

# 5865

Diag'd. on Diag. Ch. No. 1255

Form 504

## U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

### DESCRIPTIVE REPORT

Type of Survey Air Photo Compilation

Field No. \_\_\_\_\_ Office No. T-5865

#### LOCALITY

State Florida

General locality Pine Island Sound

Locality Sanibel Island

194 3

#### CHIEF OF PARTY

Lieut. Comdr. Kenneth G. Crosby

#### LIBRARY & ARCHIVES

*Nine Lens Photo.* 12/14/39

DATE *Nine Lens Photos.* 11/10/42

# 5865

## DATA RECORD

T- 5865

Quadrangle (II):

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

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

Compilation Office: Chief of Party: K. G. Crosby  
Tampa, FloridaInstructions dated (II III):  
April 3, 1940Copy filed in Descriptive  
Report No. T- (VI)

Completed survey received in office: 28 Dec 1943

Reported to Nautical Chart Section:

Reviewed: 30 April, 1945 Applied to chart No. 1255 Date: 22 Aug. 1945

Redrafting Completed:

Registered: ~~26 Feb 1947~~ <sup>Oct 1948</sup>

Published: 22 July 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. <sup>H W</sup> ~~Sch~~

Reference Station (III): Munson, 1934

Lat.:

Long.:

Adjusted  
~~Unadjusted~~

26°31'30.790" (947.6m)

82°11'33.625" (930.9m)

State Plane Coordinates (VI): Florida West Zone.

X = 436,999.14

Y = 796,604.24 West Zone

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
4285	12/14/39	1:00 P.M.	1:10,000	0.4 ft.
11533	11/10/42	10:41 A.M.	"	0.2 ft.
11534	11/10/42	10:42 A.M.	"	0.2 ft.
11535	11/10/42	10:43 A.M.	"	0.2 ft.

Tide from (III): Point Ybel, San Carlos Bay Entrance

Mean Range: 1.8 ft. Spring Range: 2.4 ft.

Camera: (Kind or source) Coast & Geodetic Survey 9-lens

Field Inspection by: H. A. Duffy, Prin. Photo Aid date: March, 1943  
L. C. Bonham, Jr. Photo. Engr.

Field Edit by: date:

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

Projection and Grids ruled by (III) date: May 1943  
Washington Office

" " " checked by: " " date: May 1943

Control plotted by: R. Dossett, Prin. Photo. Aid date: July 14, 1943

Control checked by: O.M. Rivera, Sr. Photo. Aid date: " "

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

Detailed by: E. E. Gray, Photo. Aid date: Oct.-Dec. 1943

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

Elevations on Field Edit Sheet  
checked by: date:

### STATISTICS (III)

Land Area (Sq. Statute Miles): 5.2

Shoreline (More than 200 meters to opposite shore): 24.8

Shoreline (Less than 200 meters to opposite shore): 13.7

Number of Recoverable Topographic Stations established: 10

Number of Temporary Hydrographic Stations located by radial plot 107

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:

DESCRIPTIVE REPORT  
To Accompany  
SHEET NO. T-5865

26. CONTROL

The only control station falling within the detailing limits of this sheet was the Triangulation Station MUNSON, 1934. Secondary control points were established by the main radial plot, same being adequate to use as control to cut in additional radial points.

27. MAIN RADIAL PLOT

The main radial plot discussion which includes this sheet has been made a part of the compilation report for Sheet T-5872.

28. DETAILING

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

Field inspection was adequate throughout this sheet. All photographs were generally clear and of good scale.

29. SUPPLEMENTAL DATA

No supplemental data was available.

30. LANDMARKS AND AIDS TO NAVIGATION

The landmarks and Aids to Navigation appearing on this sheet have been listed on Form 567, which is made a part of this report.

23 Bns.  
23 Lts.

35. HYDROGRAPHIC CONTROL

There are 107 temporary H. & T. Stations, such as "points of mangrove" and "line mangroves" that may be used for hydrographic work.

In addition the following marked<sup>14</sup> H & T Stations may be recovered for hydrographic use: (forms 524 submitted)

Light No. 2 (Red) 1943  
 Light No. 16. " "  
 Light No. 18 " "

*fm* *fm*  
 524 567

Name of Station	Established by	Year
ORE		
LOG	K. G. Crosby	1943
CHIMNEY, Red Brick,	"	"
CAPTIVA LODGE(unmarked)	"	"
CAB	"	"
EYE	"	"
CHIMNEY (Unmarked) White Brick	"	"
MIC	"	"
GUT	"	"
NEE	"	"
PLY	"	"

MUNSON A.Z. 1934

### 37. GEOGRAPHIC NAMES

A special report on the geographic names under the title Florida West Coast, Caloosahatchee River, San Carlos Bay, Pine Island Sound and Matlacha Pass was submitted by Harold A. Duffy, Prin. Photo Aid to the Washington Office May 31, 1943. *List of approved names attached to this report.*

### 44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

There were no topographic quadrangle maps available for a comparison.

### 45. COMPARISON WITH NAUTICAL CHARTS

*There are no graphic control surveys or contemporary hydrographic surveys.*

Comparison was made with Coast and Geodetic Survey Nautical Chart No. 1255. The following discrepancies are noted:

1. Florida State Highway No. 25 traversing Sanibel and Captive Islands is not shown on the Nautical Chart.
2. The town of Captiva is not shown on the Nautical Chart.
3. The entrance to Blind Pass has been changed by tide action and is now about  $1\frac{1}{2}$  miles North of that shown on the nautical chart. The old entrance is now closed.
4. The shoreline in general has changed considerably in this vicinity, Blind Pass, and there now appears an island called Silver Key that does not appear on the Nautical Chart.

The shoreline of Captiva and Sanibel Islands along the Gulf of Mexico side is in general agreement but is subject to rapid changes of several meters caused by storms.


The mangrove limits of the Pine Island Sound side (East side) of the Islands is, in general, in good agreement.

Respectfully submitted,



E. E. Gray, Photo Aid.

Forwarded by:



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

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS  
Aids to Navigation  
Sheet-T-5865

Tampa Photogrammetric Office  
Tampa, Florida

Dec. 29, 1943

TO BE CHARTED  
~~FOR DESTRUCTION~~ STRIKE OUT ONE

I recommend that the following objects which have ~~(been)~~ been inspected from seaward to determine their value as landmarks, be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing.

Kenneth G. Crosby

Chief of Party.

GENERAL LOCALITY	NAME AND DESCRIPTION	POSITION		DATUM	METHOD OF LOCATION	DATE OF LOCATION	CHARTS AFFECTED		
		LATITUDE	LONGITUDE				HARBOR CHART	INSHORE CHART	OFFSHORE CHART
		0 1	D. M. METERS	0 1	D. P. METERS				
030	Horn Passage Beacon 4	26 31	1698	82 10	1497	N.A. 1927	1255		
031	" 6	26 31	1477	82 10	1630	"			
028	" 10	26 30	1321	82 11	542	"			
029	" 8	26 30	917	82 11	1262	"			
010	" 5	26 29	1783	82 11	1634	"			
011	" (no number)	26 29	13564	82 11	1618	"			
012	" 4 A	26 29	1379	82 11	1647	"			
013	" (no number)	26 29	1090	82 10	51	"			
014	" 2 B	26 29	584	82 10	146	"			
015	" 1	26 29	430	82 10	270	"			
016	" 3	26 29	464	82 10	361	"			
017	" 2	26 29	1102	82 10	750	"			
018	Wulfert Channel Beacon 7	26 29	1277	82 10	1558	"			

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.



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

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

LANDMARKS FOR CHARTS  
Tampa Photogrammetric Office  
Tampa, Florida

Dec. 29, 1943

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks, be charted on (~~deleted from~~) the charts indicated.  
The positions given have been checked after listing.

Kenneth G. Crosby

Chief of Party

GENERAL LOCALITY	Pine Island Sound	POSITION						METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		LATITUDE		LONGITUDE		DATUM							
		° ' "	D. M. METERS	° ' "	D. P. METERS								
019	Wulfert Channel Beacon 5 -	26 29	1257	82 09	1592	N.A. 1927	Sextant	1943				1255	
020	" " 3 -	26 29	1175	82 09	300	"	"	"	"	"	"	"	
021	" " 2 -	26 29	1249	82 09	1198	"	"	"	"	"	"	"	
022	" " 1 -	26 29	1187	82 09	570	"	"	"	"	"	"	"	
023	Pine Island Sound Light 16 -	26 29	1458	82 08	1321	"	"	"	"	"	"	"	
032	" " 18 -	26 31	755	82 09	217	"	"	"	"	"	"	"	
033	" " Beacon 19 -	26 31	996	82 09	407	"	"	"	"	"	"	"	
034	" " 20 -	26 31	1012	82 09	335	"	"	"	"	"	"	"	
035	" " 21 -	26 31	1276	82 09	1100	"	"	"	"	"	"	"	
036	" " 22 -	26 31	1295	82 09	499	"	"	"	"	"	"	"	
039	Captiva Light 2 /	26 32	20	82 10	1339	"	Air-photo. Comp.	"	"	"	"	"	
039	Captiva Range Front Beacon	26 31	1193	82 11	276	"	Sextant	"	"	"	"	"	
038	Captiva Range Rear Beacon	26 31	1027	82 11	424	"	"	"	"	"	"	"	

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

**Tampa Photogrammetric Office**  
**Tampa, Florida**

Dec. 29, 1943

TO BE CHARTED }  
TO BE DELETED } STRIKE OUT ONE

I recommend that the following objects which have ~~been~~<sup>been</sup> inspected from seaward to determine their value as landmarks, be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing.

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-5865

GEOGRAPHIC NAMES											
Survey No. T-5865											
Name on Survey		On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
1		A	B	C	D	E	F	G	H	K	
-Florida	✓									USGB	1
-Gulf of Mexico	✓										2
-Pine Island Sound	✓										3
-Sanibel Island	✓										4
State No. 25	✓										5
											6
-Captiva Island	✓										7
-Chadwick Bayou	✓										8
-Captiva	✓										9
-Roosevelt Channel	✓										10
-Buck Key	✓										11
-Braynerd Bayou	✓										12
-Buck Key Channel	✓										13
-Long Rock	✓										14
-Bunch Rock	✓										15
-Wulfert Flats	✓										16
-Wulfert Channel	✓										17
-Wulfert	✓										18
-Wulfert Keys	✓										19
-Blind Pass	✓										20
-Runyan Key	✓										21
-Albright Island	✓										22
-Dinken Bayou	✓										23
-Silver Key	✓										24
-Old Blind Pass Channel	✓										25
-Sanibel Sand Flats	✓										26
-Sanibel Bayous	✓										27

M 234

# GEOGRAPHIC NAMES

Survey No. T-5865

GEOGRAPHIC NAMES											
Survey No. T-5865											
2	Name on Survey										
		A	B	C	D	E	F	G	H	K	
	✓ Umbrella Pool ✓										1
	✓ Hardworking Bayou ✓										2
	✓ Coral Creek Inlet ✓										3
	✓ Kesson Bayou ✓										4
	✓ Chadwick Lake ✓	name	o.k. from T-5863								5
											6
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Names mentioned in the approved

by L. Heck on 12/31/46

M 234

Names indicated in red approved  
by L. Heck on 12/31/46

DIVISION OF PHOTOGRAMMETRY  
Review Report of  
Planimetric Map Manuscript T-5865

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

28 Detailing

Detail added to the map manuscript during review is shown in red ink. Roads were reclassified and several were added to the map manuscript.

38 Bridges

The fixed wooden bridge over Blind Pass is listed in the 1941 U.S.E. List of Bridges as having a vertical clearance of 8.5 feet above mean high water and a horizontal clearance of 29 feet. The vertical clearance given by field inspection is 6 feet above mean high water. The horizontal clearance is in agreement.

43 Comparison with Previous Surveys

T-739	1:20,000	1859
T-4368	1:10,000	1928

Common features in common areas on these surveys are superseded by T-5865.

45 Comparison with Nautical Charts

Chart No. 1255, 1:80,000 reprint June 1944

51 Application to Charts

T-5865 has not been applied to nautical charts as of the date of this review.

Reviewed by:

Under the direction of:

W.W. St. John, 30 April, 1945

R.M. Barry *by K.H.M.*  
Chief, Review Section

B.M. Jones 10/48  
Technical Asst. to Chief,  
Division of Photogrammetry

J. S. Stephens  
Chief, Nautical Chart Branch  
Division of Charts

E. J. Jones  
Chief, Div. of Photogrammetry  
Acting

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

## NAUTICAL CHARTS BRANCH

SURVEY NO. T-5865

### Record of Application to Charts

[illegible]

M-216B-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.