

11397

Diag. Cht. No. 1255.

|                                      |                              |
|--------------------------------------|------------------------------|
| Form 504                             |                              |
| U. S. DEPARTMENT OF COMMERCE         |                              |
| COAST AND GEODETIC SURVEY            |                              |
| DESCRIPTIVE REPORT                   |                              |
| Type of Survey                       | Shoreline                    |
| Field No. Ph-146                     | Office No. T-11397           |
| LOCALITY                             |                              |
| State                                | Florida                      |
| General locality                     | Gulf Coast                   |
|                                      | Charlotte Harbor             |
| Locality                             | Yucca Pen Creek to Fines Key |
| 19 53-58                             |                              |
| CHIEF OF PARTY                       |                              |
| H.C.Applequist, Chief of Field Party |                              |
| J.E.Waugh, Tampa Photo. Office       |                              |
| LIBRARY & ARCHIVES                   |                              |
| DATE                                 | February 1965                |

USCOMM-DC 5087

11397

DESCRIPTIVE REPORT - DATA RECORD

T - 11397

Project No. (II): 27310

Quadrangle Name (IV):

Field Office (II): Fort Myers, Fla.

Chief of Party: H. C. Applequist

Photogrammetric Office (III): Tampa Fla.

Officer-in-Charge: J. E. Waugh

Instructions dated (I) (III): 2 July 1954  
Amendment No. 1 9 Nov. 1954

Copy filed in Division of  
Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III): None

Date received in Washington Office (IV): 16 JUL 1959

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): M.H.W.

~~NOTE~~ except as follows:  
Elevations shown as (25) refer to mean high water  
Elevations shown as (5) refer to sounding datum  
i.e., mean low water or mean lower low water

Reference Station (III): SANDY 1934

Lat.: 26°46'08".259(254.2m)

Long.: 82°02'19".786(546.6m)

Adjusted

~~00200000~~

Plane Coordinates (IV):

State:

Zone:

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,  
or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

FORM 181a  
(4-23-54)

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

# DESCRIPTIVE REPORT - DATA RECORD

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SHORELINE

Areas contoured by various personnel  
(Show name within area)  
(II) (III)

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): **E. T. Jenkins**

Date: **June 1956** ✓

Planetable contouring by (II): **Inapplicable** ✓

Date:

Completion Surveys by (II): **Inapplicable** ✓

Date:

Mean High Water Location (III) (State date and method of location): **Air Photo Compilation** ✓  
**June 1956**

Projection and Grids ruled by (IV): **Austin Riley (W.O.)**

Date: **14 Sept. 1954** ✓

Projection and Grids checked by (IV): **Austin Riley (W.O.)**

Date: **28 Sept. 1954** ✓

Control plotted by (III): **W. H. Shearouse**

Date: **9 March 1956** ✓

Control checked by (III): **R. R. Wagner**

Date: **9 March 1956** ✓

Radial Plot ~~by (III):~~

Date: **19 April 1956** ✓

~~by (III):~~ **M. M. Slavney**

Planimetry

Date:

Stereoscopic Instrument compilation (III):

**Inapplicable** ✓

Contours

Date:

Manuscript delineated by (III): **R. R. Wagner** ✓

Date: **30 Nov. 1956** ✓

Photogrammetric Office Review by (III): **J. A. Giles**

Date: **30 Jan. 1957** ✓

Elevations on Manuscript

Date:

checked by (II) (III): **Inapplicable** ✓

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): 9 lens C&GS

PHOTOGRAPHS (III)

| Number | Date        | Time  | Scale    | Stage of Tide |
|--------|-------------|-------|----------|---------------|
| 42949  | 1 Dec. 1953 | 14:22 | 1:10,000 | 0.6           |
| 42973  | " " "       | 14:51 | "        | "             |
| 42974  | " " "       | 14:52 | "        | "             |
| 42975  | " " "       | 14:53 | "        | "             |
| 42976  | " " "       | 14:54 | "        | "             |

585 1674 thru 1677 21 Oct 1958

Tide (III)

Predicted Tides

Reference Station: Tampa Bay

Subordinate Station: Port Boca Grande, Charlotte Harbor

Subordinate Station: Punta Gorda, Charlotte Harbor

| Ratio of<br>Ranges | Mean<br>Range | Spring<br>Range |
|--------------------|---------------|-----------------|
| --                 | 1.5           | 2.0             |
| 0.7                | 1.0           | 1.3             |
| 0.9                | 1.4           | 1.9             |

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 9

Shoreline (More than 200 meters to opposite shore) (III): 9

~~856 1674 thru 1677 21 Oct 1958~~

Control Leveling - Miles (II): Inapplicable

Number of Triangulation Stations searched for (II): 6

Recovered: 4\*\*

Identified: 6\*

Number of BMs searched for (II): 0

Recovered: 0

Identified: 0

Number of Recoverable Photo Stations established (III): 1

Number of Temporary Photo Hydro Stations established (III): 19

Remarks:

\* One Station used in the plot is now destroyed and not shown on manuscript.

\*\* One station was established.

THE FIELD INSPECTION REPORT IS  
SUBMITTED WITH T-11394



COMPILATION REPORT T-11397PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-11396 ✓

31. DELINEATION ✓

The graphic method was used. ✓

The photographs were of poor scale. ✓

The field inspection was good. ✓

32. CONTROL ✓

See Photogrammetric Plot Report. ✓

33. SUPPLEMENTAL DATA ✓

None. ✓

34. CONTOURS AND DRAINAGE ✓

Contours are inapplicable. ✓

The drainage was delineated without any difficulties. ✓

35. SHORELINE AND ALONGSHORE DETAILS ✓

The shoreline inspection was adequate. ✓

The L.W.L. was based on data furnished by the inspector. ✓

*1958 photos were used for additional corrections*

36. OFFSHORE DETAILS

No unusual problems were encountered. ✓

37. LANDMARKS AND AIDS ✓

Forms 567 for landmarks and aids were submitted to W.O. 3 August 1956. ✓

### 38. CONTROL FOR FUTURE SURVEYS

One (1) photo-hydro station (4001) submitted with T-11400 (south), falls on this manuscript.

A list of topographic and photo-hydro stations, with descriptions for the latter are included in paragraph 49.

### 39. JUNCTIONS

Junctions were made with the following: T-11391 to the north, T-11396 to the west, and T-11400 to the south. There is no contemporary survey to the east.

### 40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

### 46. COMPARISON WITH EXISTING MAPS

Comparison was made with C&GS planimetric maps T-5874 and T-5875, scale 1:10,000, dated 1943. The manuscript and maps are in for agreement.

### 47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with C&GS Chart 1255, scale 1:80,000 dated 1924, corrected to 20 Feb. 1956. The two are in fair agreement.

The maps listed in Item 46 appear to be the sources of topography and the same differences exist.

### ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

### ITEMS TO BE CARRIED FORWARD

None.

*R. R. Wagner*  
R. R. Wagner  
Carto Survey Aid

APPROVED AND FORWARDED:

*William A. Rasur*  
for J. E. Waugh  
Chief of Party

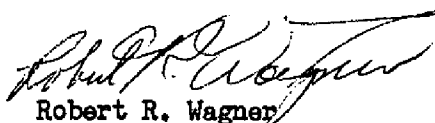


## ADDENDUM TO COMPILATION REPORT T-11397

Single lens photographs 58-S-1674 through 58-S-1677 taken 21 October 1958, were used to verify the shoreline and interior details. Revision was made as indicated on the newer photographs.

Of particular significance is the area under construction at approximate latitude  $26^{\circ} 48'$ , longitude  $82^{\circ} 02.5'$ . This apparently is a real estate development and is referred to by Mr. G. E. Varnadoe as PIRATE HARBOR in a letter which is a part of this report. However, the name has not been recommended as official and is not shown.

An ozalid print of the map compilation was used as a plane-table sheet to extend new features eastward to limits of delineation. It is included as a part of the map data.

  
Robert R. Wagner  
Cartographer

Tampa, Fla.  
13 May 1959

11

48. GEOGRAPHIC NAME LIST

The following are base map names applied to the manuscript:

BEAR BRANCH

CHARLOTTE HARBOR

COTTON KEY

CROW KEY

FINES KEY

FLORIDA

HOG BRANCH

ROBERTS ISLAND *OK A/W* See letter from H.E.U. dated 9 Feb 1959

~~SMOKEY JOE~~

TERRAPIN KEY

YUCCA PEN CREEK

*A. J. Wright*  
*Geog. Names Sec.*

49. NOTES FOR THE HYDROGRAPHER.

One (1) topographic station and nineteen (19) photo-hydro stations with descriptions for the latter are as follows:

JOHN, 1956

- 9701 - The center of a small low mangrove bush that grows on an oyster bed that is about 110 feet west of the mangrove shoreline. Station is marked with a 9-foot flagged pole. Note A. Photo 42976.
- 9702 - A point of mangrove at the north end of a small indentation of the mangrove shoreline. Station is 180 feet south of the south edge of a clump of grass that grows on the foreshore. Note A & B. Photo 42975.
- 9703 - The center of a mangrove bush that is about 40 feet west of the mangrove shoreline. There is a much larger clump of mangrove about 25 feet north of this bush. The bush is located about 300 feet north of the mouth of a small stream. Note A & B. Photograph 42975.
- 9704 - The centerline intersection of a small stream with the low mangrove line. This is the only small stream in the near area. Station is marked with a 6-foot flagged pole. Note A. Photo 42975.
- 9705 - The center of a dead mangrove bush that stands about 60 feet north of a point. A 10-foot cane pole was left standing at the station. Note A & B. Photo 42975.
- 9706 - The north end of a low overhanging mangrove limb. Just north of this station, when looking east, there is a small indentation in the shoreline and a small opening that leads to a small sand ridge on the island. Station is marked with an 8-foot flagged pole. Note A & B. Photo 42975.
- 9707 - The northwest corner of a beached houseboat in ruins. Houseboat ruins are about 200 feet south of the north tip of the island. Note A. Photo 42974.
- 9708 - The northwest corner of the most northerly net drying rack. This rack is about 100 feet in length. Station is not marked. Photo 42976.

- 9709 - Station is the east gable of a small shack in ruins. There is a short small pier to the east of the shack. Station is not marked. Photo 42974.
- 9710 - Station is the east gable of a tin-roofed shack at the north end of the island. Station is not marked. Photo 42974.
- 9711 - Station is a point of low overhanging mangrove that is about 150 feet northwest of the southeast end of the island. Note A & B. Photo 42974.
- 9712 - Station is an overhanging mangrove tree that is small and has little foliage. It is near the center of the island near the northwest shoreline. The top of this small tree, which is the point located, is about 7 feet above water. Note A & B. Photo 42974.
- 9713 - The southeast end of some oyster rock that leads off from the south end of the island. The end of the oyster rock is about 28 feet from the mangrove. Note A & B. Photo 42974.
- 9714 - The northwest corner of an overhanging mangrove that is about 15 feet in height. Note A & B. Photo 42974.
- 9715 - The south tip of an overhanging mangrove tree that grows about 180 feet south-southeast of a point that is near the northwest corner of the island. Note A & B. Photo 42974.
- 9716 - The tip end of the most southerly part of the mangrove on the south side of the small island. Note A & B. Photo 42974.
- 9717 - Station is a 7-foot flagged pole driven into the mud and sand on the west side of the island. Station is near the most prominent point on the west side of the island. There has been a house inshore, east of the station and the area is now covered with shells.

Compiler: 9717 was established by fix. Below are shown the angles from the station:

|                             |           |
|-----------------------------|-----------|
| Piling #9 (near FISH, 1956) | 00-00-00  |
| FISH, 1956                  | 01-23-28  |
| Photo Point #2              | 106-23-02 |
| Photo Point #3              | 173-04-17 |

9705A - is an 8-foot flagged pole driven into the mud and sand about 20 feet beyond the mangrove shoreline. Station is 50.9<sup>6</sup> from JOHN, 1956 on line with CHARLOTTE HARBOR LIGHT 2, 1943. Note A & B. Photo 42975

400-1 - The southwest corner of a dead mangrove bush that is about 100 feet northeast of the most northerly of two oyster beds. Note A & B. Photo 42976.

NOTE A - A stake with small flag driven into ground and usually projects 2-3 feet. Also a shorter stake nearby with its upper portion painted white with U. S. Gov't in black on it.

NOTE B - Tied on or nearby and usually higher is a two-foot white cloth streamer.

PROJECT PH-146

SHEET T-11397

Note to Compiler

Roberts Island at Lat.  $26^{\circ}48.2$  Long.  $82^{\circ}03.0$  is no longer an island as it has been incorporated into a development named Pirate Harbor, and is now a part of a peninsula.

The name Roberts Island has therefore lost its meaning. It will be unknown according to the developers of the area and should be omitted from the map.

*George B. Varnadoe*  
George B. Varnadoe  
9 February 1959

PHOTOGRAMMETRIC OFFICE REVIEW

50.

T- 11397

1. Projection and grids J.G. 2. Title J.G. 3. Manuscript numbers J.G. 4. Manuscript size J.G.

4a Classification label unclassified

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy M.M.S. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) J.G. 7. Photo hydro stations J.G. 8. Bench marks XX  
9. Plotting of sextant fixes XX 10. Photogrammetric plot report J.G. 11. Detail points J.G.

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline J.G. 13. Low-water line J.G. 14. Rocks, shoals, etc. J.G. 15. Bridges J.G. 16. Aids to navigation J.G. 17. Landmarks J.G. 18. Other alongshore physical features J.G. 19. Other along-shore cultural features J.G.

PHYSICAL FEATURES

20. Water features J.G. 21. Natural ground cover J.G. 22. Planetable contours XX 23. Stereoscopic instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical features J.G.

CULTURAL FEATURES

27. Roads J.G. 28. Buildings J.G. 29. Railroads XX 30. Other cultural features J.G.

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

33. Geographic names J.G. 34. Junctions J.G. 35. Legibility of the manuscript J.G. 36. Discrepancy overlay XX 37. Descriptive Report J.G. 38. Field inspection photographs J.G. 39. Forms J.G.

40. Jesse A. Giles Reviewer William A. Rasure Supervisor, Review Section or Unit Wm. A. Rasure

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

\_\_\_\_\_  
Compiler

\_\_\_\_\_  
Supervisor

43. Remarks:



# TIDE COMPUTATION

PROJECT NO. 27310 T-11397

Time and date of exposure 1451 Dec 4 1953 Reference station Tampa Bay Mean range 1.0  
 Date of field inspection June 1956 Subordinate station Port Boca Grande, Charlotte Harbor Ratio of ranges 0.7

|                             | Time |    | Height<br>feet | Height x Ratio<br>of ranges | Time |    | Time<br>h. m. |
|-----------------------------|------|----|----------------|-----------------------------|------|----|---------------|
|                             | h.   | m. |                |                             | h.   | m. |               |
| High tide                   | 20   | 36 | 1.9            | 1.3                         | 22   | 11 | 13-48         |
| Low tide                    | 14   | 13 | 0.8            | 0.6                         | -1   | 35 | -1 35         |
| Duration of rise<br>or fall | 6    | 23 |                | 0.7                         | 20   | 36 | 14 13         |

|                                | h. | m. | Height<br>feet                | Height x Ratio<br>of ranges | feet                    | Photo. No. |
|--------------------------------|----|----|-------------------------------|-----------------------------|-------------------------|------------|
| Time <del>H. T.</del> or L. T. | 14 | 13 | Ht. <del>H. T.</del> or L. T. |                             |                         |            |
| Required time                  | 14 | 51 | Tabular correction            |                             | Feature bares           | 42973      |
| Interval                       | 38 |    | Stage of tide above MLW       |                             | Stage of tide above MLW |            |
| Time H. T. or L. T.            |    |    | Ht. H. T. or L. T.            |                             | Feature above MLW       |            |
| Required time                  |    |    | Tabular correction            |                             | Stage of tide above MLW |            |
| Interval                       |    |    | Stage of tide above MLW       |                             | Feature above MLW       |            |
| Time H. T. or L. T.            |    |    | Ht. H. T. or L. T.            |                             | Feature bares           |            |
| Required time                  |    |    | Tabular correction            |                             | Stage of tide above MLW |            |
| Interval                       |    |    | Stage of tide above MLW       |                             | Feature above MLW       |            |
| Time H. T. or L. T.            |    |    | Ht. H. T. or L. T.            |                             | Feature bares           |            |
| Required time                  |    |    | Tabular correction            |                             | Stage of tide above MLW |            |
| Interval                       |    |    | Stage of tide above MLW       |                             | Feature above MLW       |            |

Computed by [Signature] Checked by 115

# TIDE COMPUTATION

PROJECT NO. PM 27310 T. 11397

Time and date of exposure 1451 Dec 11 1953 Reference station Tampa Bay Mean range 1.4  
 Date of field inspection June 1956 Subordinate station Punta Gorda, Charlotte Harbor Ratio of ranges 0.9

|                             | Time |    | Height<br>feet | Height x Ratio<br>of ranges | Range of tide |
|-----------------------------|------|----|----------------|-----------------------------|---------------|
|                             | h.   | m. |                |                             |               |
| High tide                   | 12   | 01 | 1.0            | 0.9                         |               |
| Low tide                    | 16   | 08 | 0.8            | 0.7                         |               |
| Duration of rise<br>or fall | 4 07 |    |                | 0.2                         |               |

|  | Time  |    | High tide at Ref. Sta. | Time difference | Corrected time at<br>Subordinate station |
|--|-------|----|------------------------|-----------------|--|
|  | h.    | m. |                        |                 |  |
| High tide at Ref. Sta.                   | 11    | 41 |                        |                 |  |
| Time difference                          | 40 20 |    |                        |                 |  |
| Corrected time at<br>Subordinate station | 12    | 01 |                        |                 |  |

|  | Time  |    | Low tide at Ref. Sta. | Time difference | Corrected time at<br>Subordinate station |
|--|-------|----|-----------------------|-----------------|--|
|  | h.    | m. |                       |                 |  |
| Low tide at Ref. Sta.                    | 15    | 48 |                       |                 |  |
| Time difference                          | 40 20 |    |                       |                 |  |
| Corrected time at<br>Subordinate station | 16    | 08 |                       |                 |  |

|  | h. | m. | Ht. H. T. or L. T.<br>Tabular correction<br>Stage of tide above MLW | feet | Feature bares<br>Stage of tide above MLW<br>Feature above MLW | feet | Photo. No. |
|--|----|----|---|------|---|------|------------|
| Time H. T. or L. T.<br>Required time<br>Interval | 16 | 08 |   | 0.7  |   |      | 42973      |
|  | 14 | 51 |   | 0.0  |   |      |            |
|  | 1  | 17 |   | 0.7  |   |      |            |
| Time H. T. or L. T.<br>Required time<br>Interval |    |    |   |      |   |      |            |
| Time H. T. or L. T.<br>Required time<br>Interval |    |    |   |      |   |      |            |
| Time H. T. or L. T.<br>Required time<br>Interval |    |    |   |      |   |      |            |
| Time H. T. or L. T.<br>Required time<br>Interval |    |    |   |      |   |      |            |
| Time H. T. or L. T.<br>Required time<br>Interval |    |    |   |      |   |      |            |
| Time H. T. or L. T.<br>Required time<br>Interval |    |    |   |      |   |      |            |

Review Report  
Shoreline Maps  
T-11395 thru T-11400  
March 1965

61. General Statement

Area - The project encompasses the west coast of Florida from Venice to Big Hickory Pass, including Charlotte Harbor and Fort Meyers.

Purpose - The object of this project is to provide shoreline and horizontal control data for hydrographic surveys, and to provide data for nautical chart revisions.

62. Comparison with Registered Topographic Surveys

|        |          |      |
|--------|----------|------|
| T-5859 | 1:10,000 | 1944 |
| T-5860 | 1:10,000 | 1944 |
| T-5861 | 1:10,000 | 1944 |
| T-5862 | 1:10,000 | 1944 |
| T-5873 | 1:10,000 | 1944 |
| T-5874 | 1:10,000 | 1944 |
| T-5875 | 1:10,000 | 1944 |

There are cultural and shoreline changes due to the differences in the time interval. T-11395 thru T-11400 are to supersede the above surveys of common area.

63. Comparison with Maps of Other Agencies

|                  |          |      |
|------------------|----------|------|
| Placida          | 1:24,000 | 1957 |
| Punta Gorda SW   | 1:24,000 | 1957 |
| Punta Gorda SE   | 1:24,000 | 1956 |
| Port Boca Grande | 1:24,000 | 1958 |
| Bokeelia         | 1:24,000 | 1958 |
| Matlacha         | 1:24,000 | 1958 |

There are no significant differences.

64. Comparison with Contemporary Hydrographic Surveys

|        |          |      |
|--------|----------|------|
| H-8193 | 1:10,000 | 1956 |
| H-8194 | 1:10,000 | 1957 |
| H-8195 | 1:10,000 | 1960 |
| H-8196 | 1:20,000 | 1959 |
| H-8358 | 1:10,000 | 1957 |
| H-8361 | 1:10,000 | 1959 |

Shoreline and control of subject surveys was furnished prior to the hydrographic surveys and apparently no differences of importance exist.

65. Comparison with Nautical Charts

|        |          |                         |
|--------|----------|-------------------------|
| 856 SC | 1:40,000 | 1964                    |
| 857 SC | 1:40,000 | 1964                    |
| 1255   | 1:80,000 | 1962 revised to<br>1963 |

Differences exist. However, there are no items to be applied immediately.

66. Adequacy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the required accuracy for nautical charting.

Reviewed by:

L. C. Lande  
L. C. Lande

Approved by:

Charles Thurner  
Chief, Photogrammetric Branch

Chief, Nautical Chart Division

M. A. Malt  
for Chief, Photogrammetry Division

### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11397

## 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

[illegible]