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DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
R. S. PATTON, DIRECTOR

**DESCRIPTIVE REPORT**

*Topographic* } Sheet No. 20  
*Hydrographic* }

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State FLORIDA

LOCALITY  
FLORIDA KEYS

BAHIA HONDA CHANNEL TO ~~THE~~ SPANISH  
CHANNEL

---

1936

CHIEF OF PARTY  
E. R. MCCARTHY

1152  
12312

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

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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. 20

REGISTER NO. H6153

State FLORIDA

General locality FLORIDA KEYS

Locality BAHIA HONDA CHANNEL TO ~~THE~~ SPANISH CHANNEL ✓

Scale 1:20000 Date of survey July-Sept, 1936

Vessel Shore Party #14

Chief of Party E. R. McCarthy

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

Protracted by P. A. Weber

Soundings penciled by P. A. Weber

Soundings in ~~fathoms~~ feet

Plane of reference Mean Low Water

Subdivision of wire dragged areas by ---

Inked by C. F. McKenney

Verified by G. H. Everett

Instructions dated November 17 1933 (H. A. Cotton) 19

Remarks: \_\_\_\_\_

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET NUMBER 20.

AUTHORITY

Instructions of Director dated November 17 1933 (H A Cotton) ✓

LIMITS

From Bahi a Honda Channel westward to Big Spanish Channel and from Latitude 25-51 southward to an irregular line between Latitudes 25-45 and 25-47 . ✓

METHODS

Soundings were taken with a phosphor bronze centered lead line graduated in fathoms and feet in depths over 12' and with a 15' sounding pole graduated in feet and half feet for depths under 12'. Soundings taken with the lead line were called out in feet by B. Sanders and in fathoms and feet by the other leadsmen. ✓

Position was fixed on triangulation and topographic signals by sextant angles. ✓

A line of signals approximately parallel to the north points of the keys was established and located by sextant angles. ✓

EQUIPMENT

Two 30 foot leased launches drawing about 2'. ✓

COMPARISON WITH PREVIOUS SURVEYS

The sheet was compared with Sheet # 1827 (1888) and it is noted that the areas have deepened somewhat and also that the depth curves show a considerable change. Due to the closer development of the present survey the banks and shoals are better outlined. ✓

Some of the depth changes are probably due to better tidal observations. The tide values change rapidly from the banks along the edge of the Gulf to the north line of the keys. ✓

Practically all of the shoals and banks shown on Sheet #1827 were found. They differ slightly in position and considerably in outline. ✓

COMPARISON WITH CHART 1251

Apparently the 1888 survey was the source of the present edition of this chart and the above comparison will apply. ✓

This area  
charted from  
H-1827 (1888)  
and H-426 (1889)

DISCREPANCIES

The lines cross well except as noted.

1. The crossings listed below are probably due to irregular bottom

Lat 24-46.6/Long 81-19.0 ✓  
 Pos 1-2x 8 $\frac{1}{2}$ ' --- Pos 8-9k 10'  
 Lat 24-49.2/Long 81-15.5 to Lat 24-51.0/Long 81-16.3 ✓  
*L. Depth* The cross line passes over a very irregular  
*inked* area and there are several differences of 1-2'  
*in all* Lat 24-47.3/Long 81-17.4 ✓  
*cases* Pos 184-5h 8' --- Pos 73-4l 10! Probably a trough ✓  
 Lat 24-47.0/Long 81-14.4 ✓  
 Pos 17-8g 6' --- Pos 196-7k 4 $\frac{1}{2}$ ' edge of shoal ✓  
 Lat 24-50.3/Long 81-14.6 ✓  
 Pos 95-6s 6 $\frac{1}{2}$ ' --- Pos 98-9r 5' edge of shoal ✓  
 Lat 24-49.3/Long 81-14.2 ✓  
 Pos 99-100s 5' --- Pos 41-2n 7' edge of shoal ✓

2. A slight shift in the line would make the following crossings good.

Lat 24-49.0/81-14.1  
 Pos 100-1s 7' --- Pos 35-6n 10' ✓  
 Lat 24-49.5/81-19.3  
 Pos 28-9w 11' --- Pos 195-6y 13' *not remedied by a shift ✓*  
*diff. probably* Lat 24-49.3/81-18.8 *13 ft chan. missed on 28-9 w*  
*due to* Pos 197-8y 9' --- 134-5y 12' ✓  
*tide rather* Lat 24-48.0/81-20.5  
*than control.* Pos 79-80z 7' --- 220-1x 5 $\frac{1}{2}$ ' *79-80z appears too deep ✓*  
*etc* *for locality.*

3. Lat 24-47.6/Long 81-18.3

Pos 86-7n 6 $\frac{1}{2}$ ' --- Pos 7-8v 5'. Both days are recorded in the record as squally and with a heavy chop. It may be that the soundings were taken in the trough and in the top of the chop or that the tide reducers—due to the heavy winds—were computed in error. Recommend that the 5' sounding be accepted. ✓

4. Lat 24-46.0/Long 81-21.3

Pos 1-2p 6 $\frac{1}{2}$ ' --- Pos 58-9f 7-8'. Both days the sea was smooth. The bottom is probably slightly irregular. ✓

JUNCTIONS WITH CURRENT SURVEYS

The survey joins Sheet #17 (1935-6) on the south. The soundings agree quite closely. H-6137

GENERAL DESCRIPTION OF AREA

The area, in general, is irregular. The edge of the Gulf of Mexico is sharply outlined by a series of shoal banks and a number of channels cut thru the sheet, in a Northwest-Southeast direction. Extensive flat banks and shoal areas lie between the Gulf and the keys. ✓

SHOALS AND DANGERS

1. Lat 24-46.8 to 50.5/ Long 81-12.0 to 15.0 ✓

This channel is called locally-Bahia Honda Channel. The shape and depths show great change from Sheet 1827. The six foot curve south of Lat 24-49 is considerably different than shown on the sheet (1827) The depths are, in general, 2'-3' greater than those charted except that the depths north of Lat 24-49 check or are within a foot. ✓

This discrepancy in depths applies over the whole area of the sheet and it was found that the depths near the Gulf check, as a rule, closer than those in the section south of the Gulf Banks into the keys. The only logical explanation of the discrepancies is the tide values used in the 1888 work. ✓

2. Lat 24-<sup>4</sup>38.5/ 81-13.3

A very small uncharted ridge was found with a least depth of 1' (118-9~~2~~ gn). It probably bares at extreme L.W. *dashed line on sheet* ✓

3. Lat 24-46.9/ Long 81-14.0 *see very report*

A ridge extending to the NW of East Bahia Honda Key was found with a least depth of 1' (132-4d gn). It is not on the present chart. ✓ *Sdg Vol. II states L.D. Off on sheet.*

Note- Practically all the banks with depths of 1' or less at MLW will bare at extreme low water. ✓

4. Lat 24-49.1/ Long 81-14.2 *see very report*

The chart shows a bank bare at L. W. here. The area was examined and the shoalest and most definite section outlined by positions 109-14~~4~~ gn. It bares in spots at MLW. The eastern edge is sharp and definite and the western edge indefinite. ✓ *SECTION of HORSESHOE BANK*

5. Lat 24-50.0/ 81-14.9

Two mud lumps (uncharted) were found just inside the 6' curve. Least depths are 2 $\frac{1}{2}$ ' (99-100r and 86-7q gn). They were not investigated or developed as the area was irregular and they lie near the edges of a shoal bank. ✓

6. Lat 24-45.8/ Long 81-15.2 to Lat 24-46.8/ Long 81-16.0 ✓

A ridge with general depths of 3-5' connects Hardup Key with West Bahia Honda Key. See also Shoal #29-Sheet #1617 ✓

SHOALS AND DANGERS (CONT'D)

7. Lat 24-47.3/Long 81-14.7 to Lat 24-49.5/ Long 81-16.0

A shoal bank with general depths of 2'-3' was found here which bank is charted altho the general depths charted are about one foot less than shown on the survey. ✓

The chart shows an isolated shoal bare at low water near the north end of the bank. The development indicates that the least depths over this particular section are 1.01'. ✓

Two small ridges were found on the south section of the bank; the SE'yly of these is located in Lat 24-47.7/ Long 81-14.9, positions 132-47 gn, and has a least depth of 1'; the NW'yly is located in Lat 24-47.9/ Long 81-15.4, positions 42-3r gn, and bares at MLW. The air photos show this latter ridge to be in two sections and it was so sketched on the smooth sheet. ✓

A hole was found in Lat 24-48.9/ Long 81-15.8. The greatest depth was 9' in general depths of 1-2'. The limits were modified from the boat sheet to agree with the air-photos. ✓

8. Lat 24-<sup>41.3</sup>50.2 to <sup>0</sup>51.2/ Long 81-<sup>14</sup>14.7 to 16.2  
*see map sheet*

A large bank with general depths of 2-3' and of about the size of the charted bank was developed. The northern edge was definite and was outlined (96n and 79-88v gn) by the boat and checked on the sheet by the air-photos. Shoalest section of the bank is the north and northeast where it bares in spots at MLW. ✓

SECTION  
OF  
HORSESHOE  
BANK

9. Lat 24-49.7/ Long 81-15.9

Chart shows a mid-channel bank with least depth of 3'. Area developed and found a spur from the bank to the SE with general depths of 4'-5' and a least depth on its north section upon development- of 3' (90v gn) ✓

Note- The channel in this vicinity shows greater depths than those charted. Its eastern edge is sharply defined by a very shoal bank. ✓

10. Lat 24-50.9/ Long 81-15.5

Chart shows 1' here. Survey shows an isolated bank with a least depth of  $\frac{1}{2}$ ' (72-8 v gn). Sheet 1827 also shows the bank as isolated. ✓ *sheet*

SHOALS AND DANGERS (CONT'D)

11. Lat 24-45.8/ Long 81-16.8

A ridge connects Sandfly Key with Horseshoe Key. General depths are 2'-3'. ✓

12. Lat 24-49.4/ Long 81-16.6

There is no indication of the charted 2' sand here. Least depth in vicinity is 5'. Bottom is mud. ✓

13. Lat 24-47.5 to 48.0/ 81-17.3 to 17.8

Chart shows a narrow rocky ridge. Survey indicates a long ridge with from 1'-3' on it extending for about 2 miles NW'ly from West Bahia Honda Key. The shoalest depths on the ridge are on the SE point of the charted ridge and the NW point of the present indicated limits.. Bottom is rocky and slightly irregular. ✓

14. Lat 24-48.0 to 50.3/ Long 81-16.5 to 19.2

This extensive bank does not differ greatly from its charted outline. The depths are  $\frac{1}{2}$ -1' greater. ✓

General depths over the bank are 1'-2', it bares in spots at MLW, and probably bares inside of the one foot surge at extreme low water. ✓

A trough lies in the central SE section. It has depths of from 3'-12' and is sharply defined on the air-photos. ✓

The north point of the bank projects in a sort of a finger to a point about  $\frac{1}{2}$  mile beyond the general limits of the bank and has a depth of 1' on its shoalest section. ✓

Local fishermen call the bank <sup>JACK</sup> 'Dick-Skinner Bank'. ✓

15. Lat 24-46.8/ Long 18.3 to 18.8

Three uncharted ridges were located here. They lie off the NW point of the westerly of the Horseshoe Keys in general depths of 2'-3'. Least depths are:  $\frac{1}{2}$ ' (151 gn) on the SE'ly, bare  $\frac{1}{2}$ ' MLW (15-71 gn) on the central, and bare at MLW (2-3v gn) on the NW'ly. ✓

16. Lat 24-49.1/Long 81-18.6

A number of fish net racks were located here (53-9 t gn).. These racks and stakes were placed by the fishing fleet in the winter of 1935-6 as the fishing boats based out of Dick Skinner Channel. ✓

SHOALS AND DANGERS (CONT'D)

## 16. (Cont'd)

The racks are temporary structures poorly and lightly built out of any kind of material available—mostly rough logs. As the fleet now bases on Key Vaccas, it is doubtful if these racks will be maintained and it is recommended that they be charted as pilings or stakes. *shown on sheet as Fish stakes*

## 17. Lat 24-49.7/ Long 81-18.9

Two small uncharted banks were found. Both have least depths of  $\frac{1}{2}$ ' and are outlined on the smooth sheet (42-5lv gn) *on sheet*. A row of piling lies on the SW side of the W'ly bank which piling present a danger to navigation as while most of them are 4-5' above HW—some are covered at MLW. *Called Fish Stakes in Sdg Vol. & B.S.*

Both banks lie on the east side of Dick Skinner Channel and on the west section of Dick Skinner Bank. *JACK*

## 18. Banks around the Johnson Keys.

The range of the tide was such that the limits of the low water line around the keys could not be economically run in. A border line was run around the north key and a single line between the two keys. The approximate low water line was sketched on the boat sheet and the line modified somewhat on the smooth sheet because of the indications of the air-photos.

## 19. Lat 24-50.8/Long 81-18.2

A small shoal with a least depth *shown by 6 ft curve*—upon development—of  $6\frac{1}{2}$ ' (104-5y and 55-6z gn) was found. General depths 7-9'.

## 20. Lat 24-46.3/ Long 81-19.8

Two coral heads were found (Uncharted). The NE'ly bares at MLW (1j gn) and the SW'ly is covered  $\frac{1}{2}$ ' at MLW (1v gn). *shown as awash MLW*

## 21. Lat 24-46.3 / Long 81-19.2

Chart shows a small bank bare at MLW. Survey shows an area with irregular rocky bottom with a least depth in the vicinity of 2'.

## 22. Lat 24-48.7/ Long 81-19.0

Chart shows 1'. Survey shows a small oval bank bare at low water (44-7 t gn)



SHOALS AND DANGERS (CONT'D)

<sup>48</sup>  
23. Lat 24-~~49~~.8 / Long 81-19.2

A small 's' shaped bank was found here. (not charted).  
It bares at MLW (40-3t gn) ✓

<sup>49</sup>  
24. Lat 24-~~50~~.0 / Long 81-19.2

A small uncharted ridge was found. It bares at MLW (31-3v gn) ✓

<sup>49.2</sup>  
25. Lat 24-~~50~~.2 / Long 81-19.2

A long bank (uncharted) bare in spots at MLW was found  
(23-30v gn). A narrow gap separates it from Shoal #23 above. ✓

<sup>49.4</sup>  
26. Lat 24-~~50~~.4 / Long 81-19.2

An uncharted oval shaped bank bare at low water was found  
(18-22v gn). X-line shows  $\frac{1}{2}$  ft on this shoal. Probably  
bares only in spots MLW. ✓

27. Lat 24-46.1 / Long 81-20.2

Two isolated coral heads were found here. Least depths  
are  $\frac{1}{2}$ ' (55s gn) on NE ly, and  $\frac{1}{2}$ ' (45h gn) on SW ly.  
around MLW ✓

28. Lat 24-46.3 / Long 81-20.3

Chart shows a small bank bare at MLW. Survey shows area  
to be on a bank extending northerly from the Johnson Keys which  
bank has general depths of ~~2-3'~~ (2-3') L.D. 1 ft. ✓

<sup>4</sup>  
29. Lat 24-~~46~~;6 / Long 81-20.4

A group of uncharted coral heads was found in this vic-  
inity. Least depths are: 1' (1q gn),  $2\frac{1}{2}$ ' (2q gn),  $\frac{1}{2}$ ' (3-4q gn),  
 $\frac{1}{2}$ ' (6y). around MLW ✓

30. Lat 24-45.2 / Long 81-20.6

Chart shows a long bank bare at low water. Survey shows  
a shoal bank extending N'ly from two small mangrove keys which  
bank bares in spots at MLW and probably bares completely at  
extreme low water needs top sheet to determine this. ✓

31 Lat 24-46.9 / Long 81-21.0

A small bank was found here on the approximate location  
of a  $\frac{1}{2}$ ' sand on sheet 1827. It bares at MLW (26-7n red). ✓

SHOALS AND DANGERS (CONT'D)

32. Lat 24-47.5/ Long 81-20.7 ✓

A ridge with a least depth of  $2\frac{1}{2}$ ' (44-55p red) was found on the NE edge of a deep channel. It was not on the present chart. ✓

33. Lat 24-48.2 to 49.0/ Long 81-20 .0 to 20.5<sup>4</sup> ✓

Two shoal banks in general depths of 4' with least depths of  $2\frac{1}{2}$ ' on the S'ly and 3' on the N'ly were found. They were not developed. Bottom slightly irregular. ✓

34. Lat 24-48.9/ Long 81-20.9

Chart shows a bank bare at low water. Survey shows two a smaller bank bare at low water. (85-8n red) ✓

35. Lat 24-50.8/ 81-20.6 to 21.2 Bullfrog Banks

Chart shows 1' here. Survey shows <sup>see surf. Report</sup> two separated banks with least depths of  $\frac{1}{2}$ ' (111-6p & 119-24p red) on their respective eastern edges with a slope to 2' on the western edges. A piling baring 1' at MLW lies on the north point of the east bank and a lighted beacon on the NE point of the same bank. ✓

Local fishermen refer to the locality as 'Bullfrog Banks' and call them individually 'East and West Bullfrog Banks'. ✓

36. Lat 24-50.0/ Long 81-20.0

Two sndgs- one of 22' and one of 6'-were taken here. From general appearances, it would seem that the 22' sndg was a called out one fathom in error (too deep) but as there are small pot holes in the channel and as the sounding was OKed in the record, it is very probably correct. The 6' foot sndg falls within the 6' curve on the boat sheet so hence was not investigated. The channel rises steeply to the bank and both are probably correct. General depths 7'. ✓

36A. Lat 24-45.7/ Long 81-20.3

An uncharted coral head was located here. Depth on it is  $2\frac{1}{2}$ ' (47s gn). General depths  $6\frac{1}{2}$ -7'. A SECOND WAS FOUND IN LAT 24-46.1/81-20.6 (1P gn) DEPTH  $2\frac{1}{2}$ ' ✓

37. Lat 24-45.5/ Long 81-21.2

A large bank on the northwest <sup>east</sup> side of Crawl Key has general depths of 1-2' over it and bares in spots at <sup>charts L.W.</sup> MLW. It is indicated on the present chart. -45.8 ; -21.8<sup>5'</sup> ✓

SHOALS AND DANGERS (CONT'D)

38. Lat 24-45.8 / 81-21.8

A large isolated bank between Crawl and Little Spanish Keys has general depths of 1-2' on it. It is indicated on the present chart. *L.O. 1/2 ft.*

39. Lat 24-46.2/ Long 81-22.0

A ridge projecting out from the east side of Little Spanish Key has a depth of  $\frac{1}{2}$ ' on it. (Not on present chart) *76-7a' ju*

40. Lat 24-47.4 / Long 81-21.2

The chart shows a bank bare at MLW. Survey shows the bank to be of much smaller extent and to bare at MLW (28-31n red). This bank is indicated on sheet 1827.

41. Lat 24-47.3/ Long 81-21.5

A small circular bank ~~bare~~ <sup>*1/2 ft. MLW Vol. 21*</sup> at low water was found (43n red) It lies on the SE point of the charted shoal area.

42. Lat 24-47.5/ 81-21.8

An uncharted ridge of three small sections was found. The sections are separated by channels of deep water. Least depths are 2' on E'ly,  $\frac{1}{2}$ ' on central, and 3' on W'ly (39-42 n red).

43. Lat 24-47.9/ Long 81-21.5

An uncharted bank bare at MLW was found (32-5n red).

44. Lat 24-<sup>4</sup>7.9/ Long 81-21.7

Two small isolated banks, the W'ly of which appears on sheet 1827, were found. Least depths are  $\frac{1}{2}$ ' (36n red) and bare at low water (37-8n red).

45. Lat 24-48.4/ Long 81-21.5

A mud bank (uncharted) with a depth of 5' obtained on a sounding line is located here. It was not investigated thru an oversight and there is probably less water. As the bank does not show clearly on the air-photos it is very probable that the least depth is over 3'.

Not considered  
as warranting  
additional field  
investigation. Falls  
in open area on  
H-1827.

46. Lat Lat 24-48.8/ Long 81-21.2

A bank bare at MLW was located here (89-92n red). It is indicated on sheet 1827.

SHOALS AND DANGERS (CONT'D)

Note- the general depths in this area are 1-2' greater than charted. The 6' charted soundings in Lat 24-48.6/ Long 81-21.8 & Lat 24-49.8/ Long 81-21.5 have deepened to 8'.

24-47.4  
47. Lat 24-47.4/ Long 81-22.9

A small uncharted isolated shoal bank with a least depth of 1' was located (15-6h and 31h red).

48. Lat 24-47.9/ Long 81-22.8

shown by zero curve on sheet  
A small uncharted isolated bank bare at MLW (15-8k red) was located. It is indicated on sheet 1827.

49. Lat 24-48.0/ Long 81-23.0

A small isolated uncharted bank was found. Least depth is  $\frac{1}{2}$ ' (19-20k red)

50. Lat 24-48.2/ Long 81-22.5

A large bank with general depths of 2' and least depths of  $\frac{1}{2}$ '-1' was found here. The limits were not run out but may be defined as the one foot curve. It is separated from the bank to the north by a narrow channel. Least depth over it is  $\frac{1}{2}$ ' but it probably bares in spots at MLW.

A ridge broken into two or three sections lies on its SE point and is separated from it by a narrow channel. The ridge was sketched on the smooth sheet with the aid of the air-photos. (Area within the dotted lines) (49-57  $\frac{1}{2}$ ' (44-77) 0 ft (48-92))

The bank is not indicated on sheet 1827.

51. Lat 24-48.5 to 49.2/ Long 81-22.5 to 23.1

A long T shaped ridge the north end of which is indicated on the chart was located here. Its limits were not run out but may be defined as the one foot curve. Least depth is  $\frac{1}{2}$ ' and it probably bares in spots at extreme low water.

The narrow channel between this shoal and shoal #50 has a controlling depth of 3'.

52. Lat 24-47.8<sup>b</sup>/ Long 81-23.6

A short ridge jutting out from the east side of an indefinite bank was located. Least depth  $\frac{1}{2}$ ' (35-6h red) Not charted.

SHOALS AND DANGERS. (CONT'D)

53. Lat 24-47.6/ Long 81-23.1 ✓

An uncharted ridge was found here. Least depth  $\frac{1}{2}$ ' (32-4h red) ✓

54. Lat 24-47.7 to 48.0/ Long 81-23.0 to 23.3

A long Y shaped uncharted ridge was located here. It is indicated on sheet 1827. Least depth on the main ridge is  $\frac{1}{2}$ ' (23-8j red) and on the secondary ridge is bare in spots at MLW (26-34a' red). ✓*called bare MLW  
in Sdg. Report*

55. Lat 24-48.2/ Long 81-23.2 ✓

An uncharted isolated bank with a least depth of  $\frac{1}{2}$ ' (29-32j red) was located. ✓

56. Lat 24-48.1/ Long 81-23.5

Three small uncharted banks were located here, all of which bare at MLW (41-6h red). ✓

57. Lat 24-48.5 to 48.8/ Long 81-23.2 to 23.8

Two fairly large banks both of which are indicated on sheet 1827 were located here. Both are definite on the southeast edges but are somewhat indefinite on the northwest and have numerous isolated shoal patches on the north sides. They are separated by a narrow channel navigable at MLW by a fish boat (average draft  $2\frac{1}{2}$ ') Both bare in spots at MLW (51-62h, 33-41j red and 25a' gn). *Bare MLW in Sdg. Vol.* ✓A third bank lies close by to the NE which bank also bares in spots at MLW (22-5k red). *See Verif. Report* ✓

58. Lat 24-48.8 to 49.6/ Long 81-23.5 to 23.7

A series <sup>of banks</sup> separated by narrow channels which channels have depths equal to the general surrounding depths lie in a more or less straight line in this vicinity. These were outlined (42-61j red) and either bare or are covered  $\frac{1}{2}$ ' at MLW. Some are indicated on sheet 1827. ✓59. Lat 24-49.1/ Long 81-23.10 *see Verif. Report.* ✓

Two small uncharted banks separated by channels lie here. Both bare at MLW (54-5 &amp; 56-7n red). ✓

60. Lat 24-49.0 to 50.0/ Long 81-23.0 to 23.8

The chart shows a long narrow shoal or ridge bare at MLW. S Survey shows a shoal bank within the 3' curve with depths varying from 1'-3' and having a number of small isolated patches on SW and S sides. The tide was high at the time the banks were developed and the shoalest patches could not be identi- ✓

*L. D.  $\frac{1}{2}$  Ft.*

## SHOALS AND DANGERS (CONT'D)

## 60. (Cont'd)

fied sufficiently well to be outlined but may be defined as the 1' curve.

61. Lat 24-<sup>50.0</sup>45.0/81-23.1 Rocky Channel Bank.

This bank is indicated on sheet 1827. It was developed and a least depth of 1' found.

Local fishermen call the bank 'Rocky Channel Bank' because in entering Rocky Channel it is used as a guide. The bank is easily identifiable because of its sand bottom.

## 62. Lat 24-49.8/ Long 81-23.8

Three isolated banks indicated on the chart were located here. All bare in spots at MLW. (127-38 c rd).

*Probably Bare in spots MLW - Banks sounded over*

## 63. Lat 24-50.3/ Long 81-23.2

Chart shows 5' within the 6' curve. Area developed and found an isolated shoal with a least depth of 3½' (89p red).

## 64. Lat 24-46.5/ Long 81-24.8

Two shoal ridges were located here which ridges are indicated on the chart. They lie on the west side of Big Spanish Channel. The south ridge has a least depth of 1' at MLW (8-10g red) and the north ½' (99-102e red) Both are sketched on the smooth sheet. Bn 33 lies on the NE point of the north ridge.

## 65. Lat 24-47.0/ Long 81-24.7

A small patch bare at MLW (175c red) was found on the east side of the channel with a stump of an iron piling bare ½' at MLW on its channel side.

## 66. Lat 24-47.2/ Long 81-24.9

A pair of uncharted banks bare at low water were located. They lie on a tongue projecting northward into the channel. (101-2 & 103-4d red)

## 67. Lat 24-47.3/ Long 81-24.9

A depth of 4' (1a' gn) was found on the north point of the tongue on which shoals #66 are located. The sounding was taken on the stump of an old piling bare ½' at MLW which stump lies on the west side of the channel about 100m north of Bn 39.

SHOALS & DANGERS (CONT'D)

68. Lat 24-47.8 to 48.3 / Long 81-24.8

An uncharted mid-channel bank was found here. Least depth is 2' (8a' gn) on its south end and it gradually increased to 5' on its north end. General depths over the bank are 3-4'.

69. Lat 24-48.<sup>6</sup> / 81-24.7

An uncharted shoal bank with a least depth of  $\frac{1}{2}$ ' (122-4q red) was located. An isolated patch with  $\frac{1}{2}$ ' (125q) lies of its eastern point.

70. Lat 24-48.7 to 48.9 / 81-23.8 to 24.4

A line of banks with depths from  $\frac{1}{2}$ ' <sup>not according to Sdg. Records</sup> ~~bare at MLW~~ to 1' lie in this vicinity (9-18a' gn, & 63-8h red) The line runs almost due east and west and is the approximate 3' curve.

Note- Sheet 18<sup>2</sup>7 shows a bank apparently bare at LW extending from Big Spanish Key north to Lat 24-49.5.

The area was covered by approximate 200 meter lines, and the the north limit of the 3' curve defined by a line of ridges. (69-70 above). Within the 3' curve to the key there are several isolated ridges similar to those in the vicinity. They were not outlined as, at high tide, they were difficult to locate, and at low tide, could not be reached.

They show to some extent on the air-photos and from appearances may be described as follows:

Beginning at Lat 24-47.8, a series of ridges parallel the swash channel to Lat 24-48.0, thence turn east about 0.5 mile, thence ~~NE~~<sup>not in photo to date</sup>ly to about position 25a' gn in Lat 24-48.5 / Long 81-23.8. An isolated ridge lies in approximately Lat 24-48.0 / Long 81-23.9. Apparently the depths over them are  $\frac{1}{2}$ -1' at MLW.

71. Lat 24-49.0 / Long 81-24.0 to Lat 24-49.8 / Long 81-25.0

This area is spotted with numerous banks and shoals of various sizes. They were outlined (60-126c) and are shown on the boat sheet by a dotted line with notations. The outline on the smooth sheet was modified by reference to the air-photos, and the inner area covered by a note. SEE 700 (66a red)

72. Lat 24-49.6 to 50.0 / Long 81-23.8 to 24.5

This area is studded with banks. The Gulf edge only was outlined (139-57c red). There are a few ridges on the south edge of the 3' curve which show ~~eh~~ on the photos.

SHOALS AND DANGERS (CONT'D)

73. Lat 24-47.4/ Long 81-25.1

A small uncharted bank bare at MLW (105-7d red) was located. A shoal patch with  $2\frac{1}{2}'$  (108d red) lies about 200 meters N.

74. Lat 24-47.7/ Long 81-25.0

*Not a mid-chan. shoal but a projecting point of main shoal.*

A small mid-channel shoal with a least depth of 4' (2-3a' ga) was located here.

75. Lat 24-47.5 to 48.5/ Long 81-25.0 to 26.0

There are a number of shoal ridges, patches, and small banks in the vicinity. They were outlined on the smooth sheet and are fully described in the record (109-21d & 19-38g red). The shoalest sections, which probably bare at extreme low water, are enclosed within the dotted line.

Some of the banks are indicated on the present chart.

76. Lat 24-49.3/ Long 81-25.7

A shoal tongue with a least depth -upon development- of  $5\frac{1}{2}'$  (74-5 a red) was located here. It lies on the East side of Harbor Key Channel. Not on present chart.

77. Lat 24-49.5 to 50.0/ Long 81-25.<sup>c</sup> to 26.0

A sand and grass bank which bares at MLW on its eastern edge was located. It is surrounded by deeper water on all sides and has general depths of 1-2'.

78. Lat 24-50.3/ Long 81-25.8

A shoal spot on a sand ridge about 100 meters south of Harbor Key Bank Light was found. Least depth, on development, was  $5\frac{1}{2}'$  (70a red)-general depths 7'-8'.

79. Lat 24-50.3/ Long 81-25.1 Turtlecrawl Bank

Chart shows a bank here. Survey shows a small sand and grass bank covered  $\frac{1}{2}'$  at MLW (158-63c red) with a group of 3 iron pilings covered  $\frac{1}{2}'$  at its south point. *163 c (red)*

Local tradition states that, at one time, a turtlecrawl was established on the bank and the pilings are the remains.

80. Lat 24-50.8/ Long 81-25.3

A small mud and grass shoal with a least depth of 5' (43-4b red) was found. Investigated (52g red) and found nothing less.



HARBORS AND CHANNELS

## INTRACOSTAL WATERWAY

OK Big Spanish Chan.  
G.H.E.

A section of the Intracostal Waterway traverses the western section of the sheet passing thru Big Spanish Channel to the Gulf of Mexico. The channel, in the vicinity of Big Spanish Key, is narrow and crooked but well marked. North of the key the depths are ample for any boat capable of making the passage.

## Directions

From	To	Course True	Dist Naut	Contro Depth
1. 100 yds SW of Bn 30 (20)	30 yds NE of Bn 33	309	2.6	6'
2. 30 yds NE of Bn 33.	50 yds W. of Bn 38	Var	0.8	13'
3. 50 yds W of Bn 38	0.42 mile 11 T fr Bn 41	4	0.8	12'
4. 0.42 mile 11 T fr Bn 41	0.8 mile 155 T fr Harbor Key Lt	335	1.2	13
5. 0.8 mile 155 T fr Harbor Key Lt	0.4 mile 33 T fr Harbor Key Lt	352	1.1	12'
6. 0.4 mile 33 T fr Har. Key Lt	NW Channel Ent Buoy	245	28.2	7'

Course (1) pass close by to the SW of Bn 32 (22) which has been recently moved by the LH Bureau to a point approximately 200 yds NE of its triangulation location. After passing this beacon it is best to head slightly to the south of Bn 33 (identified by the target) and when about 150 yds from the beacon turn sharply into the channel which may be easily seen as the water is a distinctive green.

*Bn. moved*

Course (2) passes thru the narrow channel and close by a number of shoal banks. Be guided by the appearance of the water (green in the channel and brown or a very light green over the banks and shoals) as well as the beacons. Pass not more than 20-5 yds off the beacons.

Course (3) pass about 100 yds east of Bn 41 which marks the NE point of a bank.

Course (5) passes about 100 yds easterly of Bn 43 and about 400 yds easterly of Harbor Key Lt (lt 45)

Note- A strong current sets thru the channel south of Bn 33. It is particularly noticeable in the neck and in the vicinity of Harbor Key Lt. As it attains an estimated vel-

HARBORS AND CHANNELS (CONT'D)INTRACOSTAL WATERWAY (CONT'D)

## Directions (Cont'd)

velocity of 2-<sup>5.0</sup> knots, caution should be taken to avoid a set.

BAHIA HONDA CHANNEL

This channel lies on the east side or border of the sheet. It is little used except by shoal draft fishing boats and is unmarked except for a few private fishing stakes which are temporary in nature.

The chart is the best guide. The main channel is good for a draft of 7' and the branch which leads off to the westward has a controlling depth of 5' at the point where it joins the main channel. This branch provides a short cut for boats bound westward to the Gulf, and should be followed only with local knowledge.

CHANNEL BETWEEN WEST BAHIA HONDA AND HORSESHOE KEY

This channel has a controlling depth of 8' between the keys and by following the chart 4' may be carried into Dick Skinner Channel. It is little used. The chart is the best guide.

CHANNEL BETWEEN HORSESHOE KEY AND JOHNSON KEY

This channel joins Rocky Channel at Lat 24-47.8/Long 81-20.5 and has a controlling depth of  $6\frac{1}{2}$ '. A second section joins at Lat 24-47.0/ Long 81-20.4 with a controlling depth of  $6\frac{1}{2}$ '-this is the main junction.

A short crossover at Lat 24-47/ Long 81-19 connecting the channel with the channel to the eastward has a controlling depth of 4'.

The chart is the best guide. The channel is little used.

CHANNEL BETWEEN HORSESHOE KEY AND LITTLE PINE KEY

This channel will be called Little Pine Channel for reference purposes. It joins Rocky Channel at Lat 24-48.0/ Long 81-21.5 and has a controlling depth of  $6\frac{1}{2}$ '.

The channel follows along the Southwest side of a bank making out to the NW of Johnson Key and curves around the end of the bank at the above position to join Rocky Channel. It passes among several small banks at the junction and should be navigated with local knowledge or with the sun high.

~~CHANNEL NORTH OF CRAWFORD KEY~~

HARBORS AND CHANNELS (CONT'D)CHANNEL NORTH OF CRAWL KEY

A channel connects Big Spanish with Little Pine and Rocky channels. It passes close by to the northward of Crawl Key between it and a isolated bank . It curves around to the NW paralleling a four foot bank on its east side and joins Little Pine Channel at Lat 24-47.6/ Long 81-21.6 . Local knowledge desirable.

CONTROLLING  
DEPTH

6'

CHANNEL IN THE VICINITY OF ROCKY CHANNEL BANK

A channel with a controlling depth of  $6\frac{1}{2}$ ' passes between Rocky Channel Bank and the bank to the southward. It is not marked and is used to a slight extent by the fishermen.

ROCKY CHANNEL

This channel is a deep trough extending SEward from the Gulf and as it is not used as a through passage the name applies locally only to its junction with Little Pine Channel, and the channel east of Johnson Keys. The chart is the best guide. Local knowledge is desirable but not necessary.

ANCHORAGE BASIN WEST OF BIG SPANISH KEY

An anchorage basin with fairly good holding ground, and good protection from the sea and current lies on the west side of Big Spanish Channel and about 0.5 mile west of Big Spanish Key.

Depths are about 7' throughout it and entrance may be made through two channels. That at Lat 24-47.8 has a controlling depth of 6' and that at Lat 24-45.8 4'.

SMALL BOAT CHANNEL FROM BIG SPANISH TO ROCKY CHANNEL

A passage between these two channels may be made by a boat of not over 4' draft.

## Directions-

Leave Big Spanish Channel at Lat 24-48.8 and follow along Lat 24-49 passing between the small banks at Long 81-23.6 Pass out into Rocky Channel between two extensive banks at Lat 24-49.1/ Long 81-23.1. Local knowledge is desirable but not necessary if the sun be high.

SWASH CHANNELS VICINITY HARBOR KEY LIGHT

A channel in Lat 24-49.6/ Long 81-26.7 provides a short cut from Big Spanish Channel to th Gulf. The Gulf entrance was not developed. Depth in the channel (controlling depth) is 5'.

A second channel 0.2 mile to the south was not run out.

HARBORS AND CHANNELS (CONT'D)

HARBOR ~~K&K~~ CHANNEL

This channel leaves Big Spanish Channel at Lat 24-49.6 and trends SSW. Controlling depth is 12' in the entrance.

CURRENTS

Strong irregular currents were noted in a number of locations in the vicinities of the various thru channels especially. The points of greatest velocity (1-2 knots) were: the west branch of Bahia Honda channel, among the banks east of Big Spanish Key, in Big Spanish Channel. They set south or southeast with the flood and Northwest with the ebb. They change decidedly upon entering between the keys in the south section of the sheet.

GEOGRAPHIC NAMES

A special report on these names is filed with the sheet. *SEE*

MISCELLANEOUS

The 3' curve was drawn in places to better define the banks.

The water is ordinarily clear and transparent but when stirred by a heavy and prolonged wind becomes milky and opaque which condition usually lasts about three days after the wind dies. The bottom is rather hard to see on a bright calm day as the sun is reflected from the water back into the eyes blinding them.

Statistics and tidal notes are attached.

Respectfully submitted,

*E. R. McCarthy*

E. R. McCarthy  
Chief of Party C&GS

MEMORANDUM BY CHIEF OF PARTY

The base office was in Key West while the field work was being done on this sheet and the area was surveyed by two launches based on No Name Key. Due to the fact that the Big Pine-No Name bridge had burnt down and was being rebuilt it was not until the middle of August that the camp at No Name was accessible by highway.

The banks within the limits of the sheet were thoroughly covered and notations made in the record as to conditions on them. In reviewing the sheet in the field, the banks were checked against the air photos and any differences noted in the report.

The lines west of Big Spanish Key end on a bank (vicinity of O Dub) which was not detailed on this sheet.

With the exception of Big Spanish Channel, the area enclosed by the sheet is of little present day importance. As stated in the body of the report, the winter fishing fleet based for one season in the anchorage at Dick Skinner Channel. Rocky Channel is used to some extent by the fishermen but not as a through passage.

Big Spanish Channel as a section of the Intracostal Waterway was developed with 100 meter lines. Because of the unimportance of the other channels little development was done except at the critical points.

F. Natella was in charge of the launch which surveyed the eastern section of the sheet. He has had little previous launch experience. P. A. Weber plotted the smooth sheet. It was his first sheet.

*E. R. McCarthy*  
E. R. McCarthy  
Chief of Party

STATISTICSPROJECT HT 158FLORIDA KEYSHYDROGRAPHIC SHEET NO. 20LAUNCH SURPRISE

DAY	DATE	MILES (STATUTE)	SOUNDINGS	POSITIONS	ADDITIONAL MILES
—	7-27-36	4.6	164	25	31.6
—	7-28-36	19.1	707	98	10.6
—	7-30-36	24.2	966	162	14.0
—	7-31-36	17.6	821	145	18.3
—	8-3-36	4.6	228	34	14.3
—	8-4-36	1.5	71	13	14.5
—	8-6-36	17.4	838	114	18.6
—	8-7-36	24.3	1084	200	9.7
—	8-10-36	19.7	852	133	23.5
—	8-11-36	36.1	1375	200	18.7
—	8-12-36	16.0	803	152	22.2
—	8-13-36	23.0	771	114	20.5
—	8-14-36	24.0	906	111	19.7
—	8-17-36	23.0	824	109	22.1
—	8-18-36	37.2	1390	190	17.7
—	8-19-36	16.2	721	131	26.2
—	8-20-36	16.7	695	119	24.4
—	8-21-36	27.6	1011	151	26.0
—	8-24-36	20.7	817	142	25.3
—	8-25-36	6.9	349	92	26.5
—	8-26-36	23.0	907	135	23.5
—	8-27-36	33.1	1251	232	18.2
—	8-28-36	38.4	1121	214	31.1
—	9-1-36	17.8	565	105	40.7
—	9-4-36	8.9	377	95	25.2
TOTALS		501.6	19614	3216	543.1

STATISTICSPROJECT HT 158 . FLORIDA KEYSHYDROGRAPHIC SHEET NO. 20DENNY LAUNCH

DAY	DATE	MILES (STATUTE)	SOUNDINGS	POSITIONS	ADDITIONAL MILES
p	8-7-36	22.4	727	108	14.7
b	8-10-36	32.0	894	135	13.8
c	8-11-36	20.9	738	190	12.6
d	8-12-36	31.8	923	195	13.0
e	8-13-36	27.0	<del>731</del>	132	13.2
f	8-14-36	19.5	608	89	18.9
g	8-17-36	29.3	893	165	15.2
h	8-18-36	29.3	962	168	13.5
i	8-19-36	28.7	915	177	14.6
k	8-21-36	7.5	290	72	21.0
l	8-24-36	21.3	717	147	16.4
m	8-25-36	30.1	983	206	20.0
n	8-26-36	13.3	531	116	26.3
r	8-27-36	30.0	954	160	20.5
s	8-28-36	24.7	792	125	20.1
			<del>11581</del>		
TOTALS		367.8	681	2185	253.8

STATISTICSPROJECT HT 158FLORIDA KEYSHYDROGRAPHIC SHEET NO. 20

BOAT	MILES (STATUTE)	SOUNDINGS	POSITIONS	ADDITIONAL MILES
"SURPRISE"	501.6	19,614	3,216	543.1
"DENNY"	367.8	11, <sup>681</sup> <del>501</del>	2,185	253.8
TOTALS	869.4	31, <sup>295</sup> <del>135</del>	5,401	796.9



Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. .... **H6158**

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

Number of positions on sheet	5401 .....
Number of positions checked	118 .....
Number of positions revised	4 .....
Number of soundings recorded	31295 .....
Number of soundings revised	15 .....
Number of signals erroneously plotted or transferred	.....

Date: 3/15/38

Inked by C. McKenney  
Verification by G.H. Everett

Time: 54 hrs  
78 1/4 hrs

Review by J.A. McCormick, May 17, 1938.

Time: 23 hr.

HYDROGRAPHIC SURVEY NO. H6158

Smooth Sheet Yes

Boat Sheet Yes (two)

Sounding Records 23 Vols. \_\_\_\_\_

Descriptive Report Yes

Title Sheet Yes

List of Signals 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 HYDROGRAPHY

Total Days 40

Last Date Sept. 4, 1936

Names marked \* to be inked on hydro sheet.

	Remarks	Decisions
1	ok see T-5544	<u>Big Spanish Chan</u>
2		see also D.R. pg.14
3		
4		
5		see also SR8 pg 4
6		see also pg 5 D.R.
7		see also pg.16 D.R.
8	"Harbor Key Bank" in Light List and Inside Route	
9		
10		
11		See H-6137
12		
13		
14		See H-6137
15		" "
16		" "
17		" "
18		" "
19		" "
20		" "
21		" "
22		" "
23		" "
24		see also D.R. pg 3,4 one word
25		Not on sheet
26		see also D.R. pg.18
27	One Word	See also D.R. pg.8
234		

GEOGRAPHIC NAMES  
Survey No. H6158

Name on Survey	<div style="display: flex; justify-content: space-between; font-size: small;"> <span>On Chart No. 1251</span> <span>On previous survey No. 7652 H-1827</span> <span>On U. S. Quadrangle Maps</span> <span>From local information</span> <span>On local Maps</span> <span>P. O. Guide or Map</span> <span>Rand McNally Atlas</span> <span>U. S. Light List</span> </div>										
	A	B	C	D	E	F	G	H	K		
<del>Big</del> Big Spanish Channel *	Spanish Chan. GNS										1
Turtlecrawl Bank *				SRB Pg. 4							2
Rocky Channel *				SRB Pg. 3							3
<del>Dick Skinner Channel</del>				SRB Pg. 3							4
Rocky Channel Bank	Turtle-crawl shoal	Turtle-crawl shoal		SRB Pg. 3?							5
<del>Jack</del> <del>Dick Skinner</del> Bank *				SRB Pg. 3							6
Bahia Honda Channel *				SRB Pg. 2							7
Upper Harbor Key	Harbor K (app'd)	Harbor K		SRB Pg. 2							8
Big Spanish Key *	✓ app'd			SRB Pg. 2							9
Little Spanish Key *	✓ app'd			SRB Pg. 2							10
Horseshoe Keys *	GNS app'd										11
West Bahia Honda Key *	✓ app'd			SRB Pg. 2							12
East Bahia Honda Key *	✓ app'd			SRB Pg. 2							13
Big Pine Key	✓ app'd										14
Buttonwood Strips Annette Key	Annette K app'd										15
Crawl Key *	✓ app'd										16
Water Key *	GNS app'd										17
Little Pine Key	✓ app'd										18
Johnson Keys *	✓ app'd										19
Sandfly Key	GNS app'd										20
Teakettle Key	GNS app'd										21
Hardup Key	GNS app'd										22
Cocoanut Key *	✓ app'd										23
Horseshoe Bank *				SRB Pg. 3							24
Basin Bank				SRB Pg. 2							25
Harbor Channel				SRB Pg. 4							26
Bull Frog Banks *	Bull Frog Bank			SRB Pg. 3				Bull Frog Bank			27

Remarks

Decisions

	Remarks	Decisions
1	<i>Extensive in area</i>	<i>Recommended by Field Party</i>
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## VERIFIERS REPORT ON H-6158

This sheet was very well plotted. The records conform to ✓  
the requirements of the general instructions.

Shoreline as shown was transferred in the office from  
T-5543 (1937<sup>5</sup>) Planimetric Map. Additional topo surveys have  
not been received in the office to date.

T-5544  
received and  
compared.

Junction with H-6137 is very good. Additional joining  
surveys have not been received in the office to date.

Curves are complete within the limits of the survey ✓

### SUPPLEMENTAL REMARKS TO STATEMENTS MADE IN THE DESC. REPORT.

Page 3 item 3. Ridge at 24-46.9; Long. 81-14.0 located in Sdg. Vol. is  
also shown on T-5543. The Topo survey extends this shoal too far to ✓  
the N.W. The limit as shown on hydro sheet is from a sextant fix and  
is considered the best authority for its outline.

Page 3. Item 4. Shoal at Lat. 24-49.1; Long. 81-14.2 The dash  
line as shown on the B.S. was omitted on the smooth sheet. The  
area is well covered by soundings showing two bare spots at MLW. ✓  
Dashed line added.

Page 4. Item 7 #3. Shoal at Lat. 24-47.7; Long. 81-14.9 is also  
shown on T-5543 but displaced to <sup>E.</sup>NE (50m) from hydro location.  
The hydro location (sextant fixes) was accepted. Also shoals  
at 24-47.9; 81-15.4 are shown on T-5543 but displaced N.E.  
(50m) from hydro location. The hydro location was accepted. ✓  
Air photo  
adjusted.

Page 4. Item 8. Shoal at 24.50.2; 81-15.7 The dash line  
as shown on B.S. was omitted on S.S. since this shoal is  
well developed by soundings. ✓  
Dashed line  
added.

Page 8 item 35. Bullfrog Banks. The  $\frac{1}{2}$  ft depth mentioned in D.R.  
is an estimated depth. These shoals were sounded over with ✓  
a L.D. of 1ft. The dash line as shown on B.S. was ~~omitted~~  
inked on S.S.

Page 11 Item 57 #2 shoal at lat. 24-48.9; Long. 81-23.2 shown  
on B.S. with dash line. The dash line was omitted on S.S. since ✓  
a zero sdg. and 1ft sdgs. indicate the shoal.

Page 11. Item 59. The easterly shoal at 24-49.1; 81-23 dotted  
shows  $\frac{1}{2}$  ft on a x-line (99-100s) and was not outlined by a dash ✓  
line. The note Bare MLW is an estimated depth.

Note - The B.S. has several signals erroneously plotted which  
gives a decided shift to many lines as compared with the S.S. ✓  
plotting.

The descriptions of signals out in the water are not given. There are some notes on the B.S. which are illegible. T-6509 (1936) on which the topo signals were located makes no statement about them. ✓

All notations concerning shoals are from the sounding Volumes. Outlines of shoals are shown on B.S. with their limits obtained by sextant fixes. ✓

Respectfully Submitted 3/15/38

W. Everett

LAC

TIDE NOTE FOR HYDROGRAPHIC SHEET

March 2, 1937.

Division of Hydrography and Topography:

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

Tide Reducers are approved in  
23 volumes of sounding records for

HYDROGRAPHIC SHEET 6158

Locality Bahia Honda Channel to Big Spanish Channel, Florida Keys.

- Chief of Party: E. R. McCarthy in 1936
- Plane of reference is mean low water reading
  - 1.0 ft. on tide staff at Harbor Key Light
  - 6.0 ft. below B.M. Nail in Central Pile
  - 1.8 ft. on tide staff at Dick Skinner Channel.
  - No B.M.'s established
  - 2.0 ft. on tide staff at Big Spanish Key
  - 3.5 ft. below B.M. 1
  - 0.2 ft. on tide staff at Little Spanish Key
  - 3.3 ft. below B.M. 1
  - 1.1 ft. on tide staff at Crawl Key
  - 4.0 ft. below B.M. 1
  - 1.8 ft. on tide staff at Johnson Key (North)
  - 2.3 ft. below B.M. 1
  - 1.8 ft. on tide staff at West Bahia Honda
  - 2.5 ft. below B.M. 1

~~Condition of records satisfactory except as noted below:~~

- 3.6 ft. on tide staff at Cocconut Key
- 2.4 ft. below B.M. 1

Height of mean high water above plane of reference is 3.4 feet at Harbor Key Light; 2.7 ft. at Dick Skinner Key; 2.6 ft. at Big Spanish Key; 2.4 ft. at Little Spanish Key; 2.0 ft. at Crawl Key; 1.6 ft. at Johnson Key (North); 1.4 ft. at West Bahia Honda; 0.9 ft. at Cocconut Key.

*Carl P. Whitney*  
Chief, Division of Tides and Currents



# GEOGRAPHIC NAMES

Survey No.

Name on Survey	A On Chart No. 1251	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
<u>Spanish Banks</u>										1
										2
										3
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Names underlined in red approved  
 by STP on 3/23/27

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6158 (1936) FIELD NO. 20

Bahia Honda Channel to Spanish Channel, Florida Keys, Florida.  
Surveyed in July - September 1936, Scale 1:20,000  
Instructions dated November 17, 1933 (H. A. COTTON)

Hand Lead and Pole Soundings.

3 Point fixes on shore signals.

Chief of Party - E. R. McCarthy.  
Surveyed by - E. R. McCarthy, F. Natella, P. A. Weber.  
Protracted by - P. A. Weber.  
Soundings plotted by - P. A. Weber.  
Verified and inked by - G. H. Everett and C. F. McKenney.

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 hydrographic and topographic signals in the water area. The signals are assumed to be on fish stakes or similar features of a temporary nature and of no importance in charting.

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

2. Compliance with Instructions for the Project.

The survey satisfies the instructions for the project.

3. Shoreline and Signals.

- a. Shoreline originates with topographic maps T-5543 (1935) and T-5544 (1935).
- b. Topographic signals originate with graphic control surveys T-6498 (1935-6) and T-6509 (1936).
- c. Hydrographic signals originate with the present survey, the fixes being recorded in the sounding volumes (see List of Signals inside cover of Volume 1).

4. Sounding Line Crossings.

The agreement of depths at sounding line crossings is satisfactory.

5. Depth Curves.

Within the area of the survey the usual depth curves may be satisfactorily drawn.

6. Junctions with Contemporary Surveys.

- a. The junction with H-6137 (1935-6) on the south is satisfactory.
- b. The junction with field work to the west and southwest will be considered when that work is received from the field.
- c. The Instructions do not contemplate surveys to the north and northeastward of the present survey limits. The junctions with older surveys as shown on the chart, however, are satisfactory for charting purposes.

7. Comparison with Prior Surveys.

- a. H-1827 (1888), 1:40,000; H-1926 (1889), 1:20,000.

The present survey falls entirely within the combined area of the above surveys. The old and new surveys are in fair agreement as to the number and location of submarine features in the area, but depths on the present survey are deeper by an average of 1 to 2 feet. Less accurate tide corrections on the older surveys are probably responsible for most of the differences (see descriptive report, page 1). The old surveys contain no features that need to be retained and should be superseded by the present survey in future charting.

8. Comparison with Chart 1251 (New Print dated Dec. 23, 1937)  
Chart 3261 (New Print dated March 30, 1938).

- a. Hydrography.

Within the area of the present survey the charts are based entirely on surveys discussed in the foregoing paragraphs. The 1 foot depth charted in lat.  $24^{\circ} 46.8'$ , long.  $81^{\circ} 23.9'$  falls in depths of 5 feet on the present survey and in 4-1/2 feet on H-1926 (1889). The sounding first appeared on the 1895 edition of obsolete Chart 169, the same edition on which H-1926 (1889) was first applied. The one foot depth is undoubtedly an error in compiling and should be disregarded in future charting.

- b. Aids to Navigation.

Positions on the present survey of beacons 20 and 22, (re-numbered 30 and 32, respectively), 33, 34 and 36 in the vicinity of Spanish Channel and Big Spanish Key differ from the charted positions by amounts varying from 100 to 300 meters. The aid proof gives Chart Letter 633 of 1936 as the authority for the present charting, but the positions listed in the letter originate with the present survey and are in

excellent agreement therewith. Charted positions of all other aids in the area are in good agreement with those on the survey. The aids as shown on the present survey adequately mark the channel.

9. Field Plotting.

The field plotting was satisfactory.

10. Additional Field Work Recommended.

The survey is complete and no additional work is required.

11. Note to Compiler.

Attention is called to the treatment of Chart Letter 633 of 1936 discussed in par. 8b, this review.

12. Superseded Old Surveys.

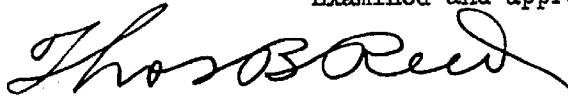
Within the area covered the present survey supersedes the following surveys for charting purposes:

H-1827 (1888) in part  
H-1926 (1889) in part

13. Reviewed by - J. A. McCormick, May 17, 1938.

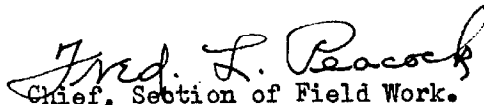
Inspected by - Harold W. Murray and E. P. Ellis.

Examined and approved:




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

K. T. Adams  
Chief, Division of Charts.



Fred. L. Beacock  
Chief, Section of Field Work.



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

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
 DESCRIPTIVE REPORT  
~~PHOTOSTAT OF~~

No. H-6158

~~NO. 100~~

received Feb. 15, 1937  
 registered Feb. 25, 1937  
 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
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✓ 25		D. R.
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RETURN TO

82	C. K. Green
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✓

Applied to O.N. 1251 - Dec. 1938. Dr. S. G.  
Checked for correct application to 1251 June 1952 MA

Applied to 852 - JFW 10/15/58  
" " 859 JFW 11/5/58