

11416

Original

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-11416
LOCALITY	
State	FLORIDA
General locality	ESTERO BAY
Locality	MULLOCK CREEK
1953 - 1961	
CHIEF OF PARTY	
V. R. Sobieralski Tampa District Office	
LIBRARY & ARCHIVES	
DATE	

USCOMM-DC 5087

11416

DESCRIPTIVE REPORT - DATA RECORD

T -11416

Project No. (II): PH-146

Quadrangle Name (IV):

Field Office (II): N. Ft. Myers, Fla.

Chief of Party: V. R. Sobieralski

Photogrammetric Office (III): Tampa, Fla.

Officer-in-Charge: V. R. Sobieralski

Instructions dated (II) (III): 2 July 1954

Amendment 1, 9 November 1954

Supplement 1, 17 December 1956

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):

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 low water~~ 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): ESTERO NORTH BASE 1934

Lat.: $26^{\circ}26'29.661''$ (912.8 m)

Long.: $81^{\circ}50'03.078''$ (85.3 m)

Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State: Florida

Zone: West

Y= 766,189.16 ✓

X= 554,256.70 ✓

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.

DESCRIPTIVE REPORT - DATA RECORD

SHORELINE

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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): George E. Varnadoe Date: March 1961

Planetable contouring by (II): Inapplicable Date:

Completion Surveys by (II): Inapplicable Date:

Mean High Water Location (III) (State date and method of location): Date of photography 22 Nov. 1960
Air photo compilation

Projection and Grids ruled by (IV): A.R. (W.O.) Date: Apr. 1955

Projection and Grids checked by (IV): A.R. (W.O.) Date: Apr. 1955

Control plotted by (III): I. I. Saperstein Date: Jun. 1959

Control checked by (III): R. J. Pate Date: Jun. 1959

Radial Plot or Stereoscopic
~~Control extension~~ by (III): R. R. Wagner Date: July 1959

Planimetry
Stereoscopic Instrument compilation (III): Inapplicable Date:
Contours Date:

Manuscript delineated by (III): R. J. Pate Date: June 1961

Photogrammetric Office Review ^{of compilation} by (III): R. R. Wagner Date: June 1961

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

DESCRIPTIVE REPORT - DATA RECORD

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

4

Number	Date	Time	Scale	Stage of Tide
60W4441	22 Nov. 1960	No time	1:10,000	
60W4442	" "	available	"	
60W4443	" "		"	
43060	2 Dec. 1953	12:09	"	1.3
43061	" "	"	"	"
43062	" "	12:10	"	"

Predicted Tide (III)

Reference Station: St. Marks River Entrance
Subordinate Station: Punta Rassa, San Carlos Bay
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
-	2.4	3.1
0.7	1.7	2.3

Washington Office Review by (IV):

Date:

Final Drafting by (IV): P. W. Leikhim (Tampa District Office)

Date: July 1961

Final Drafting Reviewed by: I. I. Saperstein (Tampa Dist. Off.)

July 1961

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 6

Shoreline (More than 200 meters to opposite shore) (III): 4

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

Control Leveling - Miles (II): Inapplicable

Number of Triangulation Stations searched for (II): 1

Recovered: 1

Identified: 1

Number of BMs searched for (II): None

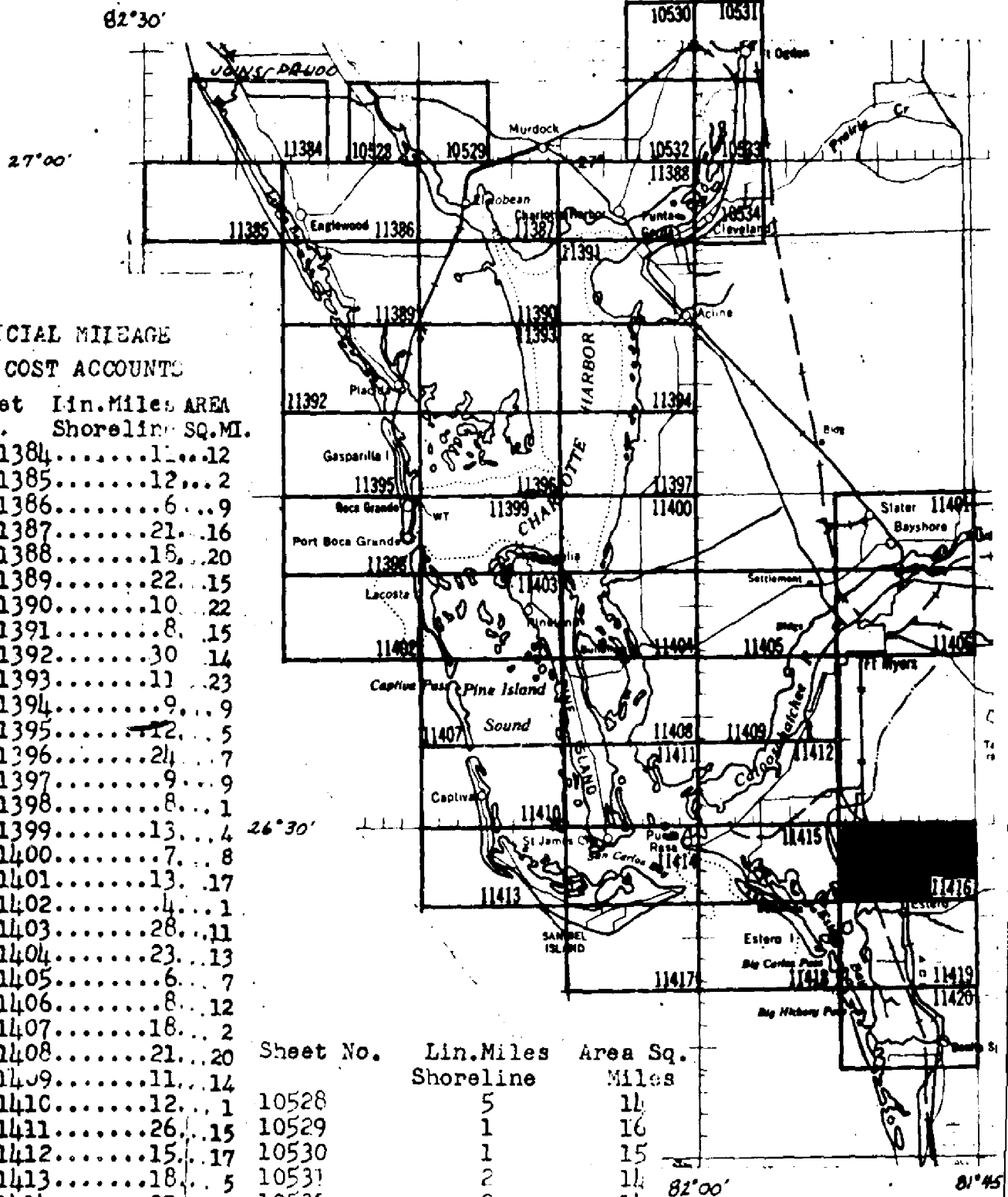
Recovered: 0

Identified: 0

Number of Recoverable Photo Stations established (III): None

Number of Temporary Photo Hydro Stations established (III): 8

Remarks:



OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet Lin. Miles AREA
Nos. Shoreline SQ. MI.

T-11384	11	12
T-11385	12	2
T-11386	6	9
T-11387	21	16
T-11388	15	20
T-11389	22	15
T-11390	10	22
T-11391	8	15
T-11392	30	14
T-11393	11	23
T-11394	9	9
T-11395	12	5
T-11396	24	7
T-11397	9	9
T-11398	8	1
T-11399	13	4
T-11400	7	8
T-11401	13	17
T-11402	4	1
T-11403	28	11
T-11404	23	13
T-11405	6	7
T-11406	8	12
T-11407	18	2
T-11408	21	20
T-11409	11	14
T-11410	12	1
T-11411	26	15
T-11412	15	17
T-11413	18	5
T-11414	27	11
T-11415	23	19
T-11416	4	6
T-11417	6	3
T-11418	11	4
T-11419	18	12
T-11420	17	12

Totals 540 393

Sheet No.	Lin. Miles Shoreline	Area Sq. Miles
10528	5	11
10529	1	16
10530	1	15
10531	2	11
10532	2	11
10533	6	12
10534	5	13
Totals	22	96
	540	393
Grand Totals	562	191

FIELD INSPECTION REPORT
is submitted with T-11418

COMPILATION REPORT
T-11416

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-11418

31. DELINEATION

Graphic method was used.

Several two-cut detail points were used in delineating in the vicinity of Estero due to inadequate photographic coverage.

The 9-lens photographs taken in Dec. 1953 were of relatively poor scale. Much of the area, in particular that east of the dismantled R.R. was delineated by use of the projector.

The single-lens photographs of 1960 were of fair scale. They were used to supplement the 9-lens photographs in shoreline delineation and in interpretation of vegetation.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate. Structures such as piers and boat-houses were shown as noted.

Low-water and shoal lines were based on office interpretation, supplemented in part with field inspection notes.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

There are no landmarks or aid to navigation.

38. CONTROL FOR FUTURE SURVEYS

Eight photo-hydro points were established and are listed under Item 49. No topographic stations were established.

39. JUNCTIONS

A satisfactory junction was made with T-11415 on the west and T-11419 on the south and are in agreement. Junction with USGS FORT MYERS SE, FLA. quadrangle to the north is also in agreement. This survey lies within the northwest part of USGS ESTERO, FLA. quadrangle.

40. HORIZONTAL AND VERTICAL ACCURACY

Two-cut intersections were used to control the detail at Estero along the southern junction with T-11419 between Long. $81^{\circ}48'30''$ to Long. $81^{\circ}49'15''$.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with G.S. quadrangle ESTERO FLA. scale 1:24,000 dated 1958. They compare favorably. The latest Bureau map is aerial compilation No. 4389 dated 1927. It is considered outdated for comparison purposes.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with C&G Chart No. 473, scale 1:40,000 corrected to 23 Feb. 1959. The comparison is favorable.

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ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

William A. Rasure

for R. J. Pate
Carto-Photo Aid

Approved and Forwarded:

V. Ralph Sobieralski

V. Ralph Sobieralski
Tampa District Officer

48. GEOGRAPHIC NAME LIST

ESTERO
ESTERO BAY
ESTERO RIVER

FLORIDA

HENDRY CREEK

LEE COUNTY

MUD CREEK
MULLOCK CREEK

NEEDMORE POINT

TAMIAMI TRAIL
TENMILE CANAL

U.S. 41

*Names approved
R. J. Wraight
3-25-65*

49. NOTES FOR THE HYDROGRAPHER

The following is a list of photo-hydro stations for use of the hydrographer:

Note A - 1x2x4 stake painted white with U.S. Govt stenciled in black driven in ground at station site.

Note B - White cloth strip tied at or near station site.

Note C - 1x2x8 stake with white flag driven in ground at station site.

1601 - A lone 5 ft. mangrove bush on oyster bar - a larger bush on same bar is 220 ft. S and a line of mangrove bushes begin 240 ft. N.
Note A&B Cut limbs Photo 60W 4442.

1603 - The center of a mangrove tree at NW end of small mangrove island - most of the mangrove on this island is dead - Note A nailed to tree at Sta. site - Note B - Cut limbs Photo 60W 4442

1604 - The S tip of a half moon shaped mangrove island at the mouth of a creek. Note B&C Photo 60W 4442.

1605 - The center of the westernmost bush of a line of mangrove. Cut limbs - Note A & B Photo 60W 4442.

1606 - The northernmost and largest of 3 small mangrove bushes in line on an oyster bar - Limbs trimmed. Note A & B Photo 60W 4442

1607 - The center of a lone mangrove bush about 10 ft. high on an oyster bar. This is the easternmost bush on this bar. Two mangrove bushes that are almost together are about 70 ft. W - Cut limbs. Note A nailed in center - Note B Photo 60W 4442

1608 - The offshore of three low mangrove bushes that are about 20 ft. E of a mangrove point - A dead mangrove limb is lodged between the outer two - Note A & C. Photo 60W 4442

1609 - A dead mangrove snag on the SE end of a mangrove point - snag is about 10 ft. high - Note A nailed horizontal 4 ft. above HW. Note B tied around snag. Photo 60W 4442.

50.

PHOTOGRAMMETRIC OFFICE REVIEW OF ADVANCE MANUSCRIPT

T- 11416

1. Projection and grids WHS 2. Title WHS 3. Manuscript numbers WHS 4. Manuscript size WHS1a Classification label unclassified

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

33. Geographic names WHS 34. Junctions WHS 35. Legibility of the manuscript WHS 36. Discrepancy overlay XX 37. Descriptive Report WHS 38. Field inspection photographs WHS 39. Forms WHS
40. William H. Shearouse William A. RasurReviewer
William H. ShearouseSupervisor, Review Section or Unit
for Milton M. Slavney

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-11413 through T-11420
June 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-5865	1:10,000	1943
T-5866	1:10,000	1943
T-5867	1:10,000	1943
T-5868	1:10,000	1943
T-5869	1:10,000	1943
T-5870	1:10,000	1943
T-4389	1:20,000	1927

There are cultural and shoreline changes due to the differences in the time interval. T-11413 through T-11420 are to supersede the above surveys of common area.

63. Comparison with Maps of Other Agencies

Fort Myers SW	1:24,000	1958
Fort Myers Beach	1:24,000	1958
Wulfert	1:24,000	1958
Sanibel	1:24,000	1958
Estero	1:24,000	1958
Bonita Springs	1:24,000	1958

Due to new construction there are cultural and shoreline differences.

64. Comparison with Contemporary Hydrographic Surveys

H-8598	1:10,000	1961
H-8363	1:20,000	1961
H-8632	1:10,000	1961

Shoreline and control was furnished prior to the hydrographic surveys.

65. Comparison with Nautical Charts

856 SC	1:40,000	1964
1255	1:80,000	1962 revised to 1963

65. Comparison with Nautical Charts (CONTINUED)

Differences exist. However there are not items to be applied immediately.

66. Adequacy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the requirements for adequacy and accuracy.

Reviewed by:

L. C. Lande
L. C. Lande

Approved by:

Charles L. Lenn
Chief, Photogrammetric Branch

Chief, Nautical Chart Division

J. E. Waugh 9/15/65
Chief, Photogrammetry Division

