FORM 504 Rev. June 1941 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT Air Photographic Sheet France & T-5919
Plane Table Hydrographic Finally No. T-5919 (Field)
LOCALITY
State Florida
General localityEast Coast
Locality St. Lucie Inlet
and Vicinity Photos taken 1/9/19+0
194_2
CHIEF OF PARTY
Lieut: Comdr. Kenneth G. Crosby

315551

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applied to Chart 846 before review Oct 15, 1942 HEM.

1112 Feb. 10, 1944 R.

"" 1247 after review Mar. 18, 1949 SHE.

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TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

		Field No					
		REGIS	TER NO. T-59	19			
State	Florida						
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Locality	St. Luci	e Inlet	***********				
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Inked by	M. M. S	la⊽ney, Sr.	Engineering	z Draftsman			
Heights in	feet abo	ve	to groun	d to tops	of trees		
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Instruction	ns dated		April 3		, 19. 4 0	•	
Remarks:	~~~~~~						

TO ACCOLPANY SHEET - T-2-25919

GENERAL

This sheet was compiled from nine - lens aerial photographs in accordance with "Instructions for Drafting Air Photographic Surveys, Project H. T. 242" dated April 3, 1940.

The general locality of the area covered by this survey sheet is Florida East Coast in the vicinity of St. Lucie Inlet and the village of Salerno.

Land areas east of the Indian River and Great Pocketare preponderantly covered with scattered palm and pine. Some patches of abandoned cultivation are noted. The shoreline of these areas is primarily sand beach on the side fronting the Atlantic Ocean; the shoreline adjacent to the Indian River and Great Pocket is generally mangrove covered but detailed with some exceptions as stable because these areas have been or are being drained.

Land areas west of the Indian River and Great Pocket are almost wholly stable with pine, Palm, deciduous trees and brush comprising the vegetation. The portion of the survey south west of the Florida East Coast Railroad is generally low lying land with sandy, brush covered ridges.

Mention is made here of the practice of detailing as stable shoreline areas that have a very narrow fringe of mangrove that in most instances is merely growing at the edge of the waterline. Areas of vegetation with varying density and identity were shown with symbols; labels were used in areas of uniform makeup.

Approximate mean low water is shown by a dotted line. The approximate limits of shoal areas are shown by a dashed line. These features are shown for the use of the hydrographer only.

All small islands are mangrove unless otherwise noted.

All roads on this sheet are to be shown 0.6 m.m. wide.

CONTROL

Control for this sheet consists of the following U. S. Coast and Geodetic Survey Triangulation Stations:

NAME OF STATION	YEAR	established by
REFUGE 2 SEWALL U.S. E. TANK JETTY SNAKE	1934 1898 - 1934 1930 1930 1930	J. B. Jr. U. S. ENGINEERS C. A. E. C. A. E. C. A. E.

CONTROL	Continued
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NAME OF STATION	YEAR	ESTABLISHED BY
LONG	1930	C.A.E.
BAKER	1930	C. A. E.
SWAN	1930	C.A.E.
CRAB	1930	C.A.E.
FAY	1930	C.A.E.
JOE	1930	C.A.E.
SURF	1934′	J. B.
HIGH	1929	J. S.
PECK	1934	J.B. Jr.

MAIN RADIAL PLOT

A continuous radial plot was run on April 22,- 24, 1942 inclusive, for the purpose of locating all photograph centers, all hydrographic stations, topographic stations, bench marks, azimuth marks, and radial points. The plot extended over the area covered by sheets T-5912 to T-5919, inclusive. All photographs in the area were used. It extends along the St. Lucie Canal from Stuart, Florida, South and westward to Lake Okeechobee at Port Mayaca. Photographs 4591, 4583 and 4584 are the northeast limits and photo 4564 forms the westerly limits.

The plot consisted of 37 templates all being for 9 lens photographs and being controlled by triangulation stations as follows: 1 by 0; 12 by 1-2; 9 by 3; 8 by 4-8; 7 by 9-13. These templates were made in accordance with "Notes on Radial Plotting of nine-lens Photographe", dated April 9, 1940.

The control afforded by first and second order triangulation was sufficient on sheets T-5919, T-5918, T-5917 and T-5912. Triangulation control was very meagre on sheets T-5913, T-5914, T-5915 and T-5916, but it was felt that additional field observations were not necessary.

The usual practice of laying the plot was followed. This consisted of plotting the control on the survey sheets and then transferring it to the base grid sheets by matching grid squares. The agreement between the grid lines on the survey sheet and those on the base grid was excellent and no adjustment was necessary. After laying the plot, the intersections of the radial lines were transferred to the survey sheet by again matching grid squares as previously described.

The plot was layed only once with the exception of those templates on sheets T-5914 and T-5915. The laying of the plot began with the templates on sheets T-5917, T-5918 and T-5919 and proceeded southwest to triangulation station "Allen" on sheet T-5916. These templates were rigidly controlled. From that point to sheet T-5912 the templates were layed by holding intersections of radial lines and azimuth, and due to lack of control the templates on sheets T-5914 and T-5915 had to be layed three times before a satisfactory tie-in of control on sheet T-5912. The agreement along the flight line and the intersections of radial lines to adjacent photographs was excellent, with exceptions as noted in this paragraph. About 98 percent of the points established by the plot resulted from the intersection at a common point, of three to six radial lines.

The remaining 2 percent are instances where only two "cuts" could be obtained. These are mostly out on the wings of the photographs and while the value of the intersection will be determined by the draftsman, it is believed that the majority of them will be outside the detailing limits. In six or eight instances the point was selected at the center of gravity where the radial lines did not form a common intersection. In no case were the sides of the triangle of error greater than 0.25 m.m. away from the point selected.

The condition in the preceeding paragraph apply to seven of the eight sheets of this plot. The other sheet (T-5814) was the weakest" of the plot, insofar as control is concerned, and a common intersection of radial lines was not obtained in some instances on the northern half of the sheet. There are fourteen of these instances and in each case the "cuts" were transferred to the survey sheet for further investigation by the draftsman. The points on the southern part of the sheet were picked at common intersections and after the draftsman has made further investigation, it is believed the detailing will be accomplished with the desired accuracy.

To summarize - the plot is considered "strong;" no large or unusual adjustments were necessary; and that all points are picked withw0.25 m.m. of their true position.

Various colored inks were used on the photographs and survey sheets to designate triangulation stations, topographic and hydrographic stations, and radial points.

The following key is furnished for future reference:

Photographs

Triangulation and traverse stations.....2.5 mm blue circle Hydrographic and topographic stations....2.5 mm green circle Radial points in main plot2.5 mm red circle

Survey Sheets

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INTERPRETATION OF PHOTOGRAPHS

Photographs were generally clear and of good contrast and no difficulty was experienced in the interpretation of the photographs.

FIELD INSPECTION

The field inspection was made by Lieut. James D. Thurmond, and Harold A. Duffy, Sr. Photogrammetric Aid, in January and February 1942.

The field notes were generally sufficient.

DETAILING

The acetate was prepared for inking by rubbing with dry magnesium carbonate and then washing with water. No additional cleaning has been necessary.

All ditches as detailed on this sheet should be shown on the finished print.

Mention is here made of the method used in compilation and detailing of the land area east of the Indian River. This area extends from triangulation station, SURF - 1934, southeast to triangulation station, JETTY 1930. Insufficient photograph coverage made it possible to obtain only two cuts on radial points in this area. Therefore, the compiler controlled this portion of the survey by holding the triangulation in azimuth and adjusting for the existing two cut intersections. All control picked on the photographs was checked for accuracy and all of the work in this area was done very carefully. The area covered in this survey has been previously surveyed on sheet number 4542 compiled by the U. S. Coast and Geodetic Survey from aerial photographs by the U. S. Army Air Corps on April 29, 1929 on a scale of 1:20,000. The necessity of enlargement from 1; 20,000 to 1: 10,000 would of itself magnify any errors in the compilation of sheet 4542 and it is possible that in the small scale survey some of the detail found in the present survey escaped notice. Should sheet 5919, be reduced to 1:20,000 it is certain that error in geographical position of any point on the sheet will not exceed 3 m.m. It is, therefore, the opinion of the compiler that this survey, sheet 5919, replace sheet 4542 for further chart purposes.

JUNCTIONS

This sheet joins sheets T-5916, 5917, and 5918 on the west. All junctions are in good agreement.

COLPARISON WITH OTHER SURVEYS

This has been previously covered under paragraph entitled "Detailing."

NON FLOATING AIDS.

Some of the non-floating aids in the area covered by this sheet were located by sextant fixes; those remaining were located by main radial plot. The aids not shown on charts of this area are listed on form 567 and made a part of this report.

Beacon "11," in St. Lucie River as shown on Chart 1247 was nonixistant at the time of the field inspection.

GEOGRAPHIC NAMES

The investigation of geographic names is incorporated in the special report entitled "Investigation of Geographic Names, Florida East Coast, St. Lucie River, Lake Okeechobee and Cross State Waterway;" submitted to the Washington Office by Harold A. Duffy, Sr. Photogrammetric Aid.

LAND MARKS

There are listed on Form 567 landmarks which should be deleted but which are now shown on Chart No. 1247. The deletions from Chart 1247 are made because the air photo compilation for this sheet shows that the houses at Latitude 27° 11' 3 " Longitude 80° 09' 45 ", Latitude 27° 13' 05 " Longitude 80° 12' 10" has been destroyed; the house at Latitude 27° 10' 45 " Longitude 80°11' 20" is obscured to seaward by a line of palms and the clump of trees at Latitude 27009' 40" Longitude 80010' 25" is of too general distribution.

NON FLOATING AIDS

On another sheet of Form 567 are listed non floating aids to navigation that are not shown on the latest issue of Chart 1247

Respectfully submitted

Milton M. Slavney,

milton m. S.

Sr. Eng. Draftsman

SUPPLEMENTARY SURVEYS

	Name	. Date	Hours
Control Surveys	JEH-WHS :	Mar & Apr	9
Planetable Surveys		Total	9
FIELD INSPECTION			7 ·
Preparation of Photographs			9 1/4 3 137
Inking Notes	HAD FIRE	JAN.	72
Coast Pilot Notes	HAD PHE	JAN.	12
Geographic Name Reports	บลา อเมอ	JAN & MAY	10
Landmarks for Charte	HAU FRE	JAN & MAI	1 -0
Description Cards	HAD .	JAN.	45 ½
Recovery Notes			
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Control Checked on Photographs:	JEH CAJP	Feb.	· 15 • 31
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Radial Points Picked	JEH	Mar.	• 7 <i>5</i> /4
Adjacent Centers Picked	JEH- HUB- CAJP	reo.	: 6
Templates	HVR- CAUP	Apr.	17
Radial Plot	KGC- WHS-JEH	Apr.	‡ 3
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SHIET NO. T-5919

PHOTOGRAPHS

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Camera: U. S. Coast and Geodetic Survey Nine-Lens (focal length Sc inches) Negatives on file at the Washington Office.

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Datum: N. A. 1927 Longitude: 80°11: 21,432 "(590.1m)

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Division of Photogrammetry

Review of Planimetric Map T-5919

This map was compiled in the Tampa Office and the manuscript was received in Washington in September 1942. However, the Washington Office processing was delayed by war map work of the Bureau and was not completed until 1947.

Field Inspection and Detailing.

These were generally adequate. Only a few minor changes were made during the review and are shown on the manuscript in red.

Comparison with Previous Surveys.

T-5919 supersedes the following surveys except for the item listed below:

T-1652	1883	1:20,000	•
4542	1930	1:20,000	
* 4533	1930	1:10,000	Graphic
4534a&b	1930	1:10,000 - 1:20,000	Control
4535	1930	1:20,000)

* At Lat. $27^{\circ}09^{\circ}.8$, Long. $80^{\circ}10^{\circ}.2 - 01d$ piling on 4533° not shown on T-5919. — see L 16 (1948)

Comparison with Nautical Charts.

T-5919 was applied to Chart 846 prior to review. The following changes to T-5919 were made during the review and are shown in red on the manuscript:

Three net racks were added about Lat. 27008.75 Long. 80011.7

Several small docks or cat walks were added about Lat. 27008'.9, Long. 80011'.8

Three small docks were added about Lat. 27°09'.5 Long. 80°11'.8

St. Lucie Beacon #11 is not shown on T-5919. It was reported missing at time of field inspection (Chart letter #839). It is shown on Chart 846.

Review under the direction of D. H. Benson in December 1943.

Report prepared from reviewer's notes by B. G. Jones, May 1947.

APPROVED BY:

Technical Assistant to the Chief, Div. of Photogrammetry

Chief, Nautical Chart Br. Division of Charts

Chief, Div. of Photogrammetry

Chief, Div. of Coastal Surveys