

5889

Dia'd. on Topo Dia. Ch. No. 1255

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey **Photogrammetric
Shoreline Survey**

Field No. **T-5889** Office No.

LOCALITY

State **Florida**

General locality **Glades County**

Locality **Florida Cross State Canal**

Fort Myers to Lake Okeechobee, Fla.

Date of photos. **Dec. 21, 1939.** Supple-
mented by ground surveys to Nov. 1942.
1943

CHIEF OF PARTY

Lieut. Comdr. Kenneth G. Crosby

LIBRARY & ARCHIVES

DATE

Aug 2 - 1946

5889

DATA RECORD

T- 5889

Quadrangle (II):

Project No. (II): HT 242-D

Field Office: Tampa, Fla.

Chief of Party: K. G. Crosby

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

Instructions dated (II III): April 3, 1940 Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office: 6/43

Reported to Nautical Chart Section: 1/45

Reviewed: 3/30/44 Applied to chart No. Date:

Redrafting Completed: 3/46

Registered: 7/46 Published:

Compilation Scale: 1:10,000 ^{Printed} Published Scale: 1:10000

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927 Datum Plane (III): M.S.L.

Reference Station (III): Bess (USE) 1937

Lat.: 26° 46' 05".883 (181.1m) Long.: 81° 13' 21".369 (590.4m) Adjusted
~~Unadjusted~~

State Plane Coordinates (VI):

Fla. East Zone:

X = 427,366.85 ft.

Y = 889,974.06 ft.

Military Grid Zone (VI)

None

STATISTICS (III)

Land Area (Sq. Statute Miles): 11.8

Shoreline (More than 200 meters to opposite shore): none

Shoreline (Less than 200 meters to opposite shore): 4.0

Number of Recoverable Topographic Stations established: 5

Number of Temporary Hydrographic Stations located by radial plot: none

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:

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
4422	12/21/39	11:00	1:10,000	No tide
4423	"	11:01	1:10,000	"
4424	"	11:01	1:10,000	"

Tide from (III): no tide

Mean Range:

Spring Range:

Camera: (Kind or source) U.S.C. & G. S. 9 lens

Field Inspection by: H. A. Duffy, Prin. Photo. Aid date: Nov. 1942

Field Edit by: date:

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

Projection and Grids ruled by (III) J. O'N Wash. Office date: 2/6/43

" " " checked by: Wash. Office date: 2/6/43

Control plotted by: K. G. Crosby, Chief of Party date: 2/16/43

Control checked by: E.M. Bower, Photo. Aid date: 2/16/43

Radial Plot by: Tampa Office Personnel date: 2/24/43

Detailed by: / Ben O. Bryant, Sr. Photo. Aid date: May & June, 1943
Harl G. Bortis, Photo Aid

Reviewed in compilation office by: J. A. Giles, Asst. Photo. Engr. date: 6/5/43

Elevations on Field Edit Sheet checked by: date:

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T 5890
5889

CONTROL

There is only one Triangulation Station within the limits of this sheet; namely, Bess, (USE) 1937. Triangulation Station Maud (USE)-1937 which is just outside the eastern limits of this sheet was used as control and to cut in additional radial points.

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-5888.

DETAILING

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

Field inspection was adequate for detailing of this sheet.

All photographs were generally clear and of good scale.

SUPPLEMENTAL DATA

No other surveys, maps, or plans were used to supplement photographs except in determination of destination of highways. In this case the General Highway map of Glades County Florida was used.

HYDROGRAPHIC CONTROL

There are no unmarked Hydrographic Stations within the limits of this sheet.

The following U.S.E. Traverse Stations, established by radial line intersections and appearing along the Caloosahatchee Canal appear on this sheet. As no geographic positions were available for these stations their positions were established by the main radial plot and have been scaled and entered on Form 524.

Station	Date	Est. by
420 + 00	1935	U. S. E.
500 + 00	1935	U.S.S. E.
540 + 00	1935	U. S. E.

Also Coast & Geodetic Survey B.M. T-72 1934, and B.M. U-72-1934 appear on this sheet.

COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

There were no topographic quadrangles of this area available for comparison.

COMPARISON WITH NAUTICAL CHARTS:

No nautical chart covering this area was available for comparison.

Respectfully submitted,
Ben O. Bryant
Ben O. Bryant,
Sr. Photogrammetric Aid

Forwarded by:
Kenneth G. Crosby
Kenneth G. Crosby
Lieut. Comdr.

	Remarks	Decisions
1		268809-811
2	Extent of application of this name is pending with the U.S.G.B., as well as the general name	"
3	to be applied to the entire waterway across Florida.	
4		Road Maps
5		"
6		
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GEOGRAPHIC NAMES

Survey No. T-5889

Name on Survey	Source										
	A	B	C	D	E	F	G	H	K		
Lake Hiopochee											1
Caloosahatchee Canal											2
											3
Fla. Highway No. 25											4
Fla. Highway No. 142											5
Glades County											6
											7
											8
Moore Haven											9
	(used in direction notes)										
Citrus Center	("		"	")					10
La Belle	("		"	")					11
Clewiston	(.		.	.)					12
											13
											14
											15
Suggest that title for this sheet should be amended to											16
General locality:											17
											18
Locality	P										19
											20
											21
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											26
											27

Changes underlined in red approved
 by L. Heck on 8/6/43

DIVISION OF PHOTOGRAMMETRY

REVIEW OF SHORELINE SURVEY T-5889

Radial Plot:

The radial plot for the planimetric maps T-5883 to T-5889 inclusive, along the Caloosahatchee Canal west of Lake Okeechobee to the northeasterly limits of Fort Myers, Florida, was laid on adequate control at the easterly and westerly extremities but lacked a sufficient number of control stations between the fixed ends. This radial plot spanned a distance of approximately forty miles, tied to only eleven stations between the fixed ends, the stations spaced at intervals of approximately four and one-half miles.

The USED had run a traverse along the canal and with the existing eleven USC&GS stations in the area, Lt. Comdr. Crosby had hoped to have adequate control upon which to lay a well controlled plot. The USED stations were identified on the field inspection photographs and the plane coordinate positions of the stations were obtained from the USED at Jacksonville, Florida. Attempts were made to convert the positions of these stations to geographic values so that they could be plotted on the map bases and used to control the aerial photographs.

However, after spending considerable time attempting to convert the values to geographic coordinates, Lt. Comdr. Crosby concluded that the values could not be obtained in time to complete the radial plot and compilation on schedule and ordered the plot laid on the USC&GS stations.

The radial plot and resulting compilations do not meet with usual Bureau standards. Accumulating errors in azimuth and distance amounting to 2 to 3 millimeters probably exist in these sheets, but relative local errors are negligible.

Investigation of the USED traverse along the Caloosahatchee Canal leads to the conclusion that even though this control might be found to be adequate for control, the effort of obtaining the necessary information from the USED, computing and possibly affecting additional ties to USC&GS stations, replotting the aerial photographs, and recompiling or revising the compiled sheets would not be practical, nor would it materially improve the nautical charts prepared from these sheets.

The basic map data of these sheets have been used in the preparation of nautical chart 1289. The scale of these compiled sheets is 1:10,000 and the nautical chart 1:80,000. Because of the great reduction in scale between the base maps and the compiled nautical chart, the latter is probably sufficiently accurate.

Therefore, the sheets T-5884 to T-5889 inclusive, will be treated as shoreline sheets only. They are not to be published for distribution but will be drafted and printed for Bureau use exclusively with the possible exception of T-5883, which, after the review is completed, may be found to meet current map specifications.

Field Inspection and Detailing:

Adequate

Comparison with Other Surveys:

There are no other contemporary or previous surveys of this Bureau in the area.

Comparison with Nautical Charts:

T-5889 was applied to Chart 1289 in 1943 prior to this review. No changes have been made during the review which affect the chart.

Reviewed by L. V. Evans

Under the direction of D. H. Benson

Review report prepared by B. G. Jones, July 1946, from reviewer's notes.

APPROVED BY:

B. G. Jones
B. G. Jones, Technical Asst.
Div. of Photogrammetry

K. T. Adams
Chief, Div. of Photogrammetry

Robert W. Stone
Chief, Nautical Chart Branch
Division of Charts

Raymond P. Evans
Chief, Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. *7-5889*

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
<i>11-19-'48</i>	<i>1289</i>	<i>M. G. Andrews</i>	Before After Verification and Review
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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.