

5830

Diag. on Diag. Ch. No. 1257-2

5830

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Planimetric Map
Field No.	T-5830
Office No.	
LOCALITY	
State	Florida
General locality	Florida West Coast
Locality	St. Petersburg
Date of photos - Dec. 12, 1939.	
Supplemented by other surveys to	
Oct. 1941	1942
CHIEF OF PARTY	
Lieut. Kenneth G. Crosby	
LIBRARY & ARCHIVES	
DATE <i>Aug 22 - 1946</i>	

Applied to Chart 587 before review October 7, 1942 L.A.M.
" " " 1257 " " October 12, 1942 L.A.M.
" " " 586 " " December 4, 1942 K.R.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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.

SHEET NO..T-5830

Field No.

REGISTER NO.

State Florida

General Locality West Coast

Locality St. Petersburg

Scale 1:10,000 Date of ^{photos.} ~~Survey~~ December 12, 1939

Vessel Air Photographic Party No. 1

Chief of party K. G. Crosby,

Field Inspected: Lieut. (j.g.) J. D. Thurmond,

Surveyed by Harold A. Duffy, J. C. McGuire

Inked by James H. S. Billmyer

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated September 3, 1941

Remarks: _____

E

SUPPLEMENTARY SURVEYS

	Name	Date	Hours
Control Surveys	KMS MMS	May and July	16 1/2
Measurable Surveys			
Total			16 1/2

FIELD INSPECTION

Preparation of Photographs	KWS	Feb. and March :	31
Field Work	JDT HAD JHSB	May and November :	72
Inking Notes	JDT HAD	June :	7
Coast Pilot Notes.....		:	
Geographic Name Reports	JED JDT LJD	June and July :	5 3/4
Landmarks for Charts		:	
Description Cards.....	JDT HAD	:	
Discovery Notes		May and June :	68
Total			183 3/4

MAIN RADIAL PLOT

Scale Plot	KGC LJD	June	3
Projection on Base Sheet	Washington Office		
Projection on Survey Sheet			
Control Plotted	KGC	July	5
Control Checked	JED	July	5 1/2
Control Trans. to Base Sheet	RHY	July	1/2
Transfer Checked	JED	July	1/2
Control picked on Photographs	JED LJD	June	38 1/2
Control checked on Photographs	KMS LJD	June	10 1/2
Hydro. & Topo. Stations Picked	LJD JED KMS	June	24
Radial Points picked	X	June	31
Adjacent Centers Picked	JED	May	41
Templates	JHSB	July	17 1/2
Radial Plot	KGC RD RHY	July	10 1/2
Radial Points transferred	RHY RD JED	July and Aug.	7
Transfer checked	JAG RD	July and Aug.	6
H & T Stations scaled & checked	JHSB VHS	January	12
Additional Radial Points			
Total			212 1/2

DETAILING

Rough Draft			
Smooth Draft	JHSB	Aug and Feb.	599
Total			599

COMMISSION

Name Overlay	JHSB	January	31
Descriptive Report	JHSB	January	14
Field Review	KGC	February	31 1/4
Total			76 1/4

Total time spent on Sheets..... 1088 hours.

PHOTOGRAPHS

NUMBER	DATE	TIME	STAGE OF TIDE
4171	December 12, 1939	10:03	-0.8
4172	" " "	10:03	" "
4188	" " "	10:17	" "
4189	" " "	10:18	" "
4190	" " "	10:19	" "
4196	" " "	10:29	" "
4197	" " "	10:29	" "
4198	" " "	10:30	" "
4203	" " "	10:35	" "
4204	" " "	10:36	" "
4211	" " "	10:41 approx	" "
4213	" " "	10:42 "	" "
4216	" " "	10:43 "	" "
4219	" " "	10:43 "	-0.7

Tide from predicted tables for : St. Petersburg, Florida.

Camera: U. S. Coast and Geodetic Survey Nine-Lens (focal length $8\frac{1}{4}$ inches)
Negatives on file at the Washington Office.

SCALE

Mean scale of Photographs..... 1:10,000 \div 0.9985
Scale of Survey Sheet..... 1:10,000

STATISTICS

Area (land)..... 30.30 Square Stat. Miles
Shoreline (more than 200 m. from opposite shore)..... 21.1 Statute miles
Shoreline (creeks)..... 6.6 Statute miles
Roads, streets, trails, and railroads..... 504.3 Statute miles.

REFERENCE STATION

Station: Central, 1934 Latitude: 27° 46' 16.559(509.7m) *adjusted*
Datum: N. A. 1927 Longitude 82° 38' 18.361(502.7m)

Florida System of Plane Coordinates (West Zone)	
x coordinate:	293,544.19 feet
y coordinate:	1,250,030.30 "

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T---5830

GENERAL

This sheet was compiled from nine-lens photographs and smooth drafted after special permission to do so was received from the Director in a letter dated September 3, 1941.

The locality of the area covered by this sheet is St. Petersburg, Florida.

With the exception of some small areas wooded with mangrove, practically all of the shoreline has been developed, but some of the developed areas are practically unsettled.

Railroads were marked on the photographs with the help of blue prints furnished by the Seaboard Airline and Atlantic Coast Line Railroads. These plans are forwarded with the sheet for purpose of checking, etc.

Additional buildings and shoreline changes in the vicinity of Albert Whitted Airport were detailed from a single lens photograph furnished by the St. Petersburg Coast Guard Station. This photograph is submitted with the nine-lens photographs. *This photo could not be found to check detail, but T5830 has been compared with T8387 & looks to be correct*

Enough street names are shown on the name overlay to help orient the city map of St. Petersburg, which is submitted with the sheet.

Practically all buildings in the outlying districts have been shown, with the exception of densely populated areas within definite street layouts, in which case these areas have been left blank.

The topographic station at Mermaid Point could not be identified as field print No. 4202 has already been returned to the Washington Office with Sheet No. T-5828. It is requested the Washington Office label this station on the overlay.

CONTROL

Sixteen triangulation stations and thirty-one traverse stations fall on this sheet and were used for control. The following twenty traverse and sixteen triangulation stations fall within the tracing limits.

<u>Station</u>	<u>Year</u>	<u>Established by</u>
Y-41	1934	Fla. Mapping Project
Y-42	1934	Fla. Mapping Project
Y-43	1934	Fla. Mapping Project
Y-44	1934	Fla. Mapping Project
Y-45	1934	Fla. Mapping Project
Y-46	1934	Fla. Mapping Project
Y-49	1934	Fla. Mapping Project
Y-50	1934	Fla. Mapping Project
Y-60	1934	Fla. Mapping Project

<u>Name of Station</u>	<u>Year</u>	<u>Established by</u>
✓ Y-61	1934	Fla. Mapping Project
✓ Y-62	1939	Fla. Mapping Project
✓ Y-97	1939	Fla. Mapping Project
✓ Y-98	1939	Fla. Mapping Project
✓ Y-99	1939	Fla. Mapping Project
✓ Y-100	1939	Fla. Mapping Project
✓ Y-101	1939	Fla. Mapping Project
✓ Y-102	1939	Fla. Mapping Project
✓ Y-103	1939	Fla. Mapping Project
✓ Y-108	1939	Fla. Mapping Project
✓ Y-122	1939	Fla. Mapping Project
ASPLIN	1934	G. L. Anderson
CENTRAL	1934	G. L. Anderson
SOR	1925	R. P. Eyman
ST. PETERSBURG, CLARKS SUNSET GOLF COURSE, clubhouse tower	1934	G. L. Anderson
ST. PETERSBURG, CLARKS SUNSET GOLF COURSE, red water tank	1934	G. L. Anderson
ST. PETERSBURG, FIRST METHODIST CHURCH, carillon tower, finial	1934	G. L. Anderson
ST. PETERSBURG, FLORIDA POWER CORP., red brick stack (POW, 1925)	1934	R. P. Eyman
ST. PETERSBURG, MUNICIPAL GAS PLANT, red brick stack	1934	G. L. Anderson
ST. PETERSBURG, MUNICIPAL PIER, BUILDING at east end, cupola, flagpole	1934	G. L. Anderson
ST. PETERSBURG, MUNICIPAL POWER PLANT, silver water tank	1934	G. L. Anderson
ST. PETERSBURG, MUNICIPAL TANK, (13th Avenue North and 5th Street)	1934	G. L. Anderson
ST. PETERSBURG, ST. PETERS EPISCOPAL CHURCH, SPIRE (SPIRE, 1926)	1934	R. L. Schoppe
ST. PETERSBURG, SCHOOLHOUSE CUPOLA	1908	W. B. F.
ST. PETERSBURG, SIBLEY HOUSE, tower	1908	W. B. F.
ST. PETERSBURG, SOUTHEAST BASE	1933	G. L. Anderson
ST. PETERSBURG, VINOY PARK HOTEL, cupola, (Vinoy, 1926)	1934	R. L. Schoppe

Four triangulation stations have been omitted from the sheet as they have been destroyed, namely CHURCH 1926; DETROIT HOUSE, tower, 1908; WATER WORKS, stand pipe, 1908 and white concrete stack with letters "ICE" on the top (ICE, 1925 1934)

A thorough search was made in the vicinity of the geographic position of triangulation station "BIG 1926". No tank, or evidence of a tank ever being there, was found. The nearest tank is approximately 580 meters Southwest of the position and is described in the 1933 recovery notes for "BIG" by J. S. Bilby. This tank was located by the radial plot and is shown on the sheet. Station "BIG 1926", has been omitted from this sheet.

*Shoppe's 1926 topo. survey shows that
Big 1926 did exist in position listed. Benson.*

MAIN RADIAL PLOT

A continuous plot was laid on July 28 - 30, 1941 for the location of radial points, hydrographic and topographic stations, bench marks and azimuth marks on Sheets T-5826 to T-5833, inclusive. It extended Southward from a northern limit formed by photographs 3828, 3995, 3916, 3954, 3974, 4185, 4176 and 4200 where it formed a satisfactory junction with the previous main radial plot. The plot consisted of 63 templates, all of which were controlled by triangulation or second order traverse. Four templates had 3 to 5 control stations; eighteen templates had 6 to 10 control stations; thirty-three templates had 10 to 20 control stations and eight templates had 20 to 30 control stations. The latter being in the vicinity of St. Petersburg. All traverse stations of the "Y" series used for control of the plot were established and located by the Florida Mapping Project and were considered to be of second order accuracy. In several instances, triangulation established by the U. S. Engineers has been used for controlling the plot in conjunction with U. S. Coast and Geodetic Survey triangulation and traverse control. The order of accuracy for the U. S. Engineers triangulation is not definitely known, although their office has advised that it is probably about third order.

No large or unusual adjustments were necessary in any part of the plot. Agreement along the flight line was excellent and the intersection of radial lines to adjacent centers, checked the actual center of the template very closely.

The templates were made in the usual manner and in accordance with "Notes on Radial Plotting of Nine-Lens Air Photographs", dated April 9, 1940. All hydrographic and topographic stations whether marked or unmarked were established by the main radial plot. A great number of radial points were established to alleviate the necessity of the draftsman establishing additional points.

The usual practice of laying the main plot was followed. This consisted of plotting and checking the control on the survey sheets and then transferring these points to base grid sheets by matching individual grid squares. The amount of adjustment in each individual grid square was negligible but amounted to about .5 m.m. in some cases for the entire length of the sheet. The grid sheets were securely taped to the plotting table and allowed to remain for 48 hours before any templates were laid. Before laying the templates, the base grids were examined for movement and the necessary adjustments made to reduce or remove the discrepancies along the matched grid lines. After laying the templates all points were transferred to the survey sheet by again matching individual grid squares between the base grids and the survey sheets.

All points located by the radial plot on this sheet have been determined by the common intersection of four or more radial lines and in some cases, in the vicinity of St. Petersburg proper, by as many as seven and eight radial lines. The intersections were excellent and templates for photographs 4211, 4213, and 4216 were not required, or used, since the points in this area were sufficiently well located by other previously laid templates. The locations determined by this plot are believed to be less than 0.2 m.m. from their true location.

Various colored inks were used on the mounted office prints and on the survey sheets to designate triangulation, traverse and topographic stations, etc. The following key is furnished for this information.

Photographs (Office Prints)

Triangulation and Traverse Stations....2.5 mm blue circle
Marked Hydro. and Topo. Signals.....2.5 mm green circle
Radial Points (Main Plot).....2.5 mm red circle
Radial Points (Additional).....3.5 mm red circle
Photograph Centers.....Double circle

Survey Sheet

Triangulation Stations.....3.5 mm high black triangle
Hydro. and Topo Stations.....2.5 mm black circle
Radial Points (Main Plot).....2.5 mm blue circle on back of sheet
Radial Points (Additional).....3.5 mm blue circle on back of sheet
Radial Points (Questionable).....3.5 mm green circle on back of sheet.

INTERPRETATION OF PHOTOGRAPHS

The photographs were clear and no trouble was experienced in their interpretation.

FIELD INSPECTION

The field inspection was made by Lieut. (j.g.) J. D. Thurmond; James C. McGuire and Harold A. Duffy, Photogrammetric Aids by truck during May and June 1941.

The legend used by the field inspector has been made a part of this report.

Field notes were sufficient except in some cases, which were investigated by the compiler.

NON-FLOATING AIDS

Cut G Range lights and Port of St. Petersburg, Range Rear Light, were located by radial plot.

The pierhead, Municipal Pier, and Yacht Basin Range Lights were picked direct on office photographs 4196 by the compiler who investigated the lights in the field on January 16, 1941. All other lights, beacons and channel lighted Buoy "1" were located by sextant angles taken from the shore on the same date. The angles as observed are listed on back of field print No. 4216. Central Yacht Basin Range Rear Light is shown on chart 587 as being on a square hotel tower, (Triangulation Station "SOR, 1925"). This light is actually on the last parapet of the hotel about three meters from the Southeast corner

Although all lights and beacons are shown on the chart, Form #567, "List of non-floating Aids", is submitted for their present positions.

JUNCTIONS

This sheet joins T-5827 and T-5828 on the North; T-5829 on the West and T-5831 and T-5832 on the South. All junctions agree very well.

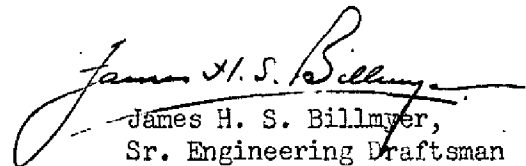
GEOGRAPHIC NAMES

The investigation of geographic names on this sheet is the subject of a special report entitled "Investigation of Geographic Names - Anclote Keys to the Entrance of Tampa Bay", submitted to the Washington Office by Lieut. (j.g.) James D. Thurmond, Jr. H. & G. Engineer.

LANDMARKS

In addition to the non-floating aids; three radio masts, a church dome (NEW 1941), and a new stack next to the one shown on the chart at the Southeast corner of Bayboro Harbor, (Triangulation Station ST. PETERSBURG, FLORIDA POWER CORP., red brick stack, 1934), are listed on the attached Form 567 and it is recommended they be charted as landmarks.

Respectfully submitted,


James H. S. Billmyer,
Sr. Engineering Draftsman

Forwarded,


Lieut. Kenneth G. Crosby,
Chief of Party.

GEOGRAPHIC NAMES

Survey No.

T-5830

GEOGRAPHIC NAMES										
Survey No. T-5830										
Name on Survey	<div>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</div>									
	A.	B.	C.	D.	E.	F.	G.	H.	K.	
<u>Shore Acres</u>										1
<u>Lellman</u>										2
<u>Papys Bayou</u>										3
<u>Mermaid Point</u>										4
<u>Tampa Bay</u>										5
<u>St. Petersburg</u>										6
<u>Smacks Bayou</u>										7
<u>Snell Isle</u>										8
<u>Coffeepot Bayou</u>										9
<u>Crescent Lake</u>										10
<u>Mirror Lake</u>										11
<u>North Yacht Basin</u>										12
<u>Central Yacht Basin</u>										13
<u>South Yacht Basin</u>										14
<u>Albert Whitted Airport</u>										15
<u>Bayboro Harbor</u>										16
<u>Salt Creek</u>										17
<u>Booker Creek</u>										18
<u>Municipal Pier</u>										19
<u>U.S. Coast Guard Air Station</u>										20
<u>U.S. Maritime Service Training Station</u>										21
										22
										23
										24
										25
										26
										27

Names underlined in rec approve

by L Heck on 7/23/42

Printed by Clerk of Court
Tenth Circuit Court

M 234

Names underlined in rec approve

by L. Heck on 7/23/42

T-5830

	Remarks.	Decisions
1		278826
2		"
3		278825 U S G B
4		"
5		277826
6		"
7		" U S G B
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		
23		
24		
25		
26		
27		

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

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

Tampa, Florida

January 24, 1934

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

The positions given have been checked after listing.

Lieut. Kenneth G. Crosby,

Chief of Party.

GENERAL LOCALITY	NAME AND DESCRIPTION	POSITION						METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		LATITUDE		LONGITUDE		DATUM							
		°	'	°	'								
							D. M. METERS						
	DOME, Church (Topo. Station NEW AL)	27	45	1668	82	38	561	N. A. 1927	Air Photo.	7/30/41	x	x	587; 1257
	TWIN STACKS, brick, 202 ft. high												
	lighted*	27	45	870.1	82	38	349.1	"	Triang.	1934	x	x	" "
	* One stack has already been charted as a landmark. A similar stack was built close by in November, 1940 (See 1941 Recovery Note for St. Petersburg Florida Power Corp. red brick stack, 1934.)												
	RADIO MAST, east	27	45	1124	82	37	906	N. A. 1927	Sextant.	1/16/42	x		"
	RADIO MAST, west	27	45	1103	82	37	962	"	"	"	x		"
	RADIO MAST, "W.T.S.P., steel, 205												
	feet high, lighted	27	48	436	82	38	493	"	Air Photo	7/30/41	x	x	" "

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." 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.

PAGE NO. 1

TO BE CHARTED

STRIKE OUT ONE

~~TO BE CHARTED~~DEPARTMENT OF COMMERCE Topo. Sheet T-5830
U. S. COAST AND GEODETIC SURVEY St. Petersburg, FloridaLANDMARKS FOR CHARTS
List of Permanent (non-floating) Aids
to Navigation - January 16, 1942.

Air Photographic Party No. 1 Tampa, Fla. February 24 1942

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

The positions given have been checked after listing.

Lieut. Kenneth G. Crosby,

Chief of Party.

GENERAL LOCALITY St. Petersburg Harbor, Fla.		NAME AND DESCRIPTION		POSITION					METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED	
				LATITUDE		LONGITUDE		DATUM							
						D. M. METERS	D. P. METERS								
D. M. METERS	D. M. METERS	D. M. METERS	D. P. METERS	D. M. METERS	D. P. METERS	D. M. METERS	D. P. METERS	D. M. METERS	D. P. METERS	D. M. METERS	D. P. METERS	D. M. METERS	D. P. METERS	D. M. METERS	D. P. METERS
27 45	635	82 36	1200	N. A. 1927	Sextant	1/16/42	X	58711257							
27 45	910	82 36	1607	"	"	"	X	"	"	"	"	"	"	"	"
27 45	964	82 37	1591	"	"	"	X	"	"	"	"	"	"	"	"
27 45	961	82 38	300	"	Air Photo	7/30/41	X	"	"	"	"	"	"	"	"
27 45	1022	82 37	913	"	Sextant	1/16/42	X	"	"	"	"	"	"	"	"
27 45	870	82 37	878	"	"	"	X	"	"	"	"	"	"	"	"
27 46	370	82 37	740	"	Air Photo	"	X	"	"	"	"	"	"	"	"
27 46	772	82 37	506	"	"	"	X	"	"	"	"	"	"	"	"
27 46	695	82 37	506	"	"	"	X	"	"	"	"	"	"	"	"
27 46	555	82 37	1067	"	"	"	X	"	"	"	"	"	"	"	"

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." 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.

DIVISION OF PHOTOGRAMMETRY
REVIEW OF PLANIMETRIC MAP T-5830

Radial Plot:

The plot is described in detail in the descriptive report. It was adequately controlled and was accepted without checking during the review.

Field Inspection and Detailing:

Adequate, with the exception that it was necessary to add a number of buildings during the review. These were added to the manuscript in red.

Previous Topographic Surveys:

T-5830 is complete and adequate to supersede those sections of the following older surveys which it covers:

T-1316a	1:20,000	1873
T-1408a	1:20,000	1873
T-4199	1:20,000	1926

Comparison with Nautical Charts:

T-5830 was applied to Charts 586, 587, and 1257 prior to this review. No changes were made on the manuscript during the review which affect the charts.

Reviewed by M. B. Parker

Under the direction of D. H. Benson, August 1943

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

NOTE:

T-5830 was compiled in 1942 and reviewed in 1943, but processing in the Washington Office was not completed until July 1946 because of war map work of the Bureau. Meanwhile, the Coast and Geodetic Survey produced topographic quadrangles (manuscript scale 1:20,000) for the War Department of this same area. Planimetric details from T-5830 were used as a base in preparing quadrangles T-8386 and T-8387, which were completed in 1944. These quadrangles are more recent and more complete as regards map details than T-5830, but are at a smaller scale.

APPROVED BY:

B. G. Jones 7/46
B. G. Jones, Technical Asst.
Div. of Photogrammetry

K.T. Adams
Chief, Div. of Photogrammetry

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

Raymond P. Egan
Chief, Div. of Coastal Surveys