

11399

Diag. Cht. No. 1255.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-1146 Office No. T-11399

LOCALITY

State Florida

General locality Gulf Coast of Florida

Locality Lacost Island to Jug Creek

Point

1953-58

CHIEF OF PARTY

H.C.Applequist, Chief of Field Party

LIBRARY & ARCHIVES

DATE February 1965

USCOMM-DC 5087

11399

DESCRIPTIVE REPORT - DATA RECORD

T-11399

PH 146

Project No. (II): 146

Quadrangle Name (IV):

Field Office (II): Tampa Fla.

Chief of Party: H. C. Applequist

Photogrammetric Office (III): Tampa Fla.

Officer-in-Charge: H. C. Applequist

Instructions dated (II) (III): 2 July 1954
Amendment 1, 9 November 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):

MAR 28 1957

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): MHW

~~Mean Sea Level~~ 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): BOKEFLIA 1934

Lat.: 26°42'19."363(595.9m)

Long.: 82°09'32."280(892.3m)

Adjusted
~~Unadjusted~~

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)

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

SHORELINE SURVEY

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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): B. T. Ogilby
W. H. Shearouse

Date: Sept. 1955

Planetable contouring by (II): Inapplicable

Date:

Completion Surveys by (II): Inapplicable

Date:

Mean High Water Location (III) (State date and method of location): Air photographic compilation
September 1955

Projection and Grids ruled by (IV): A.R. (W.O.)

Date: 25 Jan. 1955

Projection and Grids checked by (IV): A.R. (W O.)

Date: 31 Jan. 1955

Control plotted by (III): R. J. Pate

Date: 3 June 1955

Control checked by (III): M. M. Slavney

Date: 3 June 1955

Radial Plot of Stereoscopic

Date: 20 July 1955

Control extension by (III): M. M. Slavney

Stereoscopic Instrument compilation (III):
Planimetry
Contours

Date:

Inapplicable

Date:

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

Date: Nov. 1955

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

Date: Nov. 1955

Elevations on Manuscript
checked by (II) (III): Inapplicable

Date:

DESCRIPTIVE REPORT - DATA RECORD

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

PHOTOGRAPHS (III)

| Number | Date | Time | Scale | Stage of Tide |
|--------|-------------|-------|----------|---------------|
| 42829 | 1 Dec. 1953 | 12:46 | 1:10,000 | ✓ 0.6 |
| 42849 | " | 13:02 | " | " |
| 42850 | " | 13:03 | " | " |
| 42865 | " | 13:16 | " | " |
| 42896 | " | 13:41 | " | " |
| 42897 | " | 13:42 | " | " |

Tide (III)

Predicted Tables

Reference Station: Tampa Bay
Subordinate Station: Port Boca Grande, Charlotte Harbor
Subordinate Station:

| Ratio of Ranges | Mean Range | Spring Range |
|--------------------|---------------|-----------------|
| -- | 1.5 | 2.0 |
| 0.7 | 1.0 | 1.3 |

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): 14

Shoreline (More than 200 meters to opposite shore) (III): 13

~~Shoreline (Less than 200 meters to opposite shore) (III):~~

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II): 5*

Recovered: 2

Identified: 2

Number of BMs searched for (II): None

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 2

Number of Temporary Photo Hydro Stations established (III): 57

Remarks: * Three(3) Intersection Stations established.

THE FIELD INSPECTION REPORT
IS BOUND WITH T-11396

COMPILATION REPORT T-11399PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-11396.

31. DELINEATION

The graphic method was used.

The field inspection was good however the photographs were of poor scale.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was delineated as photographed.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.

The shoal and low water line was based on field inspection.

1958 photographs were used for minor corrections

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

Form 567 for landmarks was submitted to the Washington Office 14 June 1956. Form 567 for aids was submitted to the Washington Office 21 December 1955.

38. CONTROL FOR FUTURE SURVEYS

The topographic and photo-hydro stations are listed under Item 49.

39. JUNCTIONS

A junction was made with T-11398 on the west, T-11396 on the north, T-11400 on the east, T-11403 on the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with C&GS planimetric maps T-5861 and T-5862 scale 1:10,000 dated March 1943. The manuscript and maps are in fair agreement.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with C&GS Chart 474, scale 1:40,000, published July 1947 and corrected to 6 April 1953. The two are in fair agreement.

The maps listed under Item 46 appear to be the source of topography and the same differences are to be found.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None.

R. R. Wagner
R. R. Wagner

Approved and Forwarded:

H. C. Applequist
H. C. Applequist
Chief of Party

48. GEOGRAPHIC NAME LIST

The following are names taken from the maps listed under Item 46.

ALLEN CREEK

BACK BAY

BOKEELIA

BOKEELIA ISLAND

CHARLOTTE HARBOR

FLORIDA

JUG CREEK

JUG CREEK POINT

LACOSTA ISLAND

LITTLE BOKEELIA ISLAND

LITTLE BOKEELIA BAY

PATRICIO ISLAND

PELICAN BAY

PELICAN PASS

PINE ISLAND

PINE ISLAND SOUND

PUNTA BLANCA ISLAND

STATE ROAD 767

TOM BAY

A. J. Wrought
Geog. Names Sec.

49. NOTES FOR THE HYDROGRAPHER

The following is a list of fifty-seven(57) photo-hydro stations with pertinent data. Note "A" means the station is marked by a 1x2" stake, usually projecting one to two feet and marked "U. S. Government" and in some cases the number of the point. A lath with a small flag is near by as a witness marker:

9901- The center of a small mangrove bush is a grass line. Note A Photo 42865.

9902- S E gable of house on pier. Photo 42865.

9903- S W corner of wrecked barge on shore. Marked with slat and crayon. Photo 42865.

9904- Point of mangrove on south side of bite. Note A Photo 42865.

9905- Prominent point of mangrove. Note A Photo 42865.

9906- Point of mangrove N E corner of Island. Note A Photo 42865.

9907- North gable of house on pier at Bokeelia. Note A Photo 42865.

9908- N W corner of pier. Marked with crayon. Photo 42865.

9909- Center of a bush on a sand and oshell beach. Note A Photo 42896.

9910- East gable of small house. Photo 42896.

9911- Center of a mangrove bush in the water. Note A Photo 42896.

9913- The center of a mangrove bush in the water. Note A Photo 42896.

9914- The center of the part of a mangrove bush over-hanging MFTL. Note A Photo 42896.

9916- The most eastwardly of ~~two~~ points of mangrove. Note A Photo 42896.

9917- A pronounced point of mangrove. Note A Photo 42896.

9918- Small sharp point of 4 foot bluff which is covered by loose rocks, 10 feet from MHWL. Marked Note A Photo 42828.

9919- North tip of mangrove on south side of small indentation in mangrove trees, 5 1/4 feet in from MHWL. Note: The shoreline is building here and the water no longer reaches the trees, except at storm tide. Marked Note A Photo 42828.

9920- Tip of mangrove at southeast side of cove. Marked Note A Photo- 42828.

9922- Small mangrove bush in center of short line of mangrove bushes at open beach between larger mangrove trees. Marked Note A Photo 42865.

9923- West tip of mangrove bush on east side of entrance to small pond. Entrance is bare at low water. Marked Note A Photo 42865.

9925- Lone umbrella-like mangrove bush on small sand beach. Marked Note A Photo 42865.

9926- Tip of mangrove. Marked by stake with flag and two pieces of cloth tied to tree limb. Photo 42865.

9927- Tip of mangrove on south side of small indentation in mangrove shoreline. Marked by stake with flag and two pieces of cloth tied to limb of tree. Photo 42865.

9928- Sand spot in one foot of water at MHWL, abreast of large house. Marked Note A Photo 42866.

9930- Small cupola atop large yellow house. The highest part of house and covered with red roof tile. Photo 42866.

9931- Small point on mangrove shoreline. Marked by two strips of cloth tied to tree limb and stake with flag. Photo 42866.

9932- S W tip of mangrove clump about 30 feet offshore. Marked by 2 strips of cloth tied to limbs and stake with flag. Photo 42865.

9933- Lone mangrove bush. Marked Note A Photo 42865.

9934- N tip of mangrove point on south side of entrance to creek
Marked by two pieces of cloth tied to limbs and stake.
Photo 42866

9935- S tip of mangrove where mangrove shoreline makes turn
to west. Marked Note A Photo 42829.

9936- Small point of mangrove along shoreline. Marked Note A
Photo 42829.

9937- Low mangrove limb which extends several feet out over
water. Marked by two strips of cloth tied to limb and a stake
under limb. Photo 42829.

9938- Low limb of mangrove point which extends out several
feet. Marked Note A Photo 42828.

9939- Mangrove bush of N W end of line on east side of telephone
line clearing and about 30 feet from telephone pole. Marked
Note A Photo 42829.

9940- N tip of small mangrove point just west of large rounded
mangrove point. Marked Note A and strip of cloth tied to
limb. Photo 42849.

9941- N tip of mangrove limb which extends seaward beyond
other mangrove shoreline, and on rounded point. Marked Note
A and with strip of cloth tied to limb. Photo 42849.

9942- Seaward tip of low mangrove limb which is under high
limb, and about 25 feet west of two high limbs which also
project seaward ^{several} feet from mangrove shoreline. Marked Note A
and strip of cloth tied to limb. Photo 42849.

9943- Seaward tip of low mangrove limb which extends several
feet out from mangrove shoreline. Marked by stake with flag
and a piece of cloth tied to limbs. Photo 42849.

9944- Center of small house near edge of bulkhead and pier
(house is about 10 feet x 10 feet in Little Bokeelia Bay.
Photo 42865.

9945- Power pole in water near shore, Marked by white flag tied
around pole (Located by theodolite fix)

9946- Pine Island Sound Daybeacon 34 (Located by theodolite cuts)

9947- Pine Island Sound Daybeacon 35 (Located by theodolite cuts)

9949- Seaward tip of mangrove limb. Marked by pieces of cloth tied to limbs. Photo 42865.

9950- Tip of mangrove that extends farthest seaward..Marked by strips of cloth tied to limb. Photo 42865.

9951- West end (tip) of mangrove on point. Marked Note A . Photo 42865.

9952- Seaward end of mangrove limb that projects seaward the farthest in area. Marked by strips of cloth tied to limbs. Photo 42865.

9953- Tip of low hanging mangrove limb. Marked by strips of cloth. Photo 42865.

9954- Tip of mangrove limb that is about 4 feet above water. Marked by strips of cloth tied to limb.

9955- Power line pole near middle of bay. Photo 42865 and 42864.

9956- Power line pole at north side of bay. Photo 42864 and 42865.

~~9955- Power line pole at north side of bay. Photo 42864 and 42865.~~

9957- South gable of green house with gray roof. There is a tall TV aerial at station site. Photo 42896.

9958- South gable of tin roof house. Photo 42896.

9959- S E corner of tar papered covered house. Photo 42896.

9960- Center of stern of beached boat, originally green. Not flagged. Photo 42896.

9961- Palmetto frond covered open beach cabana. Not marked. Photo 42896.

9962- Pine Island Sound Daybeacon 37X

9963- Pine Island Sound Daybeacon 38X

Following are two(2) recoverable topographic stations:

EDNA, 1955
PIT(1943) 1955

1.2
0.8
1.0
0.2
0.3

TIDE COMPUTATION

PROJECT NO. Ph-60446 T. 11399

Time and date of exposure Dec 1955 1325 Reference station Tampa Fla Mean range 1.0
 Date of field inspection _____ Subordinate station Port Boca Grande, Charlotte Harbor Ratio of ranges 0.7

| | Time | | Height feet | Height x Ratio of ranges |
|-----------------------------|------|----|----------------|-----------------------------|
| | h. | m. | | |
| High tide | 10 | 06 | 1.0 | 0.7 |
| Low tide | 14 | 13 | 0.8 | 0.6 |
| Duration of rise or fall | 4 07 | | 0.1 | |

| | Time | | High tide at Ref. Sta. | Time difference | Corrected time at Subordinate station |
|--|------|----|------------------------|-----------------|--|
| | h. | m. | | | |
| High tide at Ref. Sta. | 11 | 41 | | | |
| Time difference | | | | -1 35 | |
| Corrected time at Subordinate station | 10 | 06 | | | |

| | Time | | Low tide at Ref. Sta. | Time difference | Corrected time at Subordinate station |
|--|------|----|-----------------------|-----------------|--|
| | h. | m. | | | |
| Low tide at Ref. Sta. | 15 | 48 | | | |
| Time difference | | | | -1 35 | |
| Corrected time at Subordinate station | 14 | 13 | | | |

| | h. | m. | feet | Photo. No. |
|--------------------------------|----|----|------|------------|
| Time H. T. or L. T. | 14 | 13 | | |
| Required time | 13 | 25 | 0.6 | |
| Interval | 47 | | 0.6 | |
| Time H. T. or L. T. | | | | |
| Required time | | | | |
| Interval | | | | |
| Time H. T. or L. T. | | | | |
| Required time | | | | |
| Interval | | | | |
| Time H. T. or L. T. | | | | |
| Required time | | | | |
| Interval | | | | |
| Time H. T. or L. T. | | | | |
| Required time | | | | |
| Interval | | | | |

PHOTOGRAMMETRIC OFFICE REVIEW

50.

T- 11399

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

CONTROL STATIONS

unclassified
 4a. Classification label unclassified

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.A.G. 7. Photo hydro stations J.A.G. 8. Bench marks xx
 9. Plotting of sextant fixes xx 10. Photogrammetric plot report WAR 11. Detail points J.A.G.

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines xx 32. Public land lines xx

MISCELLANEOUS

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

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

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:

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 Myers.

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 |
| Bokelia | 1:24,000 | 1958 |
| Natlacha | 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 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. Lewis
L. C. Lewis

Approved by:

Charles Thomas
Chief, Photogrammetric Branch Chief, Nautical Chart Division

M. E. Matle
for Chief, Photogrammetry Division

