

5827

Form 504 Rev. April 1935	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Topographic <del>Hydrographic</del>	Sheet No. T-5827
State <u>Florida</u>	
LOCALITY	
<u>West Coast,</u>	
<u>North of St. Petersburg</u>	
<u>Pinellas Park AND VICINITY</u>	
Photo. dates	
<u>Dec 7, 1939</u>	
<u>Dec 12, 1939</u>	
<u>1939</u>	
CHIEF OF PARTY	
<u>Lieut. Kenneth G. Crosby.</u>	

5827

Applied to chart 587 before review October 8, 1942 S.A.M.  
" " " 1257 " " October 13, 1942 S.A.M.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

CS-292-E

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-5827

~~Field No.~~

REGISTER NO.

State Florida

General Locality West Coast

Locality North of St. Petersburg Pinellas Park and Vicinity

Scale 1:10,000 Date of <sup>photos.</sup> ~~survey~~ December 7-12, 1939

~~Vessel~~ Party: Air Photographic Party No. 1

Chief of party Lieut. Kenneth G. Crosby

Field Inspected by: J. D. McGuire and H. A. Duffy  
~~Surveyed by~~

Inked by John E. Doyle, Photogrammetric Aid.

Heights in feet above \_\_\_\_\_ to ground to tops of trees

Contour, Approximate contour, Form line interval \_\_\_\_\_ feet

Instructions dated April 3, 1940

Remarks: \_\_\_\_\_

GPO 260853

Complete survey received: 6 Dec. 1941

Reviewed: 4 Sept. 1943

Redrafted: Oct. 1944

Published: June, 1945

Registered: 21 May, 1948

PHOTOGRAPHS

Number	Date	Time	Stage of Tide
3971	December 7, 1939	11:58	
3972	" " "	11:59	
3973	" " "	12:00	
4173	December 12, 1939	10:03	
4174	" " "	10:04	This sheet has no shoreline
4175	" " "	10:05	
4176	" " "	10:06	
4185	" " "	10:15	
4186	" " "	10:16	
4187	" " "	10:17	
4188	" " "	10:18	

Tide from predicted tables for: None (This sheet is inshore)

Camera: U.S. Coast and Geodetic Survey Nine-Lens (focal length 8 1/2 inches)  
Negatives on file at Washington Office.

SCALE

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

STATISTICS

Area (land).....	24.95	Square statute miles
Shoreline (more than 200 m. from opposite shore).....	None	Statute miles
Shoreline (creeks).....	None	Statute miles
Roads, streets, trails, and railroads.....	55.14	Statute miles

REFERENCE STATION

Station: PINELLAS PARK, Silver Municipal Water Tank, 1934  
Datum: N. A. 1927  
Latitude: 27° 50' 21.973(676.4M)  
Longitude: 82° 42' 46.251(1265.6M)

Florida System of Plane Coordinates (West Zone)

x coordinate: 269,623.51 feet  
y coordinate: 1,274,945.94

## SUPPLEMENTARY SURVEYS

	Name	Date	Hours
Control Surveys.....	KWS, MMS	May & July	5
Planetable Surveys.....			
Total			5

## FIELD INSPECTION

Preparation of Photographs.....	KWS	Jan & Feb.	8
Field Work.....	HAD JCM	April	30
Inking Notes.....			
Coast Pilot Notes.....			
Geographic Name Report.....	HAD LJD JED	June and July	5 1/4
Landmarks for Charts.....			
Description Cards.....			
Recovery Notes.....	HAD	April	7
Total			50 1/4

## MAIN RADIAL PLOT

Scale Plot.....	KGC LJD	June	3
Projection on Base Sheet.....	Washington Office		
Projection on Survey Sheet.....			
Control Plotted.....	KGC	July	2
Control Checked.....	JED	July	3
Control Trans. to Base Sheet....	KGC RHY	July	1 1/4
Transfer Checked.....	RHY	July	1/2
Control Picked on Photographs..	LJD	May	1 1/2
Control Checked on Photographs..	KWS	June	4
Hydro. & Topo. Stations Picked..			
Radial Points Picked.....	KWS MMS LJD	June	16
Adjacent Centers Picked.....	KWS JED	Feb. & March	20
Templates.....	RD JED	July	12
Radial Plot.....	KGC RD RHY	July	9 1/2
Radial Points Transferred.....	WHS JED	July & Aug.	4
Transfer Checked./.....	RD JED	July & Aug.	4
R & T Stations Scaled & Checked:			
Additional Radial Points.....			
Total			80 3/4

## DETAILING

Rough Draft.....	JED	Sept. & Nov.	160
Smooth Draft.....			
Total			160

## COMPILATION

Home Overlay.....	JED	October	4
Descriptive Report.....	KGC JED	Oct. & Nov.	7
Field Review.....	KGC JHSB	November	37
Total			48

Total Time Spent on Sheet..... 344 Hours.

DESCRIPTIVE REPORT  
TO ACCOMPANY  
SHEET NO. T---5827

GENERAL

This sheet has been compiled 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 West Coast, North of the city of St. Petersburg, and Northeast of Pinellas Park. There is no shoreline on this sheet.

The whole area is broken up with numerous small ponds, the majority of which are intermittent ponds. Many of the intermittent ponds shown on this sheet are ponds which have been drained. These ponds are filled to the berm line during the rainy season and gradually drain off through the various ditch systems. The grassy ponds have water in them throughout the year but they too have water level fluctuations with a readily recoverable shore or berm line surrounding it.

The predominating vegetation is scattered pine, palmetto and grass.

All roads shown by centerline only, should be 0.6 m.m. wide.

CONTROL

There are seven control stations within the tracing limits of this survey sheet as follows:

<u>Name of Station</u>	<u>Year</u>	<u>Established by</u>
PINELLAS PARK, SILVER MUNI. E.T.	1934	G. L. Anderson
✓ Y-3	1934	Fla. Mapping Proj.
✓ Y-4	1934	Fla. Mapping Proj.
✓ Y-5	1934	Fla. Mapping Proj.
✓ Y-109	1939	Fla. Mapping Proj.
✓ Y-110	1939	Fla. Mapping Proj.
✓ Y-111	1939	Fla. Mapping Proj.

No errors were found in the location of the control stations, nor in the plotting of these stations on photographs.

MAIN RADIAL PLOT.

A continuous radial 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~~<sup>were</sup> in the vicinity of St. Petersburg. All traverse stations of the "YU" 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.

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 points located by the main radial plot on this sheet were determined by the common intersection of three or more radial lines. It was not necessary to place any radial lines on the survey sheet for further study to obtain a common intersection. In the several locations of points where there was a triangle of error, the triangle was not larger than approximately 0.3 m.m. on a side. The actual point picked was the center of gravity of the triangle. It is believed that the locations as determined by this radial plot are within 0.2 m.m. of their true location.

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 located 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.

A further check was made by comparing all photographs for each particular sheet against the location established by the radial plot. It has been found that much time can be saved by making this additional check at the time of completing the transfer rather than waiting until the sheet is ready for detailing. This eliminates a particular fruitful source of discrepancy, namely the picking of a wrong intersection when there is a multiplicity of "cuts", not all of which meet at a common intersection.

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 & Traverse Stations....2.5 mm blue circle  
Marked Hydro. & 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. & 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 accurate interpretation was obtained with no unusual conditions being found except in the case of the numerous grassy and intermittent ponds. This is discussed in the paragraph entitled "Detailing".

## FIELD INSPECTION

Field inspection was made by J. D. McGuire, and H. A. Duffy, Photogrammetric Aids, during the months of April and May, 1941. Notes were sufficient for accurate interpretation of vegetation.

## DETAILING

This sheet was detailed in accordance with the current instructions of the project.

Photographs 3971, 3972, 3973, were in good scale and 2/3 of the sheet was detailed from these. Photographs 4186, and 4187 were not in good scale but were used for checking. Photographs 4174, 4175 and 4176 fell outside of the tracing limits of the sheet but were used for detailing; the scale was fair.

Before detailing, the surface of this sheet was rubbed down with magnesium carbonate and then washed off. No re-inking was required.

The stereoscope has been used freely for pinking the corners of buildings, interpretation of detail and determining the limits of vegetation.

Throughout the area covered by this sheet there are numerous ponds. They are interconnected in many cases by drainage ditches and are consequently transformed into "intermittent ponds", being filled with water during the rainy season and gradually drain off during the dry season. Many of the ponds are shown as "grassy ponds", since these have water in them throughout the year and although fairly stable there is some fluctuation in the water level. When detailing these features some difficulty was experienced in properly identifying the intermittent ponds from the more stable grassy ponds. These features have been carefully verified and

it is believed that a correct interpretation has been made.

The legend used by the field inspection party and by the draftsman is made a part of this report.

#### JUNCTIONS

This sheet joins T-5829 and T-5830 on the south; T-5825 on the north; T-5824 and T-5826 on the west and T-5828 on the east. The junctions are in agreement.

#### COMPARISONS WITH OTHER SURVEYS

Reference is made to a letter from the Washington Office dated May 10, 1941 (28-PFA-1990), advising that this paragraph may be dispensed with for this area. Surveys of other agencies and the charts of this area are of such scales that accurate comparisons could not be made.

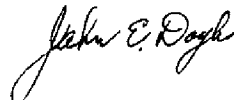
#### LANDMARKS

There are no landmarks recommended for charting in this area.

#### GEOGRAPHIC NAMES

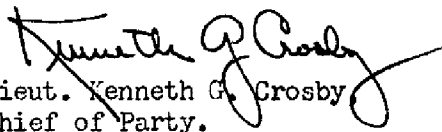
The investigation of geographic names on this sheet is the subject of a special report entitled "Investigation of Geographic Names, Anclote Keys to Tampa Bay", submitted to the Washington Office by Lieut. (j.g.) James D. Thurmond.

Respectfully submitted,



John E. Doyle,  
Photogrammetric Aid.

Forwarded,



Lieut. Kenneth G. Crosby  
Chief of Party.

REVIEW REPORT  
Planimetric Map Manuscript T-5827

RADIAL PLOT:

The radial plot could not be checked by use of the office photographs because they had already been destroyed.

DETAIL:

Aside from the need to add a few ditches and second class roads, which were plainly discernible on the photographs, the delineation of the planimetric detail on this map manuscript was well done.

COMPARISON WITH PREVIOUS SURVEYS:

(No contours)

Only T-1409 1/10000 1875 falls within the area of of T-5827, and it is superseded by the present survey.

COMPARISON WITH PRESENT QUADRANGLES:

T-8380	Safety Harbor,	USE	1943	(War Mapping)
T-8387	St. Petersburg	"	"	"

These quadrangles were compiled on bases prepared from T-5827, T-5828, T-5829, T-5830. Roads on this planimetric map were re-classified in accordance with war mapping specifications.

COMPARISON WITH NAUTICAL CHARTS: 1257 1/80000, 1941

T-5827 is an inland map, whose area is not included in the chart.

Reviewed by

Under the direction of  
D. Benson

M. V. Parker 4 Sept. 1943.

APPROVED BY:

B. J. Jones 7/16/48  
Technical Assistant to the  
Chief, Div. of Photogrammetry

K. T. Adams  
Chief, Div. of Photogrammetry

[Signature]  
Chief, Nautical Charts Branch  
Division of Charts

[Signature]  
Chief, Div. of Coastal Surveys

This review report is compiled from notes made by the reviewer upon a check list. (LTS, May, 1948)

# GEOGRAPHIC NAMES

Survey No. T-5827

GEOGRAPHIC NAMES		Survey No. T-5827											
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				
✓ <u>Pinellas Park</u> ✓											1		
✓ <u>Cross Bayou Canal</u> ✓											2		
✓ <u>Sawgrass Lake</u> ✓											3		
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L Heck 7/24/42

M 234

L Heck 7/24/42

T-5827

Remarks

Decisions

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**LEGEND USED FOR FIELD INSPECTION AND MAPPING**  
**PROJECT 242 E - 1941**

**TREES**

P - Pine  
 Cy - Cypress  
 Palo - Palmetto  
 Palm - Palm  
 D T - Deciduous trees (broad leaf)  
 Cit - Citrus (orchard)  
 Mix - Pine, cypress & Dec. trees  
       (Density)  
 Sct. - Scattered  
 t.w. - Thinly wooded  
 h.w. - Heavily wooded  
 Scr - Scrub trees; brush

**VEGETATION**

C - Cultivation  
 Gr - Grass  
 TGr - Tall Tropical Grass  
 M - Marsh (dashed blue line on  
       inshore limits)  
 M W - Marsh grass in water (dashed blue  
       line on offshore limits)  
 Sw - Swamp  
 Mg - Mangrove  
 Hdg - Hedge

**STREAMS**

Ca - Canal (width)  
 Cr - Creek  
 D - Ditch (width)  
 I S - Intermittent Stream  
 PDU - Probable drainage unsurveyed  
 Brg - Bridge or symbol  
 Cv - Culvert  
 Lev - Levee

F.G.S. - Florida Geodetic Survey  
 U.S.E. - U.S. Engineers  
 USBS - U.S. Biological Survey

**ROADS & RAILROADS**

Rd 1 - 1st class road (paved)  
 Rd 2 - 2nd class road  
 Tr - Trail  
 R.R. - Rail Road  
 O P - Overpass (state the kind)  
 U P - Underpass (state the kind)  
 X - Abandoned trail, road, etc.  
 RR ab. - R.R. abandoned (grade only)

**PONDS**

P - Pond  
 Cy P - Cypress Pond  
 I P - Intermittent Pond

**SHORE LINE**

H.W.L. - mean high water line (solid  
       red line - first land)  
 L.W.L. - low water line (dashed red line)  
 L.L. - light line (solid blue line for  
       mean high water line on marsh)  
 Dk - Dock  
 Pr - Pier  
 Se W - Seawall  
 Bulw. ad. - Bulwarked  
 Conc. - Concrete  
 Wo - Wooden  
 Jet - Jetty  
 dol. - Dolomite  
 pile - pile (give type)  
 S - Sand  
 Mud - Mud  
 Rk - Rock or Rocky  
 Stv - Stony  
 W - water  
 Blf - Bluff (height)

**BUILDINGS**

H - House, barn or building  
 Ch - Church (give name)  
 Ct H - Court House (give name)  
 Sct H - Court House  
 P.O. - Post Office (give name)  
 R.R. Sta - Railroad station (give name)  
 hos - Hospital (give name)  
 Sch - School (give name)

**UTILITIES**

F - fence  
 FB - Fire Break (maintained)  
 FBK - Fire Break (abandoned)  
 Cem. - Cemetery  
 Park - Park (give name)  
 P.T. - Fire Tower  
 T.T. - Transmission tower (tall steel)  
 P.L. - Power Line  
 Shoal - Approx. 11 mile by long dashed  
       line for use by hydrographer

## REVIEW OF AIR PHOTO COMPILATION NO. T- 5827

Chief of Party: Kenneth G. Crosby      Compiled by: John E. Doyle

Project: HcTc - 242      Instructions dated: April 3, 1940

1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b, c, d, e, g and i; 26; and 54)

Yes.

2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (par. 26; and 66 g, n)

This is an inshore sheet.

3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 66; and 66 d, e)

None Used.

4. Blue prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)

None transmitted.

5. Difference between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.

Yes.

6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 65 c, h, i)

Yes.

7. High water line of marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

No shoreline on this sheet.

8. The representation of low water lines, reefs, coral reef, and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)

No shoreline on this sheet.

9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30 and 57)

Yes.

10. A list of landmarks was furnished on Form 557 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)

No landmarks.

11. All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c)

No bridges of navigational importance.

12. Geographic names are shown on the overlay tracing. The accepted local usage on new names has been determined and they are listed in the report, together with a general statement as to the source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U.S. C. & G.S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)

No overlay - See paragraph "Geographic Names".

13. The geographic datum of the compilation is N. A. 1927 and the reference station is correctly noted.

Yes.

14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)

Yes.

15. The drafting is satisfactory and particular attention has been given the following:

1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report. Yes, legend also used.
2. The degrees and minutes of latitude and longitude are correctly marked. Yes.

3. All station points are exactly marked by fine black dots. Yes.
4. Closely spaced lines are drawn sharp and clear for printing. Yes.
5. Topographic symbols for similar features are of uniform weight. Yes.
6. All drawing has been retouched where partially rubbed off. Yes.
7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground. Yes.

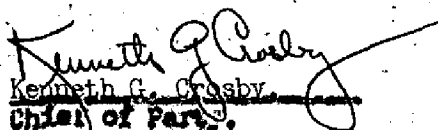
(Par. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

16. No additional surveying is recommended at this time.

No additional Topographic Survey required.

17. Remarks:

18. Examined and approved:

  
Kenneth G. Crosby  
Chief of Party.

19. Remarks after review in office:

Reviewed in office by:

Examined and approved:

Chief of Section of Field Records

Chief, Section of Field Work

  
Chief, Division of Charts

Chief, Division of Hydrography

## NAUTICAL CHARTS BRANCH

SURVEY NO. T-5827

### 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.