Long 81°37.1  
 $43.7/37.3$  3' (30b) Lat. 24°43.7' Long 81°37.3

28. Lat 24-42.7 Long 81-36.8

A coral head with a least depth of 2' (2b) was found. It is close to a bank.

29. Lat 24-43.3 to 44.0 Long 81-36.9 to 38.6

This area is filled with banks and shoals cut up by blind channels which are partially blocked with mud lumps. There is a considerable difference of tide between the outside (gulf) area and the inside area. A strong current sets thru the channels principally on the flood.

The south edge of the banks was outlined on a low tide (1-71c) and the only through channel and some lines on the north side of the keys run (72-104c). The area was further developed and channel lines run (26-57d). The banks were sketched on the smooth and modified to some extent by the photographs.

It is recommended that the banks be outlined on the chart as shown on the ~~best~~ sheet and that the delineation as shown on the topographic maps of the area be disregarded. No field inspection was made to determine the outlines as they apparently appear on the photos and the outlines there should be considered as indications only.

30. Lat 24-44.1 Long 81-34.5

A 5' indication in the vicinity of a charted 3' sounding was investigated. A least depth of 4' (4d) was found on a grassy mud and shell bank. *Old surveys superseded.*

Recommend removal of the 3'.

31. Lat 24-45.7 to 45.9 Long 81-34.9 to 35.0

Several coral heads were found in this area as follows--

7' (6 & 9d) and 8' (7-8d). General depths 9-12'.

#### CHANNELS AND ANCHORAGES

These were taken up in the original descriptive report by Lt Bainbridge. Johnston Key Channel was completed on sheet H-6326. The coral heads referred to under that report have been investigated (#3-Shoals).

#### STATISTICS

Launch BLUEFISH (purple)

Day	Date	Mileage (Statute)	Soundings	Positions	Days Run
a	2- 6-39	1.3	72	26	11.2
b	2- 7-39	7.4	364	97	31.9
c	2-10-39	3.7	254	102	27.6
d	3-10-39	<u>2.0</u>	<u>181</u>	<u>62</u>	<u>21.8</u>
TOTALS		14.4	871	287	92.5

#### MISCELLANEOUS

There are no landmarks of any kind within the limits of the sheet.

Supplemental reports to aids that have been moved since the 1935 season have been filed.

Tidal notes, positions of topographic stations are attached. Positions of hydrographic stations are listed in the first volume (index) of the records for the BLUEFISH.

Respectfully submitted,

*E. R. McCarthy*

E. R. McCarthy  
Chief of Party

Key West, Fla.  
March 13 1939

The additional work on the sheet was confined to the development and investigations necessary to complete the areas in which the hydrography had begun. The remaining areas and the area at the entrance to Johnston Key Channel was- were surveyed on sheet H-6326.

Hydrographic signals were plotted and checked in the field.

Due to the strong currents setting into and out from the main line of keys, there seems to be a constant change in the sand and mud areas south of the 12' curve in the Gulf.

The signals were poor as those badly needed were the ones in the water areas where it was difficult-on account of either the sand or rock bottom- to build them strong enough to remain in place.

Some of the fixes are weak but are probably sufficiently strong for the importance of the area.

All of the sunken rock symbols shown on the smooth sheet were investigated with the idea of removing them from the sheet.

*E. R. McCarthy*

E. R. McCarthy  
Chief of Party



POSITIONS OF TOPOGRAPHIC SIGNALS  
 SCALED FROM TOPOGRAPHIC SHEETS OF AREA (K & KK)

NAME	LATITUDE		LONGITUDE	
	Degrees & Minutes	Sec in meters	Degrees & Minutes	Sec in meters
ALL	24-46 ✓	800 ✓	81-30	1664 (8) ✓
NUB	45 ✓	1068 ✓	31 ✓	520 ✓
WAS	45 ✓	1118 ✓	33 ✓	590 ✓
TANG	45 ✓	273 ✓	34 ✓	528 ✓
BOY	45 ✓	1472 ✓	31	1655 (17) ✓
LUCK	43 ✓	1500 (346) ✓	36 ✓	332 ✓
WIN	43 ✓	616 ✓	34 ✓	1234 ✓
WEL	43 ✓	85 ✓	36 ✓	944 ✓
HALT	24-42 ✓	1376 (470) ✓	81-35 ✓	645 ✓
DRY	24-42 ✓	462 ✓	81-36 ✓	435 ✓

Positions scaled ERM  
 do checked PAW

Positions copy checked ERM

Verification Report.  
# - 5925 (Additional Work).

All matters pertaining to the verification of the 1939 additional work have been considered in the review.

July 27, 1939.

— L. H. Straw

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. *5925 (Add'l Work)*

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

Number of positions on sheet	<i>287</i>
Number of positions checked	<i>10</i>
Number of positions revised	<i>0</i>
Number of soundings recorded	<i>871</i>
Number of soundings revised	<i>0</i>
Number of soundings erroneously spaced	<i>0</i>
Number of signals erroneously plotted or transferred	<i>0</i>

Date: *July 27, 1939.*

Verification by *R. S. Straw* Time: *28 hours.*

Review by *R. S. Straw* Time: *2 hours. July 28, 1939.*

HYDROGRAPHIC SURVEY NO. H-5925(Addl. Wk. 1939)

Smooth Sheet Original One

Boat Sheet Original One

Records; Sounding 2 Vols., Wire Drag     Vols., Bomb     Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals ~~XXXXXXXXXXXXXXXXXXXX~~ In D.R.

Landmarks for Charts (Form 567) Yes

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524)    

Special Chart for Lighthouse Service No.  
(Circular Nov. 30, 1933)

Hydrography: Total Days 4 ; Last Date Mar. 10, 1939

Remarks

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT <del>PHOTOSTAT OF</del>	}	No. H-5925 (Addl. wk. 1939) <del>No. 5925</del>	{ received Mar. 16, 1939 registered Mar. 21, 1939 verified reviewed approved
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This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
24			
25			
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	T. B. Reed
----	------------

✓ JBR

*H.E.* *Lac*

### TIDE NOTE FOR HYDROGRAPHIC SHEET

July 13, 1939

Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. H. R. Edmonston

Plane of reference approved in  
2 volumes of sounding records for

HYDROGRAPHIC SHEET      5925 (Additional work)

Locality Bay Cudjoe Key to Sugarloaf Key, Florida Keys

Chief of Party: E. R. McCarthy in 1939

Plane of reference is mean low water reading

4.1 ft. on tide staff at Key West

8.8 ft. below B. M. 29

1.9 ft. on tide staff at Johnston Key

1.8 ft. below B. M. 1

2.0 ft. on tide staff at Sugarload Channel (Triangulation Station "Easton")

2.9 ft. below B. M. 1

1.7 ft. on tide staff at Bay Cudjoe (Sawyer) Key

4.5 ft. below B. M. 1

Height of mean high water above plane of reference is 1.3 feet at Key West; 1.4 feet at Johnston Key; 2.0 feet at Sugarload Channel (Triangulation Station "Easton"); 3.1 feet at Bay Cudjoe (Sawyer) Key.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

5925

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES  
DEC 24 1935  
No. \_\_\_\_\_

Form 504  
Rev. April 1935  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

~~Topographic~~ }  
Hydrographic } Sheet No. .... 7

Project H. T. 191

State ..... FLORIDA

LOCALITY

FLORIDA KEYS

NORTH OF SUGAR LOAF AND

GUDJOE KEYS

Bay Cudjoe  
Sugar Key to Sugar Loaf Key

193 5 ONE WORD.

CHIEF OF PARTY  
No. 22

W. H. BAINBRIDGE

5925

H-5925  
8 pages.

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET NO. 7

AUTHORITY:

Instructions of the Director dated July 20, 1934.  
Supplemental Instructions dated August 6, 1934.

LIMITS:

The area of the survey is approximately within the square formed by the lines connecting the following points: Lat. 24-44.2/Long. 81-38.5 to Lat. 24-47.3/Long. 81-32.6 to Lat. 24-43.4/Long. 81-29.7 to Lat. 24-40/Long. 81-36 thence to point of beginning. ✓

SURVEY METHODS & EQUIPMENT:

Generally, on the inside waters, the sounding was done from a 6'x 16' flat bottomed barge or punt propelled by outboard motors, with a sounding pole; and in the Gulf of Mexico the regulation lead line was used from a 30 foot launch with inboard motor. ✓

The control was the usual visual control. The signals were located by triangulation or by sextant fixes on triangulation stations. ✓

DISCREPANCIES:

Approximately 30% of the field work had been done on this sheet when the field parties were disbanded on August 2, 1935. ✓

The entire length of the Inside Route covered by this sheet is considered complete. ✓

The crossings of the sounding lines are good and the junction with sheets Nos. 5, 6 and 8 are satisfactory. ✓

H-5924, H-5923 and H-5922

Exact delineation of channels and mud flats to be taken from photo-topographic sheet of this area. ✓



DANGERS:(Rocks, shoals, and obstructions)

Rocks or coral heads listed herein were located by reference to the sounding lines with the intention of re-visiting each place to determine the size and least depth but the disbanding of the party prevented this.

1. Lat. 24-42.37/Long. 81-37.05. Coral head, position 135c, page 72, Vol. 1. ✓ ✓
2. Lat. 24-41.08/Long. 81-36.19. Rock reef about 20 meters in diameter bares 0.2 feet at L.W. Pos. 33d, page 24, Vol. 2. ✓ ✓ ✓
3. Lat. 24-43.47/Long. 81-34.6. Coral head, Pos. 88f, page 69, Vol. 2. ✓ ✓
4. Lat. 24-43.78/Long. 81-34.77. Pos. 92d, Page 70, Vol. 2. Group of coral heads. ✓ ✓
5. Lat. 24-44.05/Long. 81-34.7. Pos. 96 and 97f, Vol. 2. Mud flat in Johnston Key Channel, about 100 meters long and 20 meters wide, lying N.E. and S.W., and bares 0.2 foot at L.W. see H-6326 (1938) ✓ ✓
6. Lat. 24-44.<sup>35</sup>5/Long. 81-34.95. Pos. 84b, Page 46, Vol. 4, marks eastern edge of mud bank in Johnston Key Channel, about 100 meters wide, lying N.W. and S.E., bares less than  $\frac{1}{2}$  foot at low water. see H-6326 (1938) ✓
7. Lat. 24-45.2/Long. 81-34.93. Pos. 32 c, page 55, Vol. 4. Coral head. ✓ ✓
8. Lat. 24-46.04/Long. 81-33.26. Pos. 41c, page 58, Vol. 4. Coral head. ✓ ✓
9. Lat. 24-45.35/Long. 81-34.77. Pos. 66c, Page 63, Vol. 4. Coral head. ✓ ✓
10. Lat. 24-46.61/Long. 81-32.77. Pos. 150c, Page 13, Vol. 5. Coral head. ✓ ✓
11. Lat. 24-46.5/Long. 81-33.1. Pos. 212c, Page 28, Vol. 5. Coral head. ✓ ✓
12. Lat. 24-45.2/Long. 81-35.96. Pos. 29d, Page 45, Vol. 5. Coral head. ✓ ✓
13. Lat. 24-45.92/Long. 81-34.76. Pos. 99d, Page 59, Vol. 5. Coral head. ✓ ✓
14. Lat. 24-44.26/Long. 81-35.56. Pos. 148d, Page 69, Vol. 5. Coral head. ✓ ✓
15. Lat. 24-42.2/Long. 81-36.5. From this point a rocky spit, about 300 meters long and 50 meters wide, extends southeast to a small mangrove covered key. The ridge of this spit bares in places at low water. ✓

DANGERS (CONTINUED):

16. Lat. 24-41.2/Long. 81-35.5. Mud flat of considerable extent, about 800 meters long and 150 meters wide, lying N.W. and S.E. the center of which bares less than  $\frac{1}{2}$  foot at low water. ✓
17. From triangulation station "Sugar" northwestward to hydrographic signal "Wig", the area in which no soundings are shown, is an area of mud flats which are bare or awash at low water. These flats are a series of narrow half moon shaped ridges, the highest parts of which would possibly not give a sounding to exceed 2 feet at M.L.W. The only passage through these banks is the marked Inside Route. lat. 24° 41' 6" long. 81° 33' 3" ✓
18. The area north of Johnston Key and between triangulation stations "Noston" and "Marvy" left undeveloped is a large mud flat out by several small blind channels on the south of no importance. The north or Gulf side of this entire area bares at low water except for possibly one or two small channels. lat. 24° 43' long. 81° 35' ✓

CHANNELS:

1. INSIDE ROUTE: This is a marked route through the keys and mud flats shown at the bottom of the sheet. ✓

This route was considered to be completed, one center line being run according to the beacons, and two or more lines roughly paralleling the center line. ✓

The controlling depth is 2 feet found in several places in the route east of Long. 81-34. 1 1/2 feet between Bn 39 and Bn 41. ✓

Craft drawing 3 feet are about the largest that attempt to use this route taking advantage of the tide. Only fish and sponge boats were seen on this route and then only infrequently. In its present condition it is of little importance. Range of tide 1 1/2 to 2 1/2 ft. ✓

One of the Lighthouse tenders drawing 4 feet uses this route occasionally. ✓

2. JOHNSTON KEY CHANNEL: This is the local name applied to the channel shown in the middle of the sheet connecting the Gulf of Mexico with the Inside Route. The controlling depth is 7 feet on the bar, 8 feet in the widest part of the channel between triangulation stations "Easton" and "Noston". Four feet can be carried up to the Inside Route at Lat. 24-45/43 Long. 81-33.83, at M.L.W. ✓

The channel is not marked and the entrance from the Gulf is hard to see and follow except at low tide. ✓

CHANNELS (CONTINUED):2. JOHNSTON KEY CHANNEL (CONTINUED):

The only obstructions are two small middle ground banks which can be seen at low tide and the patch of rocks or coral heads about 400 meters southeast of triangulation station "Noston". The obstructions are described under "Dangers".

This channel was not fully developed because of the discontinuation of the project.

ANCHORAGES:

Johnston Key Channel described above is an excellent anchorage for small craft except in severe blows, being fairly well protected by keys and extensive shoals.

COMPARISONS WITH PREVIOUS SURVEYS:

What work that has been done on this sheet compares favorably with Chart No. 1251, except that no indications were found of the following spots:

1. 15' spot at Lat. 24-45.0/Long. 81-36.55
2. 1' spot at Lat. 24-44.85/Long. 81-35.7
3. 1' spot at Lat. 24-45.6/Long. 81-32.55 (1<sup>1</sup>/<sub>2</sub> on H-2006)

See Review par. 7. ✓

Six feet was found 100 meters east of the 5 foot spot in Johnston Key Channel. The current may have scoured this spot away as the bottom is mud in this vicinity.

An indication and only one foot more was found on the 5 foot shoal extending southwest from Lat. 24-46.07/Long. 81-34.6.

The crossing of Johnston Key Channel and Long. 81-35 has shifted northward with a clear depth of 7 feet instead of the 4 feet as shown on Chart No. 1251.

See Review par 10 ✓

The depth curves in the Gulf remain relatively the same. ✓

GEOGRAPHIC NAMES:

1. INSIDE ROUTE: The marked route appearing on the south edge of the sheet. ✓
2. JOHNSTON KEY CHANNEL: The local name applied to the deeper water in the area extending northwestward to the Gulf of Mexico from triangulation station "Easton". ✓
3. SAWYER KEY on which the triangulation station by the same name is located is called by all fishermen; interrogated; "Bayway Cudjoe" or "Bay Cudjoe". ✓

GEOGRAPHIC NAMES (CONTINUED):

4. RIDING KEY: is the name applied to the key southeast of Sawyer Key. Triangulation station "Saw" is located on Riding Key.
5. MICHAEL KEY: on which the triangulation station of the same name is located is widely known as "Tarpon Belly Key".

Many of the fishermen cannot read a chart, hence the printed name means nothing and the names these men have given the keys appear to be generally accepted.

6. *The string of small keys between Marvin Key and the western end of Johnston Key is called the Barnacuda Keys by local fishermen and*  
LANDMARKS: "Spongers:"

There are no landmarks on this sheet other than the natural topographic features.

Aids to Navigation are listed on the Report on form 567 dated October 23, 1935.

TIDAL NOTE:

The tidal control was furnished by portable tide gauges at stations:

Johnston Key	Lat. 24- <del>39.6</del> <sup>42.65</sup> /Long. 81-35.67
Key West Std.	" 24-33.2/Long. 81-48.5
Michael Key	" 24-43.7/Long. 81-31.23
Ruff	" 24-42.1/Long. 81-31.6
Sawyer	" 24-45.6/Long. 81-33.73

The zoning for time and range was accomplished by comparisons of the above gauges with gauges at the following stations:

Cald Channel Lt. #1	Lat. 24-37.8/Long. 81-49.6
Pirate	" 24-39.75 " 81-30.75
Wall Key	" 24-38.8/Long. 81-39.25

The zones are indicated on the boat sheet in purple ink, each with its gauge, time, and range.

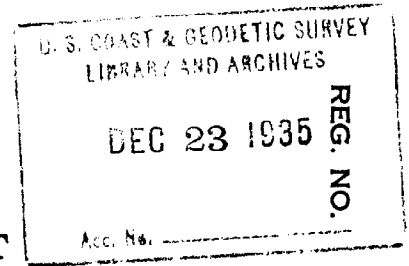
The gauge, time, and range for each zone is shown in the index of each sounding record.

STATISTICS:

BOAT	STATUTE MILES OF SOUNDING LINES	NUMBER OF SOUNDINGS	NUMBER OF POSITIONS	NUMBER OF DAYS	SQUARE MILES (STATUTE)
Launch	134.1	5205	758	6	
Barge	95.3	4400	636	7	
TOTALS	229.4	9605	1394	13	23

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.

Field No. 7 **H5925**

REGISTER NO.

State FLORIDA

General locality FLORIDA KEYS //

Bay Cudjoe Sawyer Key to Sugar Loaf Key //  
Locality NORTH OF SUGAR LOAF & CUDJOE KEYS

Scale 1:10,000 Date of survey JULY 16 - AUG. 2, 19 35

Vessel PARTY NO. 22

Chief of Party W.H. BAINBRIDGE

Surveyed by FRANK HOUSTON

Protracted by W.H. FUNDERBURKE & L.G. KING

Soundings penciled by L.G. KING

Soundings in ~~fathoms~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by

Inked by C.F. McKenney

Verified by W.R. Jackson

Instructions dated July 20, 1934, Supp. Aug. 6, 19 34

Remarks:

Report written by Frank Houston, Surveyor, revised and respectfully submitted:

*Dec. 19, 1935*

*W. H. Bainbridge*  
W. H. BAINBRIDGE,  
Chief of Party.

*The name and maker of smudged sheet paper not known.*

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H5925**

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

Number of positions on sheet	..1377
Number of positions checked	...23
Number of positions revised	....!!
Number of soundings recorded	..9605
Number of soundings revised	...85
Number of signals erroneously plotted or transferred	.....

Date:

Inked by *C.F. Mckeeney*

Time: 30½ hrs.

Verification by *W.R. Jackson*

Time: 49½ "

Review by *R.J. Christman (1935 work)*

Time: 10 ½ "

Notes in pencil should be inserted only after  
checking with the air photo compilations.



RFL

Disposed of by - J. W. Giberman  
6/24/38



Report on H-5925.

1. The records are satisfactory. ✓
2. Shore line is to be taken from photo-comp. which has not been finished as yet. ✓  
I-5548  
T-5547  
Shore line applied.  
6/29/37.
3. The soundings on cross lines agree. ✓
4. The usual depth curves were completely drawn except (1) the low water line in a few places and (2) where the hydro was unfinished. ✓
5. There are no floating aids to navigation. ✓  
The many beacons on this sheet were carefully checked, but they should be further checked by the photo-Compilation. Not shown from air photos.
6. The junction with H-5924 and H-5923 was satisfactory. ✓  
The junction with H-5922 is a bit uncertain due to lack of shore line. Satisfactory
7. The field plotting and especially the pencil soundings seemed to have been done by an inexperienced man or else done carelessly. ✓
8. Attention is called to the notes, many of which were put on the sheet by the field party. ✓  
The shore line and low water line in places dashed was put on the sheet from notes in the Sounding Records.

1/12/37.

Respectfully submitted,  
William R. Jackson

Checked by J. W. Johnson 1/12/37

HYDROGRAPHIC SURVEY NO. H5925

Smooth Sheet yes

Boat Sheet 1

Sounding Records 6 Vols. \_\_\_\_\_

Descriptive Report yes

Title Sheet yes

List of Signals yes, Vol 1

Landmarks for Charts (Form 567) yes

Statistics yes

Approved by Chief of Party no

Recoverable Station Cards (Form 524) none

Special Chart for Lighthouse Service no  
(Circular Nov. 30, 1933)

Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# MEMORANDUM

## IMMEDIATE ATTENTION

~~SURVEY~~  
 DESCRIPTIVE REPORT } No. H 5925  
~~PHOTOSTAT OF~~ } ~~No. H~~

{ received December 23, 1935  
 { registered Jan. 2, 1936  
 { verified  
 { reviewed  
 { approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
24			
25	✓	<i>SKL</i>	<i>D.R. page 3, "Channels"</i>
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	
----	--

*e KG 1/4-36*

Remarks

Decisions

1		
2		
3		
4	<del>changed</del> per T-5547 see below: Delete Sawyer Key	
5	off limits this sheet.	
6		
7		
8	"Sawyer Key" on chart 1257 covered	
9		these keys. See p. 4-5 this report, also T-5547
10	T-5545	
11	T-5545	
12	T-5545: not recommended for charting	
13		
14	T-5545	
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
M 234		

GEOGRAPHIC NAMES

Hydrographic Survey No. H5925

Name on Survey	Sources										K
	A	B	C	D	E	F	G	H	I	J	
	On Chart No.	On previous survey No. T-55-47	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List			
Johnston Key Channel ✓	1251										1
JOHNSTON KEY ✓	1251										2
DUGARLOFF KEY ✓	1251										3
<del>DUPLICATE KEY</del> ✓	1251	Names approved Jan. 13 1936									4
SNIPE KEYS ✓	1251										5
											6
											7
Bay Cudjoe Key ✓		✓									8
Riding Key ✓		✓									9
Happy Jack Key											10
Galdin Key											11
Pig Key											12
Johnston Key Mangrove ✓		✓									13
Happy Jack Mangrove											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27

With 1 deletion and 6 additional names, above is in accord with CMS.   
 Frank July 9, 1938.

200

TIDE NOTE FOR HYDROGRAPHIC SHEET

March 26, 1936.

Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. E. P. Ellis

Tide Reducers are approved in  
6 volumes of sounding records for

HYDROGRAPHIC SHEET 5925

Bay Cudjoe  
Locality ~~Sawyer Key~~ to Sugar Loaf Key, Florida Keys

Chief of Party: W. H. Bainbridge in 1935  
Plane of reference is mean low water reading

- 1.3 ft. on tide staff at ~~Sawyer Key~~ Bay Cudjoe Key
- 4.5 ft. below B.M. 1
- 2.0 ft. on tide staff at Michael Key
- 3.7 ft. below B.M. 1
- 1.9 ft. on tide staff at Ruff
- 3.4 ft. below B.M. 1
- 2.4 ft. on tide staff at Johnston Key
- 2.0 ft. below B.M. 1
- 4.3 ft. on tide staff at Key West
- 8.8 ft. below B.M. 29

Height of mean high water above plane of reference is 3.1 feet at Sawyer Key; 2.3 feet at Michael Key and Ruff; 1.4 feet at Johnston Key and 1.3 feet at Key West.

Condition of records satisfactory except as noted below:

*Ham*  
Chief, Division of Tides and Currents.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5925 (1935) FIELD NO. 7

Bay Cudjoe Key to Sugarloaf Key, Florida Keys, Florida

Surveyed in July - August 1935, Scale 1:10,000

Instructions dated July 20, 1934 and August 6, 1934

(W. H. Bainbridge).

Hand Lead and Pole Soundings.

3 Point fixes on shore signals.

Chief of Party - W. H. Bainbridge.

Surveyed by - Frank Houston.

Protracted by - W. H. Funderburke, L. G. King.

Soundings penciled by - L. G. King.

Verified and inked by - C. F. McKenney, W. R. Jackson.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual except that descriptive notes were omitted for several signals located in the water areas. They are assumed to be of a temporary nature and of no importance in charting.

The Descriptive Report is comprehensive and satisfactorily covers all items of importance.

2. Compliance with Instructions for the Project.

The plan and character of the survey are in accordance with the instructions for the project. However, only about 30% of the work planned for this sheet had been done when the field parties were disbanded. The boat sheet has been returned to the field for additional work.

3. Shoreline and Signals.

The shoreline and outline of reefs and shoal areas originate with 1935 topographic maps T-5545 and T-5547.

The signals are triangulation stations and hydrographic signals located by sextant fixes recorded in the sounding volumes. See Vol. 1, page 1 for index of cuts.

4. Sounding Line Crossings.

The sounding lines cross satisfactorily, the depths being in good agreement.

5. Depth Curves.

Within the area covered the usual depth curves can be satisfactorily drawn.

6. Junction with Contemporary Surveys.

The junction of the completed area of the present survey with H-5922 (1935), H-5923 (1935), and H-5924 (1935) to the south and west is satisfactory.

7. Comparison with Prior Surveys.

H-1828 (1888-9), H-2006 (1890).

These two surveys are on scales of 1:40,000. A general comparison shows a good agreement with the present survey although there are differences in depths of 1/2 to 1-1/2 feet deeper or shoaler in some places. A listing of the differences, which are principally due to the closer development on the present survey, would serve no useful cartographic purpose. The three spots listed under "Comparison with Prior Surveys" in the Descriptive Report, page 4, are not isolated spots but areas in which a general change seems to have taken place, present depths being about 2 feet deeper. Because of the larger scale and closer development of the present survey H-5925 (1935) should supersede the above surveys for charting the area covered by it.

8. Comparison with Chart 1251 (New Print dated April 21, 1936)

a. Hydrography.

Within the area covered by the present survey the chart is based on surveys discussed in the foregoing paragraph and contains no other information that needs consideration in this review.

b. Aids to Navigation.

The beacons in this area were located by triangulation and by sextant fixes recorded in the back of Vol. 6 of the sounding records. The charted positions are in agreement with the locations given on the present survey, having been charted from advance information in Chart Letter 944 of 1935. The beacons satisfactorily mark the features intended.

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

9. Field Plotting.

The field plotting was fair though it showed evidence of inexperience in this kind of work.

10. Additional Field Work Recommended.

The areas partly surveyed but needing additional development are the following:



- a. The channel or channels across the flats west of Johnson Key should be developed (Item 18 Descriptive Report, page 3). \*
- b. Johnson Key Channel should have further development, especially the area northward of lat. 24° 44'. \*
- c. The shoal area centering around lat. 24° 46.0', long. 81° 34.4'. *covered by split lines of additional work.*
- d. The channel between Beacon 39 and Beacon 41. See Descriptive Report, page 3 "Channels". \*

11. Superseded Old Surveys.

Within the area covered the present survey supersedes the following surveys for charting purposes:

H-1828 (1888-89) in part  
H-2006 (1890) " "

12. Reviewed by - R. J. Christman, Jan. 14, 1937.

Inspected by - J. A. McCormick.

Examined and approved:

*T. B. Reed*

T. B. Reed,  
Chief, Section of Field Records.

*K.T. Adams*

Chief, Division of Charts.

*Fred. L. Peacock*  
Chief, Section of Field Work.

*G. H. Hude*  
Chief, Division of H. & T.

\* Covered by H-6326 (1938)

*To be sent around for  
signature after receipt of completed  
work.*

Section of Field Records

REVIEW OF 1939 ADDITIONAL WORK ON HYDROGRAPHIC SURVEY  
No. 5925 (1935), FIELD NO. 7

Bay Cudjoe Key to Sugarloaf Key, Florida Keys, Florida.  
Surveyed in February - March 1939, Scale 1:10,000  
Instructions dated July 20, 1934 and Aug. 6, 1934  
(W. H. Bainbridge).

Hand Lead and Pole Soundings.      3 Point fixes on shore signals.

Chief of Party - E. R. McCarthy.  
Surveyed by - E. R. McCarthy and P. A. Weber.  
Protracted by - E. R. McCarthy.  
Soundings plotted by - E. R. McCarthy.  
Verified and inked by - L. S. Straw.

1. Purpose.

The purpose of this additional work was to investigate the shoals and dangers which were not developed or investigated because of insufficient funds to complete the 1935 field work.

2. Results.

- a. The shoals and dangers listed by the field in the original descriptive report (1935 work) were all investigated with the result that a number of additional coral heads were found.
- b. Areas requiring additional development listed under paragraph 10 of the review of the original work, were surveyed on H-6326 (1938-39) and by running split lines on the 1935 work.
- c. The junction with the 1935 work including the 1939 additional work, with H-6326 (1938-39) will be considered in the review of that survey.
- d. The agreement of the additional work with the 1935 work is satisfactory. The additional work is identified by use of purple position numbers.

3. Reviewed by - Leo S. Straw, July 28, 1939.

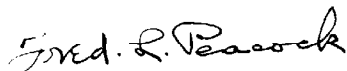
Inspected by - H. R. Edmonston, July 29, 1939.

Examined and approved:

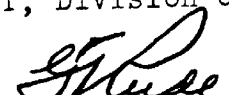


T. B. Reed,  
Chief, Section of Field Records.

K. T. Adams  
Chief, Division of Charts.



Fred. R. Peacock  
Chief, Section of Field Work.



G. H. Hulse  
Chief, Division of H. & T.

25 / Jan 4/35  
E.M.P. - H.A.C.

Applied to Chart 1251 - Dec. 1938 - J.P.P.

Additional Work applied to Chart 1251, 2-5-40, K.P.P.

Examined for 1251 P.H.A. 2/7/52 Aug 1952

Applied to Chart 854 - J.P.W. 5/24/56

Applied to Chart 859 - J.P.W. 11/6/58

Applied to Chart 854 J.P.W. 1/22/64