

# 5867

Diag'd. On Diag. Ch. No. 1265

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

DATE Nine Lens Photos-11-10-42, 11-12-42

# 5867

## 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 *Division of*  
~~Descriptive~~  
~~Report No. T-~~ (VI)  
*Photogrammetry Office Files*

Completed survey received in office: 15 Nov. 1943

Reported to Nautical Chart Section:

Reviewed: 30 May, 1945 Applied to chart No. 1255 Date: 8/27/45 and 2/4/48  
473 10/7/47

Redrafting Completed: 13 Mar. 1947

Registered: *March 1949*  
~~27 May, 1944~~

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): M. ~~S.H.~~  
H.W.

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	"	11:12	"	- 0.5
11586	"	11:13	"	- 0.5
11603	"	11:27	"	- 0.4
11604	"	11:28	"	- 0.4
11536	11/10/42	10:45	"	- 0.1
11537	"	10:46	"	- 0.1

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 ( $8\frac{1}{4}$ " 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: O.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

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

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

Elevations on Field Edit Sheet  
checked by: date:

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:

Jewfish	1927
Reserve	"
South End	1884
Havelock	1858
Bird (USE)	1934
Isle "	1938
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. *Chl. Let. No. 96 (1945)*

### 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. 514*)

<u>Station</u>	<u>Date</u>	<u>Established by</u>
Raz ✓	1943	K. G. Crosby
Pel ✓	"	"
Nor ✓	"	"
Sou ✓	"	"
Can ✓	"	"
Dit ✓	"	"
<i>Punta Rosa R.R.Lt</i>	"	"

### 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. *814* 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.

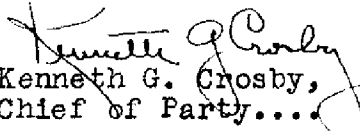
A definite shoreline is shown on the above mentioned charts, running north and south, and on both sides of highway to designate an area shown on this drawing as an area of Sand Flats which flood at extremely high water. A study of the photographs in this area together with the field inspector's notes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

No large disagreements were noted otherwise.

Respectfully submitted,

  
Rudolph Bossett,  
Prin. Photogrammetric Aid

Forwarded by:

  
Kenneth G. Crosby,  
Chief of Party....

## LANDMARKS FOR CHARTS

**TO BE CHARTED** } STRIKE OUT ONE  
~~XXXXXXXXXXXX~~

I recommend that the following objects which be charted on ~~(Ireland)~~ the charts indicated.

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks, charted on ~~(General Transit)~~ the charts indicated.

The positions given have been checked after listing.

filled in Nautical Charts Section under  
Chart Letter 96(1945) - W.W. 88.

Kenneth G. Crosby

*Chief of Party.*

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

## LANDMARKS FOR CHARTS

TO BE CHARTED  
~~TO BE CHARTED~~ } STRIKE OUT ONE

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks, be charted on ~~(the same chart)~~ the charts indicated.

The positions given have been checked after listing.

*Chart letter 96 (1945) - W.W. & J.*

**Kenneth G. Crosby**

*Chief of Party.*

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.



## GEOGRAPHIC NAMES

Survey No.

T-5867

1	Name on Survey	A	B	C	D	E	F	G	H	K	
	Florida									USGB	1
	San Carlos Bay	✓									2
	Matlacha Pass	✓									3
	Pine Island	✓									4
	Pine Island Sound	✓									5
	Florida No. 183	✓									6
	Calooshattee River	✓								USGB	7
	Sword Point	✓	(USBCN decision: use pending its revision re Punta Blanca)								8
	Punta Blanca Creek	✓									9
	Punta Blanca Bays	✓									10
	Jewfish Creek	✓									11
	Eagle Nest	✓	(locality name)								12
	Miguel Key	✓									13
	Kitchel Key	✓									14
	Mosquito Key	✓	(pending with USBCN)								15
	Fisherman Key	✓									16
	Nichols Island	✓	(	"	"	)					17
	Starvation Key	✓									18
	Givney Key	✓									19
	Fertilizer Key	✓	(	"	"	)					20
	Southeast Bar	✓									21
	Sister Keys	✓									22
	Big Sister Key	✓									23
	Saint James Creek	✓									24
	Saint James City	✓									25
	Rock Hole	✓									26
	Second Mouth	✓									27

# GEOGRAPHIC NAMES

Survey No. T-5867

2	Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K
	<u>Rag Island</u>	✓								1
	<u>Mamtee Bay</u>	✓								2
	<u>Dollar Key</u>	✓								3
	<u>White Rock Keys</u>	✓		(pending with USBON)						4
	<u>McKeever Keys</u>	✓								5
	<u>Galt Island</u>	✓								6
	<u>Clam Key</u>	✓								7
	<u>Cayo Chino</u>	✓		(pending with USBON)						8
	<u>Bodiford Key</u>	✓								9
	<u>Cutoff Bays</u>	✓								10
	<u>Long Cutoff</u>	✓								11
	<u>Short Cutoff</u>	✓								12
	<u>York Island</u>	✓								13
	<u>Saint James Point</u>	✓								14
	<del>Rag Island</del>									15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

L Heck 1/6/47  
 1/1/47: none of the  
 above cases have  
 been dec. by  
 U.S.R. 1/1/47  
 L.H.

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 oyster bars 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 1944

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

Reviewed by:

W. W. St. John  
W. W. St. John 6/17/45 K.H.M.

APPROVED BY:

B. J. Jones 3/49  
Technical Assistant to Chief  
Division of Photogrammetry  
Chief, Surveys Section

W. C. McDonald  
Chief, Section of Topography  
Nautical Chart Branch

Inspected by:

D. H. Benson  
D. H. Benson K.H.M.

K. T. Adams  
Chief, Division of Charts  
Photogrammetry

C. K. Green  
Chief, Div. of Coastal Surveys

## NAUTICAL CHARTS BRANCH

SURVEY NO. T-5867

## Record of Application to Charts

[illegible]

M-2168-1

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.