5867

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Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photo. Compilation

Field No. H. T. 242-G Office No. T-5867

LOCALITY

State Florida

General locality San Carlos Bay

Locality St. James City

194 3

CHIEF OF PARTY

K.G.Crosby

LIBRARY & ARCHIVES

DATENine Lens Photos-11-10-42 , 11-12-42

B-1870-1 (1)

DATA RECORD

T- 5867

Quadrangle (II):

Project No. (II): H.T. 242-G

Field Office: Tampa, Fla. Chief of Party: K.G.Crosby

Compilation Office: Tampa, Fla. Chief of Party: K.G. Crosby

Instructions dated (II III): 4/3/40 Copy filed in Descriptive

Completed survey received in office: 15 Nov. 1943

Reported to Nautical Chart Section:

Reviewed: 30 May, 1945 Applied to chart No. 1255 Date: 8/25/45 and 3/4/48 473 10/7/47

Redrafting Completed: 13 Mar. 1947

Registered: 27 Hogy 1948 Published: June 1947

Compilation Scale: 1:10,000 Published Scale: 1:10000

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927 Datum Plane (III):

Reference Station (III): SOUTH END, 1884,1908,1927

Lat.:26°29'47"745(1469.4m) Long.:82°03'25"910(717.5m) Adjusted

Unadjusted

State Plane Coordinates (VI):

X = 481,292.90 Y = 786,157.38 West Zone

Military Grid Zone (VI)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
11584	11/12/42	11:12 A	.M. 1:10,000	- 0.5
11585	th.	11:12	us Us	- 0.5
11586	13/	11:13	us .	- 0.5 - 0.4
11603	ti ti	11:27 11:28	th	- 0.4
1160h		10:45	1#	- 0.1
11536 11537	11/10/42	10:46	t)r	- 0.1
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Tide from (III): Punta Raso, San Carlos Bay, Ref .: Tampa Bay

Mean Range: 1.7 Spring Range: 2.3

Camera: (Kind or source) USC&GS 9 lens (8^{10}_{4}) focal length)

Field Inspection by: H.A.Duffy, Prin. Photo. Aid date: 4/1943

Field Edit by: date:

Date of Mean High-Water Line Location (III): Date of Photographs

Projection and Grids ruled by (III) Wash.Office date: 5/21/43

" " checked by: " date: 5/21/43

Control plotted by: 0.M.Rivera, Sr.Photo.Aid date: 7/13/43

Control checked by: R.Dossett, Prin. Photo. Aid date: 7/13/43

Radial Plot by: Tampa Office Personnel date: Aug. 1943

Oct.-Nov.

Detailed by: R.Dossett, Prin. Photo. Aid date: 1943

F.H.Elrod
Reviewed in compilation office by: Prin. Photo. Aid date: Nov. 1943

Elevations on Field Edit Sheet checked by:

dates

STATISTICS (III)

Land Area (Sq. Statute Miles): 7.2

Shoreline (More than 200 meters to opposite shore): 32.8

Shoreline (Less than 200 meters to opposite shore): 13.1

Number of Recoverable Topographic Stations established: 6

Number of Temporary Hydrographic Stations located by radial plot: 126

Leveling (to control contours) - miles:

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

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

Remarks:

Jewtish 1927 • Reserve South End 1884 Havelock 1858 Bird (USE) 1936 1938 Isle " James " Chino "

DESCRIPTIVE REPORT TO ACCOMPANY SHEET NO. T-5867

CONTROL

Eight triangulation stations appear within the tracing limits of this sheet. All were held by the draftsman to establish additional radial points. The triangulation stations were evenly distributed over the southern portion of the sheet, there being no triangulation in the northern and north central areas. This caused difficulty in the establishment of additional radial points in that area. By holding those stations established in the main radial plot, however, it is believed that all radial points are within the allowable error.

The triangulation Station PUNTA RASA 1943 (Rear Range Light) has been established by radial line intersection and shown as an H & T station. Its position, as established by the field inspector is not in agreement with the Geographic Position as recorded by the Washington office. The field inspector notes that it has been moved from its original position and has submitted a card describing the new position as about 6 meters southeast of 1928 position.

MAIN RADIAL PLOT

Discussion of the main radial plot which includes this sheet has been made a part of the descriptive report for sheet T-5872.

DETAILING

The detailing of this sheet has been done according to the current instructions for this project.

Field inspection notes were plentiful throughout the sheet.

All photographs were generally clear and of reasonably good scale.

Little difficulty was experienced in the detailing of this sheet. The vegetation was predominantly mangrove with scattered pine and palm in the higher inshore area.

The numerous oyster bars off the eastern shore of Pine Island have been shown as approximate and indicated by a dotted line, the shoal of sand and shell by a dashed line. The field inspector notes that these oyster bars are from 1 to $1\frac{1}{2}$ feet above the sand and shell shoal and have perpendicular edges. They are generally bare at M.L.W.

SUPPLEMENTAL DATA

No supplemental data was available.

LANDMARKS AND AIDS TO NAVIGATION

The non floating aids appearing on this sheet have been listed on Form 567 and made a part of this report. CALLEC.

HYDROGRAPHIC CONTROL

One hundred and twenty-six unmarked hydrographic stations, bearing a short description, appear within the tracing limits of this sheet. Inasmuch as the coast line in this area is heavily indented this is not excessive. They have been used by the draftsman to control the shoreline. They were thoroughly checked for position on the photographs and in cases of doubtful picking the stereoscope was used.

The following marked hydrographic stations also appear: (fms. 3714)

Station	Date	Established by
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GEOGRAPHIC NAMES		

A report on Geographic Names covering the area Caloosahatchee River, San Carlos Bay, Pine Island, and Matlacha Pass, was submitted to the Washington Office by Harold A. Duffy, Prin. Photogrammetric Aid, May 31, 1943. By Attention is called to this report as several discrepancies occur between those names appearing on nautical charts 1255 and 473 and this compilation.

COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

A comparison was made with U.S.C. & G.S. topographic sheet T-4388. The area covered by this comparison was from Long. 82° 03' eastward to Long. 82° 01' and from Lat. 26° 29' northward to Lat. 26° 33'.

In this area the position of Mosquito Key (formerly Big Island) as located by the draftsman is about 75 meters S of the position as shown on T-4388. The N. shoreline of Fisherman Key is approximately 20 meters S of the position as shown on T-4388. Miguel Key and Kitchel Key are in

reasonably good agreement. The oyster bars and shoal areas are sufficiently agreeable for approximate positions, however, considerably more are shown on this drawing than on T-4388. The position of Fertilizer Key (formerly Merwin Key) as shown on T-4388 is approximately 20 meters N of that on this drawing.

The shoreline of the area in the vicinity of Punta Blanca is generally in agreement with the shoreline shown about 15 to 20 meters westward on T-4388. The position and shape of Bird Island is not the same. Bird Island is larger and also north of what is now Nichols Island.

. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with U.S.C. and G.S. Nautical Charts 473 (San Carlos Bay and Caloosahatchee River) and 1255 (Estero Bay to Lemon Bay, including Charlotte Harbor). The following discrepancies were noted.

The city of St. James City is shown as being located at the extreme end of the highway and on the west side. This is an inaccurate position as the city lies mainly east of the highway and to the north as shown on this map drawing. There is no well defined planimetric system of streets.

A definite shoreline is shown on the above mentioned charts, running north and south, and on both sides of high-way to designate an area shown on this drawing as an area of Sand Flats which flood at extremely high water. A study of the photographs in this area together with the field inspector's notes will verify this as the true character of this area.

No large disagreements were noted otherwise.

Respectfully submitted,

Rudolph Wossett, Prin. Photogrammetric Aid

Forwarded by:

Kenneth G. Chosby, Chief of Party....

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Form 567 (Rev. April 1942)

U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE

Navigation Sheet T-5867 Non-floating aids to

LANDMARKS FOR CHARTS

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Tampa Photogrammetric Office Nov. 22 . 19 43

be charted on (Helenia from), the charts indicated. I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks, filled in Nautical Charts Section

The positions given have been checked after listing.

chart Letter 96(1945) - www. 28. under

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Form 567 (Rev. April 1942)

U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE

LANDMARKS FOR CHARTS

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Tampa Photogrammetric Office

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Sound Manual Andrew Or are sources Q.C. Girls of was J.S. LIGHTLIST GEOGRAPHIC NAMES FIGUROUS SEEL Orloca Mada T-5867 Survey No. С Name on Survey В Ε F G Н Rag Island 1 Manatee Bay 3 Dollar Key White Rock Keys (pending with USBGN) 4 ν 5 McKeever Keys 6 Galt Island 7 Clam Key 8 (pending with USBON) <u>Cayo Chino</u> 9 Bodiford Key Cutoff Bays 10 Long Cutoff 11 Short Cutoff 12 V v York Island 13 Saint James Point 14 15 Royal Stands Marie of the sea of the season 16 17 NINE bo ove CAISES HAVE 18 dec-ded been 19 H. 20 21 22 23 24 25 26 27 M 234

Review Report Planimetric Map Manuscript T-5867

Radial Plot

The Radial plot was checked during review and found to be satisfactory.

Detailing

Corrections and additions were made to shoreline, oyster bars and woodland boundaries.

According to the descriptive report the cyster bors off the eastern shore of Pine Island have been shown as approximate in position. An examination of these bars indicates that they are very close to their true position.

Comparison with Previous Surveys

T-4388 1:20,000 1927 T-5867 supersedes T-4388 in common areas for common detail.

There are no graphic control surveys and no contemporary hydrographic surveys in the area of T-5867.

Comparison with Nautical Charts

Chart 473 1:40,000 1945 Chart 1255 1:80,000

The map manuscript has not been applied to charts as of the date of this review.

Reviewed by:

Inspected by:

APPROVED BY:

Chief,

recanical Assistant to Chief

Division of Photogrammetry

Chief, Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. 7-5867

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARĶS
8/22/45	1255	Map Hall	Before After Verification and Review
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2-6-48	1255	Mandros	Partially applied. Before After Verification and Review Cartially
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A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.