

11418 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-146 Office No. T-11418

LOCALITY

State FLORIDA

General locality ESTERO BAY

Locality BIG CARLOS PASS

1953 - 1961

CHIEF OF PARTY

V.R. Sobieralski, Tampa District Office

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DATE _____

USCOMM-DC 5087

11418

DESCRIPTIVE REPORT - DATA RECORD

T -11418

Project No. (II): PH-1146

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): BOOB 2 1955

Lat.: $26^{\circ}24'24.448''$ (752.4 m)

Long.: $81^{\circ}53'46.507''$ (1288.9 m)

Adjusted
~~Coordinates~~

Plane Coordinates (IV):

State: Florida

Zone: West

Y= 753,526.17

X= 533,958.48

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.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

SHORELINE SURVEY

COMM. DC-57842

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): G. E. Varnadoe

Date: May 1961

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
Dates of photographs: 22 Nov. 1960

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): R. J. Pate

Date: Jun. 1959

Control checked by (III): I. I. Saperstein

Date: June 1959

Radial Plot or Stereoscopic

Date: July 1959

Control extension by (III): R. R. Wagner

Planimetry
Stereoscopic Instrument compilation (III): Inapplicable
Contours

Date:

Date:

Manuscript delineated by (III): R. E. Smith Jr.

Date: June 1961

of compilation
Photogrammetric Office Review 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 camera and single-lens cameras "S" and "W"

Number	Date	Time	Scale	Stage of Tide
58S1575 A thru 1578A	21 Oct. 1958	13:10	1:10,000	0.5
60W1429 thru 1431	22 Nov. 1960	Camera clock stopped	"	---
43041	2 Dec. 1953	11:47	"	Radial Plot
43042	" "	11:48	"	Only
43043	" "	"	"	

Predicted Tide (III)

Reference Station: St. Marks River Entr.

Subordinate Station: Punta Rassa, San Carlos Bay

Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
-	2.4	3.1
0.71	1.7	2.3

Washington Office Review by (IV):

Date:

Final Drafting by (IV): V. P. Cackowski (Tampa District Office)

Date: June 1961

Final Drafting Reviewed by: W. H. Shearouse (Tampa District Office)

Date: July 1961

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 4

Shoreline (More than 1200 meters from opposite shore) (III): 11

~~Shoreline (Less than 1200 meters from opposite shore) (III):~~

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II): 2

Recovered: 2

Identified: 2

Number of BMs searched for (II): None

Recovered: 0

Identified: 0

Number of Recoverable Photo Stations established (III): 4

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

Remarks:

Charlotte Harbor, FLORIDA

82°30'

27°00'

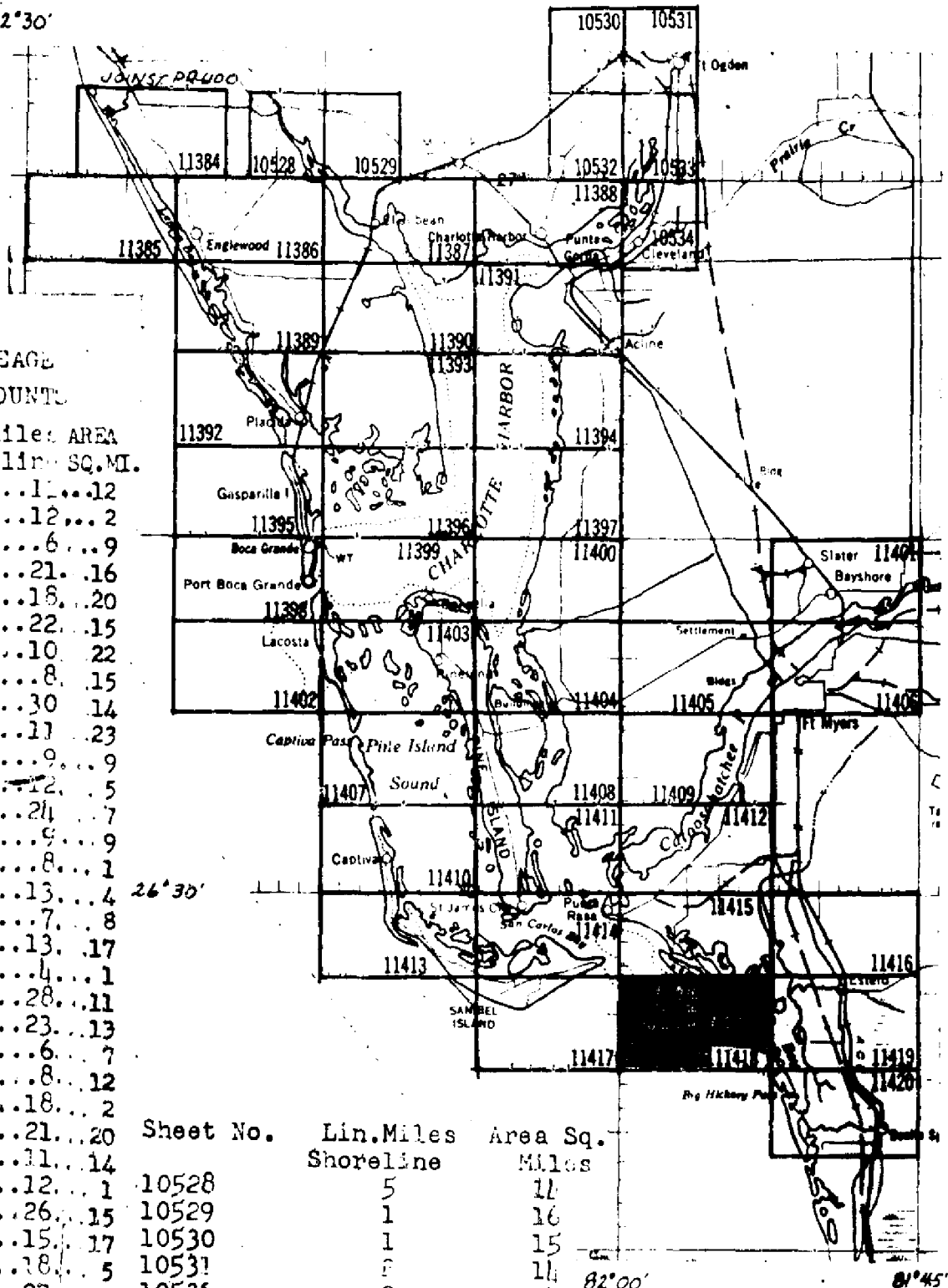
OFFICIAL MILEAGE
FOR COST ACCOUNTSSheet Lin. Miles AREA
Nos. Shoreline SQ. MI.

T-11384	11	12
T-11385	12	2
T-11386	6	9
T-11387	21	16
T-11388	18	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	1	14
10532	2	11
10533	6	12
10534	5	13

Totals	22	98
	540	393

Grand Totals 562 191



FIELD INSPECTION REPORT
PROJECT PH-1146
SHEETS T-11415, 11416, 11418, 11419 and 11420

2. AREAL FIELD INSPECTION

Except for Estero Island, on which Fort Myers Beach is located, and Little Hickory Island, where Bonita Beach is located, and the small town of Bonita Springs on Imperial River, the greater part of the land area is undeveloped.

Of the two beaches, Fort Myers Beach is the larger and best developed. It is typical of most of the resort beaches along the Florida Gulf Coast. Northern visitors fill the many hotels, motels, apartments and cottages during the winter months. During the summer months, these are occupied to a lesser degree by visitors from nearby inland Florida towns.

Swimming, boating, fishing and other water sports are the main attractions.

A commercial shrimp fleet operates from here during the season.

The island supports a shopping center with several stores, restaurants, etc.

Bonita Beach is being rebuilt, since being almost cleared of all man-made structures by the hurricane of September 1960. This beach is comprised mostly of private homes.

Both beaches are served by State highways that dead end on each beach. Bonita Springs is served by the Atlantic Coast Line Railroad and U. S. Highway 41.

The mainland is flat and poorly drained and is spotted with ponds, intermittent ponds and some marsh. Except along the outer beaches, the water areas are bounded mostly by mangrove swamps. Sand flats are generally found on the mainland side of the mangrove. These flats are usually bare and are subject to flooding by wind tides.

A part of three flights of photographs were used: nine-lens dated 1953, single-lens dated 1958 and 1960. The photographs of the latest date were used for the area covered.

3. HORIZONTAL CONTROL

All Coast and Geodetic Survey control was searched for and reported on form 526. The only stations identified were those deemed essential by the compilation office for control of the plot.

The following stations were reported lost or destroyed:

CENTER LINE BRIDGE, 1928	CARLOS, 1928
MIX, 1928	KANT, 1928
LINE, 1928	SPRING, 1928
MOUND KEY, 1884	

Several stations of other bureaus were recovered and identified where no C&GS stations existed. Those recovered are:

RR and Highway Crossing USGS
TT 81 WTM USGS
TT 86 WKM USGS
TT 64 WKM USGS
TT 87 WKM USGS
TT 88 WKM USGS

4. VERTICAL CONTROL

There are no tidal bench marks within the limits of these maps.

5. CONTOURS AND DRAINAGE

Contours are inapplicable.

All drainage of any importance can be delineated from the photographs. Where the streams have been shown and classified, most canals and ditches have been labeled.

6. WOODLAND COVER

Numerous areas of woodland have been classified as T, Sw or Mg. It is believed that enough such areas have been classified to serve as a criterion for the compiler.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high-water line was thoroughly inspected and measurements taken when necessary; i.e., along the outer beaches. The apparent shoreline is obvious as photographed and has been labeled or delineated. The low-water line has been shown by symbol where visited at low-water and is shown by the approximate low-water line symbol in other areas along the sand shoals.

All piers, wharves and other shoreline structures have been labeled on the photographs.

8. OFFSHORE FEATURES

All offshore features were visited and labeled when discernible on the photographs. All others were located by sextant fixes on photo-hydro stations and photo points, except for some brush and small tree tops on the shallows and shoals of Estero Bay that may be covered at MHW. These tree tops, etc. were torn from the trees by the hurricane of September 1960 and are sanded on the shallows and shoals. They are in relatively shallow water and some are covered at MHW. It is reported that some small motor boats have struck some of these when submerged.

The channels in Matanzas Pass, Estero Bay and a part of Fish Trap Bay are well marked by private aids to navigation. These aids range from four-inch by four-inch to ten-inch round piling and most have pointers. A total of 148 fixes was taken at these aids and at piling, trees, etc. Each fix is recorded on a loose-leaf card and each carries a description of the object located.

One of the buildings washed from Bonita Beach by the hurricane of September 1960 lodged, and remains on a bar in the inlet from Big Hickory Pass. This appears on photograph 60W-4427.

9. LANDMARKS AND AIDS

Only one landmark exists. It is the elevated water tank at Fort Myers Beach. It is reported on form 567.

Two federal aids to navigation (daybeacons) are in T-11415. They were located by sextant fixes and cuts taken on triangulation and photo-hydro stations. They are reported on form 567.

10. BOUNDARIES, MONUMENTS AND LINES

Inapplicable.

11. OTHER CONTROL

The following are topographic stations that have been established. Form 524 was submitted for each station.

BRAD 1961	GLAD 1961
WALL 1961	PASS 1961
FILL 1961	LEST 1961
ROAD 1961	PINE 1961
SAND 1961	TT 60 1961

Photo-hydro stations were selected and identified throughout the area. Except for large natural objects, such as house gables, piers, etc., they are marked. Each station was described and it is believed all can be recovered, unless destroyed, any time in the next two years.

12. OTHER INTERIOR FEATURES

All roads were ridden out and classified in accordance with the instructions. Roads, canals, etc., constructed since photographs were located by planetable methods and classified.

Buildings were classified in accordance with the instructions.

Two overhead power lines over navigable water in T-11415 were located. One is over Matanzas Pass alongside the highway bridge to Estero Island and the other crosses Hendry Creek. The wires of the one crossing Hendry Creek are discernible on the photographs and the end poles were located for the one over Matanzas Pass.

13. GEOGRAPHIC NAMES

This will be the subject of a special report to be submitted at a later date.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

There are no special reports except as mentioned under item 13. All data is listed on the transmittal letter.

Respectfully submitted

William A. Rasur
for George E. Varnadoe
Supervisory Cartographer

//

PHOTOGRAMMETRIC PLOT REPORT

21. AREA COVERED

T-11401, T-11405, T-11406, T-11409, T-11412, T-11415, T-11416 and T-11418 thru T-11420.

The sketch on page 13 shows the arrangement of manuscripts, the identified control, index of control and photograph centers.

22. METHOD

RADIAL PLOT

Map Manuscripts and Base Grids: The projections are 03'45" in latitude and 07'30" in longitude.

The plot was run on joined manuscripts.

Photographs: The nine-lens photographs taken 2 December 1953 were used.

Templets: Vinylite templets were made from nine-lens photographs using 1953 master templet for photos from 40261 thru 43156.

Closure and adjustment to control: The plot was run with conventional methods.

A satisfactory junction was made with Bridge Points of PH-5806.

23. ADEQUACY OF CONTROL

The control was adequate.

A number of natural objects were identified on 1958 single-lens photographs that did not appear on the 1953 nine-lens photographs. The identified control points on the 1958 photographs were transferred to the 1953 photographs by stereoscopic methods with good results.

24. SUPPLEMENTAL DATA

None used.

25. PHOTOGRAPHY

The coverage, definition and overlaps was adequate.

Chamber No 1 of photograph 43021 is badly twisted. The photograph was used with caution.

26. GENERAL

Dates of completion are:

T-11401 30 September 1960

T-11405 26 September 1960

T-11406 29 September 1960

T-11409 27 September 1960

T-11412 28 September 1960

T-11415 6 August 1959

T-11416 28 July 1959


T-11418 27 July 1959

T-11419 24 July 1959

T-11420 23 July 1959


R. R. Wagner
Cartographer (Photo)

Approved and Forwarded:


V. Ralph Sobieralski
Tampa District Officer

81° 52' 30"

81° 45' 26" 45"

82° 00'

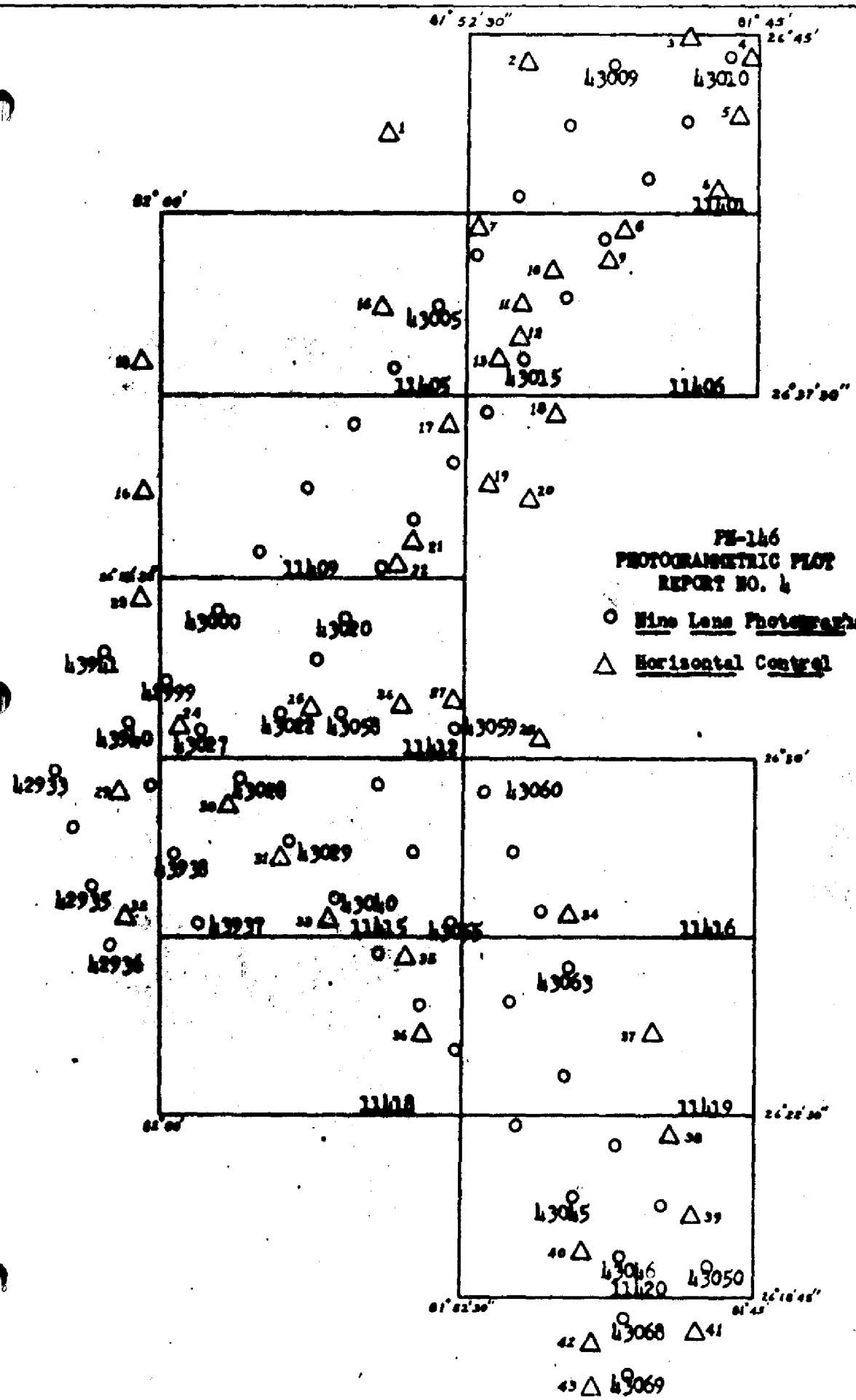
26° 37' 30"

PH-146

PHOTOGRAMMETRIC PLOT
REPORT NO. 4

○ Wide Lens Photographs

△ Horizontal Control



IDENTIFIED CONTROL

1. AF 22(FGS) 1937
2. SLATER BLACK MUNICIPAL TANK 1934
3. BAYSHORE 1955
4. TT 28 EEB USGS 1952
5. HALGRIM 1937
6. FORT MYERS LOOKOUT TOWER 1956
7. FORT MYERS R E A RADIO MAST 1955
8. AF 15(FGS) 1934
9. TICE MUNICIPAL WATER TANK 1955
10. YEL 1927
11. FORT MYERS T V STATION WINK 1955
12. FORT MYERS MUNICIPAL INCINERATOR STACK 1934
13. FORT MYERS NEW WATER TANK 1937
14. AIRWAY 1955
15. PINE ISLAND LOOKOUT TOWER 1955
16. TT 125 ERS USGS 1952
17. FORT MYERS COUNTRY CLUB WATER TANK 1955
18. FORT MYERS RADIO STATION WMYR SOUTH WEST MAST 1955
19. PF 2 1955
20. PAGE ARMY AIR FIELD AIRWAY BEACON 1945
21. SHAD 1936
22. NIGGER 1927
23. TT 126 ERS USGS 1952
24. TOM 1927
25. D 38 USGS 1952

IDENTIFIED CONTROL

26. TT 77 WTM USGS 1952
27. TOWERIDGE 1934
28. TT 71 WTM USGS 1952
29. CABLE 1927
30. CONTROL POINT "A" 1956
31. ARCH 1928
32. SANIBEL ISLAND LIGHT HOUSE CENTER 1909
33. FORT MYERS BEACH MUNICIPAL WATER TANK 1955
34. ESTERO NORTH BASE 1934
35. TT 81 WTM USGS 1952
36. BOOB 2 1955
37. TT 86 WKM USGS 1952
38. TT 64 WKM USGS 1952
39. BONITA (ESTERO SOUTH BASE) 1928
40. WIGGINS 1934
41. SHIFT 1928
42. TT 88 WKM USGS 1952
43. TT 87 WKM USGS 1952

COMPILATION REPORT
T-11418

31. DELINEATION

The graphic method was used.

The photographs and field inspection were satisfactory.

Field inspection was done on the 1960 single-lens photographs. These supplemented by the 1958 single-lens, were used for delineation. The 1953 nine-lens photographs were used to lay the radial plot.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was delineated from the field inspection notes.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.

The low-water and shoal lines are based on the inspector's notes.

36. OFFSHORE DETAILS

No unusual problems were encountered.

37. LANDMARKS AND AIDS

There are no landmarks or aids.

38. CONTROL FOR FUTURE SURVEYS

Four forms 524 are submitted with the data for this manuscript. A list of recoverable topographic and photo-hydro stations, with descriptions for the latter, are included in paragraph 49.

39. JUNCTIONS

Junctions have been made with T-11415 to the north, T-11417 to the west and T-11419 to the east. There is no contemporary survey to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with C&GS compilation of aerial photographs number 4389, scale 1:20,000 dated 1927 and USGS quadrangle FORT MYERS BEACH FLA, scale 1:24,000 dated 1958. Agreement with USGS quadrangle is good but the C&GS 1927 compilation is considered outdated.

47. COMPARISON WITH NAUTICAL CHARTS


Comparison was made with C&GS Chart 473, scale 1:40,000 revised 23 Feb. 1959. The manuscript is in fair agreement.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

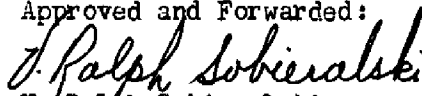
None.

ITEMS TO BE CARRIED FORWARD

None.


Robert R. Wagner
Cartographer

Approved and Forwarded:


V. Ralph Sobieralski
Tampa District Officer

48. GEOGRAPHIC NAME LIST

The names are taken from the USGS quadrangle FORT MYERS BEACH, FLA.

BIG CARLOS PASS
BLACK ISLAND

CARLOS POINT
COON KEY

ESTERO BAY
ESTERO ISLAND

FLORIDA

GULF OF MEXICO

HORSESHOE KEYS

JULIES ISLAND

LOVERS KEY

OSTEGO BAY

STARVATION KEY
STATE 865

*Names approved
A.J. Wrought
3-25-65*

49. NOTES FOR THE HYDROGRAPHER

The following is a list of topographic and photo-hydro stations:

GLAD 1961 LEST 1961 PINE 1961 PASS 1961

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 into ground at station site.

1516 - The southwest corner of the west wing of a U-shaped motel painted white with blue trim on offshore face - a low, short L-shaped wing of concrete block projects off this corner. Two palms grow between the wings 135 feet northeast of high water line. Photo 60-W-4432.

1801 - The southeast corner of a small white cottage which is at the northwest end of a large vacant lot. Behind this cottage is a larger light yellow cottage with Miami windows. This is the easterly of 5 small cottages closely spaced - with palms in front. Not marked - photo 60-W-4432.

1802 - The offshore gable of a small red cottage. This is in a row of several cottages but is the only one painted red. It has an open porch in front with a palm growing in about the center. Not marked - photo 60-W-4432.

1803 - The northwesterly of two palms that about equal distance between houses and the high water line - 50 feet northeast of high water line. The signal palm is fairly straight and is in front of a light green house. The other palm is about 100 feet southeast and has a 90° crook near root system. Cloth strip around trunk - photo 60-W-4431.

1804 - The southeast end of a wooden seawall that joins a concrete seawall about 150 feet to the northwest. The end is in front of a green shingled house. Just behind the seawall are pine stumps and rocks. Note A and C nailed to end. Photo 60-W-4431.

1805 - The southeast corner of a white house with pink trim and with almost solid windows across front. Rock groins extend seaward from each side of house. This house is nearest Gulf of any in area (being repaired). Not marked - photo 60-W-4431.

- 1806 - The southeast one of 3 palms that form a triangle in a vacant lot about 180 feet northwest of the northwest end of a concrete seawall which is in front of a large white house. (Just northwest of this house is a light green house under repair). 60 feet northeast of high water line. This palm is nearest water of any in area. Note A & B nailed to trunk. Photo 60-W-4431.
- 1807 - A small lone seagrape bush seaward of a vacant lot about 400 feet northwest of a group of 6 gray cottages "THE SANDRIFT"; 30 feet northeast of high water line, in a white sand area, about 60 feet north of a large oblong seagrape patch. Note B & C - photo 60-W-4431.
- 1808 - A lone 8-inch diameter 45-foot australian pine in a vacant lot, 45 feet from high water line, about 500 feet north of a large pier in ruins from which the inshore end has been destroyed. Lower limbs trimmed. Note B - photo 60-W-4430.
- 1809 - A lone 5-inch diameter 35-foot australian pine on a vacant lot, 130 feet east of high water line - about 800 feet northwest of a two-story large motel. The nearest tree to this one is a small cabbage palm about 120 feet north; limbs trimmed to a height of 10 feet. Note B tied to limb 12 feet above the ground. Photo 60-W-4430.
- 1810 - A small lone cabbage palm in a vacant lot approximately 150 feet east of a sand drive to beach, approximately 130 feet south of center line of road and 150 feet north of high water line. Lower fronds trimmed. Note A and B. Photo 60-W-4430.
- 1811 - A lone palm with storm torn fronds that are turning brown on the high water line; about 500 feet west of the west end of a line of tree stumps and fallen trunks that are on the foreshore. Another such palm with lesser top is about 160 feet east. Note A nailed to trunk; note B wrapped around trunk. Photo 60-W-4430.
- 1812 - A lone 35-foot australian pine near point about 110 feet north of high water line; limbs trimmed. Note B. Photo 60-W-4430.
- 1813 - The northeast corner of a green house with white trim. House nearest point; corner is one nearest pier. Not marked. Photo 60-W-4430.

- 1814 - The north corner of a white house; first house north of waterway. A small pier is in front of house and a large tall TV antenna is about 5 feet from signal corner. Not marked. Photo 60-W-4432.
- 1815 - The offshore end of a rock groin, about 300 feet east of a white church with cross. Note A and C. Photo 60-W-4432.
- 1816 - The northwest corner (at corner of L) of an L-shaped pier. Only pier in area. Note C. Photo 60-W-4431.
- 1817 - The offshore end of an overhanging mangrove limb about 40 feet southeast of entrance to small bay. Top of this mangrove has been broken off. Cut limbs; Note B & C. Photo 60-W-4431.
- 1818 - An isolated mangrove bush about 5 feet high, on an oyster bar on north side of a small mangrove island. This the center of 3 mangrove bushes on this bar. Note A & B. Photo 60-W-4431.
- 1819 - A dead mangrove tree snag in about the center of a small cove, on the north side of a mangrove island. Note A nailed to trunk; Note B 10 feet above ground. Photo 60-W-4431.
- 1820 - The northeast corner (not the porch) of the main part, which is highest part, of a green house with white trim - only house on point. Not marked. Photo 60-W-4431.
- 1821 - A large, tall TV antenna 18 feet south of the northeast corner of a white house on point. This is the only tall antenna in area. Not marked. Photo 60-W-4431.
- 1822 - The center of a small 8-foot australian pine, which is the northeasterly of three such pines in a triangle about 15 feet apart; about 230 feet north northwest of the end of the fill and a dredged cut, about 1100 feet south southeast of a buff-colored house on point, and about 12 feet in from edge of fill and high water line. Limbs trimmed to 6 feet. Note B. PINE 1961 in beneath top of this tree. Photo 60-W-4431.
- 1823 - A small (3 ft. high) detached mangrove bush at northwest end of oyster bar which makes off a mangrove island, about 30 feet from mangrove. Note A, B & C. Photo 60-W-4430.
- 1824 - The southeast corner of a small boat shed in front of a buff-colored concrete block house. Not marked. Photo 60-W-4430.

- 1825 - The end of an overhanging mangrove limb about 40 feet southeast of the north end of mangrove island. A large partially dead mangrove tree is on point - cut limbs - 3 foot square white cloth tied to limb. Photo 60-W-4430.
- 1826 - The end of a broken, dead, overhanging mangrove limb, about 200 feet south of a small core and about 40 feet south of an indentation in mangrove. A large limb from same tree is above this limb and is alive. Limbs cut - 3x4 ft. cloth tied to limb. Photo 60-W-4430.
- 1827 - An overhanging mangrove limb at the northwest end of a large mangrove island, about 8 feet above high water. The shoreline turns east and south at this point. Large Note B - cut limbs. Photo 60-W-4430.
- 1828 - A detached mangrove bush at high water line and in front of a large open area - about 40 feet southeast of end of mangrove and at southeast edge of road end. Note A & B. Photo 60-W-4430.
- 1829 - The largest of a group of piling at edge of shoal. This group is the northerly of three groups and this piling has a red pointer nailed to it. A Note A is the upper part of a V-shaped banner. Photo 60-W-4430.
- 1830 - The root end (offshore) of a small mangrove tree that leans inland. This is the first of two such trees southeast (about 15 feet) from a drainage canal. Note C - photo 60-W-4430.
- 1831 - A lone, low small mangrove bush about 200 feet southeast of a large mangrove island. Note C - photo 60-W-4430.
- 1832 - The top of a dead mangrove tree on a white sand bar about 200 feet west of west end of large mangrove island. Note C and large Note B - photo 60-W-4430.
- 1833 - An overhanging mangrove limb about 100 feet north of the north end of shallow cove with white sand and at south edge of small indentation in mangrove. Cut limbs - large Note B. Photo 60-W-4443.
- 1834 - An overhanging mangrove limb at the south tip of mangrove island; a small indentation is at east side of limb. A piece of screen wire hangs in mangrove about 12 feet north. Cut limbs - Note B. Photo 60-W-4430.

- 1835 - An overhanging mangrove limb at north end of small mangrove island; a small indentation is east of signal. Large Note B. Photo 60-W-4430.
- 1836 - The offshore end of a dead mangrove trunk that lies horizontal at the north end of a rounding cove. A clump of dead mangrove trees and limbs are about 20 feet east. Limbs cut. Note A & B on limb above trunk. Photo 60-W-4443.
- 1837 - A low overhanging mangrove limb at southeast end of a large detached mangrove bush. Note B & C and cut limbs. Photo 60-W-4442.
- 1838 - The center of the offshore of three detached mangrove bushes on an oyster bar. Limbs trimmed. Note B & C. Photo 60-W-4442.
- 1839 - The center of the northeastern of several detached mangrove bushes on bar. Limbs cut. Note B. Photo 60-W-4443.
- 1840 - The Center of the offshore and larger mangrove bush at northwest end of mangrove island. Limbs trimmed. Note B. The framework of an iron chair is also in bush. Photo 60-W-4442.
- 1841 - An overhanging mangrove limb on south side of mangrove island and at east side of small bight or cove. Cut limbs. Note B. Photo 60-W-4431.
- 1842 - The southeasterly of two mangrove bushes that grow together on southeast side of small mangrove island. Cut limbs. Note B. Photo 60-W-4431.
- 1843 - The northwest end of mangrove roots on a white shell bar, on the south side of a small cove. Note A & B. Photo 60-W-4431.
- 1844 - A small, lone mangrove bush on a round oyster shell bar. A much smaller dead mangrove bush is on opposite side of bar. Note B & C. Photo 60-W-4431.
- 1845 - A lone, small (6-feet high) australian pine on dredged fill about 60 feet south of dredged cut. Lower limbs trimmed off. Note B. Photo 60-W-4430.
- 1846 - The offshore end of a dead mangrove snag that is horizontal (about 5 feet offshore), about 100 feet south of mouth of drainage ditch and about 30 feet north of a large, dead mangrove lying in water. Note C. Photo 60-W-4430.

- 1847 - The southerly of three 8-inch pines at the south edge of a large open sand area - about 100 feet northeast of high water line. Three dead pines are very near the high water line about 140 feet south. Limbs trimmed to a height of 12 feet. Note B. Photo 60-W-4429.
- 1848 - The center of two 6-inch pines that are about 2 feet apart; appears as one lone pine - (2-inch pine is about 50 feet north); 95 feet northeast of high water line. Limbs trimmed to a height of 10 feet. Note B. Photo 60-W-4429.
- 1849 - The east tip of a small, dark, patch of vines that form a ? Note A and C. Photo 60-W-4429.
- 1850 - The center of top of lone 50-foot tall cocoanut palm about 60 feet south of high water line. This is by far the tallest palm in area. Not marked. Photo 60-W-4429.
- 1851 - The west tip of a seagrape tree that is broken with a part of the trunk system lying eastward - about 5 feet east of high water line and near the center of a white shell strip. Dead mangrove trees in water are about 80 feet northwest and 140 feet south. Note A nailed to trunk and Note B. Photo 60-W-4429.
- 1852 - A lone 8-inch pine which is the south-westernmost of several pines that are widely spaced along the shore; 50 feet south-east of high water line. Note A & B nailed to trunk about 40 feet southwest of fallen 10-inch pine. Photo 60-W-4429.
- 1853 - A 6-inch lone pine offshore from a group of large pines; about 30 feet north of a slightly larger lone pine that leans northerly; about 45 feet south of a large lone bush and 25 feet east of high water line. Note A nailed to trunk. Note B tied to a trimmed limb 10 feet above ground. Photo 60-W-4429.
- 1854 - A small, twin 4-foot pine at southwest end of what appears to be an abandoned road - at high water line. Limbs trimmed. Note B. Photo 60-W-4429.
- 1855 - A small detached mangrove bush about 20 feet offshore from a larger bush which is north bush in a line of small bushes. Numerous smaller detached bushes are to the northwest. Limbs trimmed. Note C in center. Photo 60-W-4429
- 1856 - A small lone mangrove bush near east end of oyster bar - only one bush is east of this one. It is about 10 feet distant and is very small (2 feet). Limbs trimmed. Notes A & B. Photo 60-W-4429.

PHOTOGRAMMETRIC OFFICE REVIEW OF ADVANCE MANUSCRIPT

50

T- 11418

1. Projection and grids WHS 2. Title WHS 3. Manuscript numbers WHS 4. Manuscript size WHS5. Classification label unclassified

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline WHS 13. Low-water line WHS 14. Rocks, shoals, etc. WHS 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 WHS 29. Railroads XX 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 WHS40. William H. Shearouse

Reviewer

William H. Shearouse

William A. Rasur

Supervisor, 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:

TIDE COMPUTATION

PROJECT NO. Ph-146 T. 11418

Time and date of exposure 13/10 21/01/58

Reference station

St. Marks River ENT

Mean range

1.7

Date of field inspection

Subordinate station

Punta Rassa, San Carlos Bay

Ratio of ranges

0.71

	Time		Height feet	Height x Ratio of ranges	High tide at Ref. Sta. Time difference Corrected time at Subordinate station	Time		Low tide at Ref. Sta. Time difference Corrected time at Subordinate station	Time	
	h.	m.				h.	m.		h.	m.
High tide	8	02	2.2	1.6		9	17		16	18
Low tide	14	57	0.4	0.3		-	15		-	21
Duration of rise or fall	6	55		1.3		8	02		14	57

	h.	m.	feet	feet	Photo. No.
Time H. T. or L. T. Required time Interval	14	57	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0.3 0.2 0.5	
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		

M-2617-12

Computed by *[Signature]* Checked by *[Signature]*

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 Lamm
Chief, Photogrammetric Branch

Chief, Nautical Chart Division

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

