

5872

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

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Map

Field No. H.T.-242-G Office No. T-5872

LOCALITY

State Florida

General locality Caloosahatchee River

Locality Fort Myers

1942-1943

CHIEF OF PARTY

K.G. Crosby

LIBRARY & ARCHIVES

DATE

Mar 18 - 1949

8-1870-1 (1)

5872

DATA RECORD

T- 5872

Quadrangle (II):

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

Field Office: Tampa, Florida

Chief of Party: K.G. Crosby

Compilation Office: Tampa, Florida

Chief of Party: K.G. Crosby

Instructions dated (II III): 4/3/40

Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office:

11/1/43

Reported to Nautical Chart Section:

1/26/45

Reviewed:

2/5/46

Applied to chart No. 1255

Date: 8-22-45

Redrafting Completed:

3/12/47

Registered: 16 Dec. 1948

Published:

5/27/47

Compilation Scale: 1:10,000

Published Scale:

1:10 000

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927

Datum Plane (III): 0.88 ft. below
Mean Sea Level Okeechobee Datum

Reference Station (III): Ft. Myers, Royal Palm Hotel, Tank, 1934

Lat.: 26°38'46"839(1441.5) Long.: 81°52'03"245(89.7 m) Adjusted
m. ~~Unadjusted~~

State Plane Coordinates (VI): 1-11 Florida, West Zone

X = 543,257.33 ft

Y = 840,604.56 ft.

Military Grid Zone (VI) _____

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
11567	11/12/42	11:00	1:10,000	+ 0.3
11568	"	11:01	"	+ 0.3
11569	"	11:02	"	+ 0.3
11593	"	11:18	"	+ 0.1
11594	"	11:18	"	+ 0.1
11595	"	11:19	"	+ 0.1

Tide from (III): Ft. Myers, Caloosahatchee River, Ref.: Tampa Bay

Mean Range: 0.7

Spring Range: 0.9

Camera: (Kind or source) USC&GS 9 lens (8 $\frac{1}{4}$ " focal length)

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

date: 7-1943

Field Edit by: None

date: —

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

Projection and Grids ruled by (III) J.O'N.-Wash. Offc. date: 5/21/43

" " " checked by: " date: "

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

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

Radial Plot by: Tampa Office Personnel date: July 1943

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

Reviewed in compilation office by: F.H. Elrod, Sr. Photo date: 10-14 to 10-20, '43

Elevations on Field Edit Sheet
checked by:

Aid

date:

STATISTICS (III)

Land Area (Sq. Statute Miles); 17.8

Shoreline (More than 200 meters to opposite shore); 12.3

Shoreline (Less than 200 meters to opposite shore); 10.5

Number of Recoverable Topographic Stations established; 17

Number of Temporary Hydrographic Stations located by radial plot; 22

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-5872

CONTROL

41+ 2 cur Q, light 33 (K.T. station) 2-5-44

Thirty-eight triangulation stations appear within the tracing limits of this sheet. Most of these were held in the main radial plot. Triangulation stations AF-20, 1934 and STAD 1928-34 could not be held. The discrepancy for AF-20 is covered in the main radial plot report.

The draftsman was unable to hold triangulation station STAD, 1928-34 in the establishment of additional radial points. The position of this station as established in the field was not in agreement with the plotted geographic position on the sheet. As a consequence it was reestablished by radial line intersection and appears on the sheet as an H & T station. This step placed it in agreement with other control in its vicinity.

MAIN RADIAL PLOT

This radial plot consisted of 13 sheets, T-5861 to T-5873 inclusive. The following photographs were used:

11525 - 11535
4285 - 4286
4327 - 4328
11536 - 11545
11595 - 11612
11614 - 11617
11581 - 11595
11566 - 11580 and 4236
4247 - 4236

Due to the size of this plot and the relative position of the sheets, it was found to be impractical to make the template assembly as a single unit. Therefore, three assemblies were made, each of which could have been independent, but which were overlapped upon each other sufficiently to make the result the equivalent of one continuous radial plot. The three parts of the plot were made up of the following combinations of sheets:

- (1) T-5868 - T-5872 inclusive
- (2) T-5865, T-5866, T-5867
- (3) T-5861 - T-5864 inclusive and T-5873

The photographs used for this plot were unmounted acetate impregnated, therefore it was necessary to use the master template for the elimination of paper distortion. The regular procedure was followed in laying the template; the ones with strongest fixes first, then working progressively through the ones with the weakest fixes. One addition was made to the

normal procedure in that the chamber junction and columnating marks were transferred from the template to the survey sheet, thus breaking down the amount of adjustment necessary in cutting in additional radial points.

Discrepancies were noted with respect to the following triangulation stations:

AF 20 ^{on T5872} made an intersection 15 meters N.W. from the plotted position. *(offactly or error in identification)*

FOURMILE ^{T5871} made an intersection 7 m. East of plotted position.

RR Light #4 made an intersection 4 m. West of plotted position.

GAB ^{T5811} made an intersection 19 meters N.E. of plotted position.

S. BOCA GRANDE TANK ^{on T5861} forms an intersection 22.5 meters N. of plotted position. According to field inspection notes this tank has been moved by approximately that distance.

On Sheets T-5865 and T-5863, control is very sparse, but azimuth lines were held tightly and good radial intersections were obtained. Therefore it is believed that this portion of the plot meets the required accuracy.

On the northern part of Sheet T-5873 (photographs 11614, 11615 and 11616) control was inadequate and it was impossible to obtain azimuth ties with other flights, therefore, the accuracy must remain questionable until the anticipated control in the northern part of this sheet is received in this office.

Some bad chamber junctions were noted throughout the area. When these were found, the bad rays within these junctions were disregarded, and no attempt was made to rectify the points affected.

With the exceptions noted, it is believed that this plot is well within the accuracy requirements.

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, Photo. 11569 having the best scale.

The beacons for the boat ways channels at Fort Myers were not numbered. They have been numbered by the draftsman from 1 to 12 inclusive to facilitate recording on Form 567.

JUNCTION

Attention is called to the disagreement at the junction of this sheet with that of sheet T-5883. Drafting of the Atlantic Coast Line railroad and Florida State Highway No. 25 at approximate Latitude $26^{\circ} 39.8'$, Longitude $81^{\circ} 50'$, is not in agreement with that of sheet T-5883 by about 6 or 7 meters. This is also true of the Seaboard Air Line railroad at approximate Latitude $26^{\circ} 38.7'$, Longitude $81^{\circ} 50'$. The reason for this disagreement is that an additional radial point was established by the draftsman very near the junction at those places on sheet T-5883. On running the new main radial plot for sheet T-5872, and other sheets to the west, it was determined that these points were slightly in error. However, these railroads and highway are straight and by extending them from the limits of sheet T-5872 eastward onto sheet T-5883 for a minute they will be in agreement. Sheet T-5883 was transmitted to the Washington Office before the discrepancy was discovered, therefore, it could not be corrected in this office.

Junction perfected during revision

GEOGRAPHIC NAMES

814

A special report on 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. Photogrammetric Aid, to the Washington Office, May 31, 1943.

SUPPLEMENTAL DATA

The city map of Fort Myers was used to identify street names.

Railroad plans for track layout in the City of Fort Myers were obtained from the A.C.L. and Seaboard Railroads.

LANDMARKS AND AIDS TO NAVIGATION

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

*Letter No 398
1942*

HYDROGRAPHIC CONTROL

Twenty-two unmarked hydrographic stations, bearing a short description, appear within the tracing limits of this sheet.

The following marked hydrographic stations also appear:

<u>STATION</u>	<u>DATE</u>	<u>ESTABLISHED BY</u>
Imp. (LTS)	1943	
Riv -	1943	K.G. Crosby
Nut -	1943	"
Mag -	1943	"
My -	1943	"
Pin -	1943	"
Gun -	1943	"
Gas -	1943	"
End -	1943	"
Geo -	1943	"
Stad (Δ, not being) -	1943	"
Alv. (LTS)	"	"

(LTS) 63 ft
Weather Tower 1943, KGC
Radio Mast (MAAC) " " 154 ft.

LANDING FIELDS AND AERONAUTICAL AIDS

Fort Myers Municipal Airport falls within the limits of this sheet.

COMPARISON WITH EXISTING TOPOGRAPHIC QUADS

No topographic quadrangle was available for comparison.

COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Coast & Geodetic Survey, Gulf Coast, Florida, San Carlos Bay and Caloosahatchee River Chart No. 473, published April 1930 and reissued January 1940 (scale - 1:40,000). The scale difference was too great for a thorough comparison, but no large disagreements were noted in the detail. Attention is called to the old highway bridge across the Caloosahatchee River about 350 meters upstream from the Seaboard Air Line Railway bridge. This bridge has been abandoned and all that is left is the piling. It should be deleted from the charts. This compilation should supersede the charted information.

Respectfully submitted,

Rudolph Wossett
Rudolph Wossett,
Prin. Photo. Aid

Forwarded by:

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

FOR RELEASE
TO BE DELETED } STRIKE OUT ONE

LANDMARKS OF PROTECTIVE SERVICE OFFICE
Tampa, Florida

October

5

I recommend that the following objects which have (have not) 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.

Chart	filled in	Nautical Charts Section	marked
Chart 1040	378	42	

filled in National Charts Section under
Chair's lot of 378-42

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.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Non-Floating Aids
to Navigation
Sheet No. T-5872

LANDMARKS FOR PHOTOGRAMMETRIC OFFICE
Tampa, Florida

~~TO BE CHARTED~~
~~TO BE DELETED~~ } 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 ~~(RECEIVED)~~ the charts indicated.
The positions given have been checked after listing.

372 (1942)

1943

Kenneth G. Crosby

Chief of Party.

GENERAL LOCALITY	Caloosahatchee River	POSITION						METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		LATITUDE			LONGITUDE								
		°	'	D. M. METERS	°	'	D. P. METERS						
Boat Ways Channel Bn. #1		26	39	868	81	51	1093	N. A. Sextant 1927	Jan. 1943	X	X		1255 473
"	"	"	"	891	"	"	1070	"	"	X	X		"
"	"	"	"	820	"	"	1034	"	"	X	X		"
"	"	"	"	812	"	"	1005	"	"	X	X		"
"	"	"	"	586	"	"	765	"	"	X	X		"
"	"	"	"	612	"	"	742	"	"	X	X		"
"	"	"	"	511	"	"	681	"	"	X	X		"
"	"	"	"	536	"	"	652	"	"	X	X		"
"	"	"	"	382	"	"	1376	"	"	X	X		"
"	"	"	"	408	"	"	1361	"	"	X	X		"
"	"	"	"	283	"	"	1019	"	"	X	X		"
"	"	"	"	310	"	"	1007	"	"	X	X		"
These beacons are not numbered and the above numbers were assigned in the Tampa Field Office for identification purposes.													

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 sheet. Information under each column heading should be given.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Non-floating Aids
to Navigation
Sheet No. T-5872

LANDMARKS FOR CHARTS

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

Tampa Photogrammetric Office
Tampa, Florida

Oct. 4, 1943

I recommend that the following objects which have (have not) 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.

398 (1942)

Kenneth G. Crosby													Chief of Party.	
GENERAL LOCALITY	Caloosahatchee River	NAME AND DESCRIPTION	POSITION				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	DATUM					
Caloosahatchee River Bn. 61			26	40	1614	81	50	61	N.A. Sextant	Jan. 1943	X	X		1255 473
"	"	"	"	"	1649	"	"	97	"	"	X	X		"
"	"	"	"	"	1239	"	"	495	"	"	X	X		"
"	"	"	"	"	1284	"	"	543	"	"	X	X		"
"	"	"	"	"	774	"	"	1041	"	"	X	X		"
"	"	"	"	"	814	"	"	1076	"	"	X	X		"
"	"	"	"	"	373	"	"	1507	"	"	X	X		"
"	"	"	"	"	422	"	"	1537	"	"	X	X		"
Old Highway Light			69	26	39	1721	81	51	417	"	"	X	X	"
Caloosahatchee River Bn. 70			"	"	1756	"	"	464	"	"	X	X		"
"	"	"	"	"	1255	"	"	888	"	"	X	X		"
"	"	"	"	"	1289	"	"	942	"	"	X	X		"
"	"	"	"	"	648	"	"	1313	"	"	X	X		"

Kenneth G. Crosby

Chief of Party.

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
Non-Floating Aids to Navigation - Sheet T-5872

LANDMARKS FOR CHARTS

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

Tampa Photogrammetric Office
Tampa, Florida

October 4, 1943

I recommend that the following objects which have (have not) 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.

398 (1942)

Kenneth G. Crosby Chief of Party.

GENERAL LOCALITY	NAME AND DESCRIPTION	POSITION			METHOD OF LOCATION	DATE OF LOCATION	CHARTS AFFECTED		
		LATITUDE - O I D. M. METERS	LONGITUDE O I D. P. METERS	DATUM			HARBOR CHART	INSHORE CHART	OFFSHORE CHART
Caloosahatchee River									
Caloosahatchee River Bn. 74		26 39	681	81 51	1354	N.A. Sextant Jan. 1943	X	X	1255 473
"	"	"	39	81 52	56	"	X	X	"
"	"	"	76	"	90	"	X	X	"
"	"	"	43	"	398	"	X	X	"
Bn 39	"	"	41	"	1690	"	X	X	"
Bn. 37, Cut-S, Rear Range		"	1352	"	1167	"	X	X	"
Bn. 37, Cut-S, Front Range		"	897	"	1605	"	X	X	"
Cut-R, Range Rear Bn. (Light 35)		"	904	81 53	260	Triangulation 1928	X	X	"
Light 35, Front Range		"	325	"	543	"	X	X	"
Cut Q, Range Rear, Light 33		"	207	"	796	"	X	X	"
Cut Q, Range Front, Light 33		"	37	"	1385	"	X	X	"
Bn 31 A		26 37	585	81 53	1200	Sextant Jan. 1943	X	X	"
Bn 31		26 36	1691	"	1393	"	X	X	"

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

Oct. 4, 1934

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

The positions given have been checked after listing.

398 (1942)

398 (1942)

Kenneth G. Crosby

Chief of Party.

[illegible]

PLANT

A - Pine
Cy - Cypress
Paco - Palmetto
Lain - Larch
D T - Deciduous trees (broad leaf)
Cit - Citrus (orchard)
Mx - Pine, cypress & Dec. trees
(Density)
Sc. - Scattered
Dm - Thinly mixed
Dm - Densely mixed
Ser. - Scrub trees

WATER

C - Cultivation
Gr - Grass
T. H. - Tall Tropical grass
H - Marsh (dashed blue line on
inshore limits)
M - Marsh (dashed blue line on
inshore limits)
W - Swamp
S - Mangrove
R - Ridge

LAND

Ca - Canal (width)
Cr - Creek
D - Ditch (width)
I - Intermittent stream
EDU - Probable drainage unurveyed
S - Ridge or symbol
Cy - Culvert
L - Lagoon
L - Lagoon
L - Lagoon
L - Lagoon
L - Lagoon

RAILROADS

RA 1 - Intermittent road (paved)
RA 2 - One side road
Tr - Trail
RR - Railroad
S P - Overpass (state the kind)
U - Underpass (state the kind)
X - Dashed trail, road, etc.
RA 3 - 1/2. Dashed (grade only)

ROADS

F - Ford
Cy - Cypress road
I - Intermittent road

SHORELINE

H. T. L. - Mean high waterline (solid red
line - West land)
L. T. L. - Low waterline (dashed red line)
L. L. - Light line (solid blue line for
mean high water line on marsh)
Dr. - Dock
Fr. - Pier
De. - Dredge
Sh. - Shallow
Co. - Canal
To - Tidal
J. - Jetty
Do. - Dolphin
P. - Pile (give type)
S. - Sand
L. - Land
R. - Rock or rocks
S. - Sandy
W. - Water
SLP - Surf (height)

BUILDINGS

H - House, barn or building
Ch - Church (give name)
Ct. - Court House (give name)
Po. - Post House
Po. - Post Office (give name)
R. S. - Railroad station (give name)
Hos. - Hospital (give name)
Sch. - School (give name)

STAGE LINES

F - Fence
T. - Fire break (maintained)
F. - Fire break (abandoned)
Gen. - Cemetery
Park - Park (give name)
Sh. - Shelter (state the kind)
H. T. - Hydro tower (give name)
T. T. - Transmission tower (give name)
D. L. - Ditch line

GEOGRAPHIC NAMES

Survey No.

T-5872

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.	
Florida	✓							USGB	1	
Caloosahatchee River	✓							"	2	
Atlantic Coast Line									3	
Seaboard Air Line									4	
U.S. 41/State 5			(northwest of Fort Myers)						5	
U.S. 41/State 27			(south of Fort Myers)						6	
State No. 25			(southeast of Fort Myers)						7	
State No. 183									8	
State No. 184			(apparently Anderson Ave. of sheet): eastward from Fort Myers)						9	
State No. 275									10	
State 2/25			north (east of Fort Myers)						11	
Punta Rasa	✓		(direction not on SW corner of sheet should be this rather than Rio Vista). It is end of State 25.						12	
Fort Myers	✓							USGB	13	
Mamel Branch									14	
Fort Myers Airport									15	
Lofton Island									16	
Edison Bridge									17	
Billy Creek	✓								18	
Lee County Fair Grounds									19	
East Fort Myers									20	
New Prospect									21	
Marsh Point									22	
Salviata									23	
Powell Creek									24	
Palmona Park									25	
Hancock Creek			(not Yellow Fever Creek)						26	
FORT MYERS street name from city Map.									27	

Division of Photogrammetry
Review of Planimetric Map T-5872

Radial Plot.

A test of radial intersections indicates an acceptable plot for this sheet.

Control is abundant.

Field Inspection and Detailing.

The field inspection was generally adequate. However, it has been necessary during the review to add a number of details omitted by the compiler. These are shown in red and include numerous buildings in the vicinity of Fort Myers and a number of pilings and small piers along the south shore.

Comparison with Previous Surveys.

T-4282	1:10,000	1927
--------	----------	------

The whole waterfront of the Fort Myers area has undergone innumerable changes, both natural and cultural.

The manuscript and the survey have only a general agreement. Lofton Island is greatly enlarged.

T-5872 supersedes T-4282 over the common area

Comparison with Nautical Charts.

T-5872 was applied to chart 1255 before review. Changes made during the Washington Office review are shown in red on the manuscript and include small features along the shore which should be applied to the chart when it is again taken up for correction.

Attention is called to the following prominent objects:

Radio Mast WAAC listed as a landmark is 154 feet high.

The Weather Tower shown as a topographic station at Lat. $26^{\circ}38.8'$ Long. $81^{\circ}52.3'$ was not reported as a landmark but is of interest to charts. This weather tower is 83 feet high.

Reviewed by:

Lena T. Stevens
Lena T. Stevens
Photogrammetrist
Feb. 5, 1946

Reviewed under direction of:

S. V. Griffith 7/16/47
S. V. Griffith
Chief, Review Section

APPROVED BY:

B. J. Jones 7/47
Technical Assistant to the
Chief, Div. of Photogrammetry

J. H. Edmundson
Chief, Nautical Chart Br.
Division of Charts

K. T. Adams
Chief, Div. of Photogrammetry

C. K. Green
Chief, Division of Coastal
Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T-5872

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.