

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

Form 504  
Rev. April 1935

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic  
~~Hydrographic~~ Sheet No. T-5821

State FLORIDA.

LOCALITY

FLORIDA WEST COAST,  
SAFETY HARBOR and  
AREAS NORTH and EAST.

Date of Photos December, 1939

1941

CHIEF OF PARTY

Lieut. Kenneth G. Crosby

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

DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY

CS-244E

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-5821

~~Field No.~~

REGISTER NO.

State Florida

General locality Florida West Coast.

Locality Safety Harbor and Areas North and East.

Scale 1:10,000 Date of survey December 7-12, 1939

Vessel PARTY Air Photographic Party No. 1

Chief of party Lieut. Kenneth G. Crosby.

~~Surveyed by~~ FIELD INSPECTED BY James C. McGuire (Photo. Aid)

Inked by Rudolph Dossett

Heights in feet above.....to ground to tops of trees

Contour, Approximate contour, Form line interval.....feet

Instructions dated April 3, 1940

Remarks:.....

Completed survey received: 3 Oct. 1941

Reviewed: 20 Feb. 1942

Redrafted: 13 May. 1945

Registered: 20 May, 1948

Published: June, 1945

## PHOTOGRAPHS

Number	Date	Time	Stage of Tide
3978	12 - 7 - 39	12:03	1.1
3979	" " "	12:04	1.1
3980	" " "	12:05	1.1
4178	12 - 12 - 39	10:08	0.9
4179	" " "	10:09	0.9
4180	" " "	10:10	0.9
4181	" " "	10:11	0.9
4209	" " "	10:45	0.9
4210	" " "	10:46	0.9

Tide from predicted tables for: Bayview - Old Tampa Bay, Florida.  
Reference Station: Tampa, Florida.

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

## SCALE

Mean scale of Photographs..... 1 : 10,000  $\div$  0.9928  
Scale of Survey Sheet..... 1 : 10,000

See Review, paragraph  
Radial Plot and Detailing

## STATISTICS

Area (land).....	19.7	Square statute miles
Shoreline (more than 200 m. from opposite shore).....	12.3	Statute miles
Shoreline (creeks).....	8.7	Statute miles
Roads, streets, trails, and railroads.....	47.4	Statute miles

## REFERENCE STATION

Station: DUNEDIN, 1934

Latitude:  $28^{\circ} 02' 54.630''$  (1681.6)

Datum: N. A. Datum, 1927 (Adjusted) Longitude:  $82^{\circ} 43' 26.210''$  (715.9)

Florida State Coordinates  
Zone II - (West)

$X = 266,486.29$  Ft.  
 $Y = 1,350,976.50$  Ft.

Position checked - F.H. McBeth

Date of Survey - See page 3

**SUPPLEMENTARY SURVEYS**

	Name	Date	Hours
Control Surveys.....	KNS-WHS-WOG	April	9
Planetable Surveys.....			
Total			9

**FIELD INSPECTION**

Preparation of Photographs.....	KNS	Jan. and Feb.	12
Field Work.....	MMS-JCM-JTD	Feb. and Mar.	96
Taking Notes.....	JCM	March	6
Coast Pilot Notes.....			
Geographic Name Report.....	JCM-LJD	Apr. and June	4
Landmarks for Charts.....			
Description Cards.....	JCM-MMS	Feb. and Mar.	39
Recovery Notes.....			
Total			157

**MAIN RADIAL PLOT**

Scale Plot.....	KGC	April	1
Projection on Base Sheet.....			
Projection on Survey Sheet.....	Washington Office		
Control Plotted.....	KGC	May	3
Control Checked.....	WHS-LJD	May	3
Control Trans. to Base Sheet.....	KGC	May	3
Transfer Checked.....	WHS	May	3
Control Plotted on Photographs.....	MMS	March	9
Control Checked on Photographs.....	WHS-JHSB	April	7
Hydro. & Twp. Stations Plotted.....	LJD-WHS	April	20 1/2
Radial Points Plotted.....	KNS	April	13
Adjacent Centers Plotted.....	JTD	March	21
Templates.....	LJD	May	16
Radial Plot.....	X	May	9
Radial Points Transferred.....	JTD-WHS-LJD	May	4 1/2
Transfer Checked.....	LJD	May	4 1/2
H & T Stations Scaled & Checked....	RD-RRT	Sept. and July	6 1/2
Additional Radial Points.....			
Total			119

**SKETCHING**

Rough Draft.....	RD	June	87
Smooth Draft.....			
Total			87

**COMPELATION**

Base Overlay.....	RD	July	4
Descriptive Report.....	RD-KGC	July and Sept.	6
Field Review.....	KGC	Sept.	23
Total			33

Total Time Spent on Sheet..... 405 Hours

X = Where Several of Office Personnel took part.

1.

DESCRIPTIVE REPORT  
S TO ACCOMPANY  
SHEET NO. T---5821

GENERAL

This sheet was 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, in the vicinity of Safety Harbor. It includes all of Safety Harbor and inshore areas to the north and east. The terrain along the shoreline is generally high ground, the vegetation consisting of scattered pine and grass, with occasional mangrove patches. The inshore area west and northwest of Safety Harbor consists principally of scattered pine, palmetto and grass with scattered small areas of scrub oak, pine and brush. There are numerous citrus orchards in the extreme northwest corner. The inshore terrain north of Safety Harbor consists of pine, grass and palmetto with numerous areas of swamp and cypress ponds. There is very little cultivated ground within the area covered by this sheet. The few cultivated areas are found west of Safety Harbor, there being none to the north.

Approximate mean low water is shown by dotted lines.

The limits of shoal areas are approximate and are shown by broken lines as an aid for use by the hydrographer.

All roads should be shown 0.6 m.m. wide as none of the roads in the area are over 12 meters wide. The overall street widths in the town of Oldsmar are considerably wider

Fire breaks are not shown on this map drawing.

For a general report on the field inspection of this area, see special report submitted by Lieut. (j.g.) J. D. Thurmond, entitled, "Field Inspection, Anclote Keys to Tampa Bay".

CONTROL

Control on this map drawing consists of the following triangulation and traverse stations.

<u>Name of Station</u>	<u>Year</u>	<u>Established by</u>
DUNEDIN	1934	G. L. Anderson
BOOTH	1926	R. L. Schoppe
D - 21 F.G.S. 1934	1934	Fla. Mapping Proj.
D - 22	1934	Fla. Mapping Proj.
Y - 25	1934	Fla. Mapping Proj.
Y - 26	1934	Fla. Mapping Proj.
Y - 27	1934	Fla. Mapping Proj.
Y - 28	1934	Fla. Mapping Proj.

*Described Topo. (from 524)*  
 LEE Y-25 Y-26  
 BOO Y-27  
 HAG DUNEDIN A2  
 DON  
 RAG

"Safety Harbor Municipal Silver Tank", triangulation station, established in 1934 by G. L. Anderson falls just outside the southern limits of the sheet.

The position of the azimuth mark at triangulation station "DUNEDIN" was compared with the geodetic azimuth given in the list of geographic positions and was found to be in good agreement.

#### INTERPRETATION OF PHOTOGRAPHS

The photographs were clear and no difficulty was experienced in their interpretations.

#### MAIN RADIAL PLOT

A continuous radial plot was run on May 10 - 12, 1941 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 entire area covered by Sheets Nos. T-5818 to T-5825 inclusive, except Sheet No. T-5822. All photographs, furnished by the Washington Office, for the area covered by these sheets were used.

The plot comprised of 71 templates. These were made in accordance with "Notes on Radial Plotting of Nine-Lens Air Photographs" dated April 9, 1940, except that mask lines were not transferred to the survey sheet and many more points were located by the radial plot than recommended.

Practically all templates were rigidly fixed by control furnished by previous established triangulation or traverse. A few templates had no triangulation or traverse control but they were rigidly fixed by points determined by radial intersections of previously laid templates. Agreement along the flight line was excellent, and the intersection of radial lines to photograph centers on adjacent flight lines was very good.

The usual practice of laying a plot was followed. This consisted of plotting the control on the survey sheets and transferring it to the base grids by matching individual grid squares. There was only a slight adjustment necessary when making the transfer. The base grids were securely taped to the plotting table and allowed to remain for 48 hours before laying the plot. The base grids were readjusted and retaped prior to laying the first template.

Due to the extensive amount of control, no difficulty was experienced in laying the plot. After laying all templates it was believed to be unnecessary to relay any part of the plot since practically all of the radial intersections formed a common point.

All points located by the radial plot were transferred and checked on the survey sheet by matching individual grid squares. In cases where there were but two radial lines to a point, the radial lines were transferred to the survey sheet for a further check by the draftsman when detailing the sheet. There were very few intersections which had a triangle of error and in such cases due regard was given to the strength of the intersection as well as the probable error in the radial line itself. In several instances where the triangle of error was too large to accurately pick the point, all of the radial lines were transferred to the survey sheet for further study by the draftsman to obtain a common point of intersection.

A majority of the radial intersections gave a common intersection for four to seven radial lines. With such good agreement no difficulty was experienced in accurately picking the located point. It is believed that all radial points are within 0.20 m.m. of their true location and these points are indicated on the survey sheet by 2.5 millimeter circles. In cases where the position has been determined by only two radial lines, tick marks have been placed on the circle to indicate the number and direction of the radial lines. No large or unusual adjustment was necessary in any part of the plot.

Various colored inks were used on the photographs and survey sheet to designate triangulation stations, traverse stations, topographic stations, etc. The following key is furnished for reference:

Photographs

Triangulation & Traverse Stations.....	2.5 mm blue circle
Hydrographic & Topographic Stations.....	2.5 mm green circle
Radial points in Main Plot.....	2.5 mm red circle
Radial points (Additional).....	3.5 mm red circle
Photograph Centers.....	Double White Circles

Survey Sheet

Triangulation & Traverse Stations.....	3.5 mm high black triangle
Hydrographic & Topographic Stations.....	2.5 mm black circle
Radial Points on Main Plot.....	2.5 mm blue circle on back
Radial Points (Additional).....	3.5 mm blue circle on back
Points not strongly determined.....	2.5 mm circle with tick
Radial Points (Blue)	marks indicating
H. & T Stations (Black)	number and direction
	of cuts.
Photograph Centers.....	Double blue circle on back
	of sheet.

FIELD INSPECTION AND DATE OF SURVEY

The field inspection was made by James C. McGuire, Photogrammetric Aid, under the supervision of Lieut. J. D. Thurmand, during the months of March and April, 1941.



## Bridges

There is only one bridge of use to navigation.  
The data for the highway bridge across  
Safety Harbor agrees with the U.S.E. List  
of Bridges for 1937.

Field notes were plentiful along the roads and shoreline and by comparing these areas with those where the field notes were lacking, it is believed that an accurate interpretation of the vegetation has been obtained. Detail is as of date of Photos. - Dec. 7, 1939.

#### DETAILING

The detailing of this sheet has been done in accordance with the current instructions for this sheet and project.

Before detailing, the surface of this sheet was rubbed with magnesium carbonate and washed off. No additional cleaning was necessary and no re-inking has been required.

The scale of Photographs 3928, 3979 and 3980 was especially good. The scale of the other photographs, while not as good as the above mentioned, was reasonably good.

Symbols were used whenever the vegetation was not of consistent density in order that a truer interpretation could be obtained than could otherwise be shown by legend.

The stereoscope was used in picking the detail in these parts of the sheet not covered by the legend.

All buildings visible under the stereoscope have been shown.

#### JUNCTIONS

This sheet forms a junction on the north with Sheet No. T-5819, on the west with T-5820 and T-5823, on the south with T-5825 and on the east with T-5822.

#### COMPARISON WITH OTHER SURVEYS

Reference is made to a letter from the main office, dated May 10, 1941 (28-PFA, 1990) advising that this paragraph may be dispensed with for this area.

#### LAND MARKS

There are no land marks in the limits of this sheet.

#### GEOGRAPHIC NAMES

The geographic names for this area are the subject of a special report entitled "Investigation of Geographic Names, Anclote Keys to Tampa Bay", submitted by Lieut. (j.g.) J. D. Thurmond to the Washington Office.

Respectfully submitted,

Forwarded,

Rudolph Dossett, Photogrammetric Aid.

Lieut. Kenneth G. Crosby  
Chief of Party.

## REVIEW OF AIR PHOTO COMPILATION NO. T- 5821

Chief of Party: Kenneth G. Crosby      Compiled by: R. Dossett

Project: EoP - 242

Instructions dated: April 3,

19 41

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 64)

Yes

2. Change in position, or non-existence of charts, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (par. 25; and 66 3, n)

Yes

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)

Print of Layout-City of Oldsmar

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 or marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

Yes. The light line around marsh and mangrove areas defines the outer limits of vegetation visible at high water. The mean high water line is shown only on fast land and is represented by a heavy solid line.

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

Yes. Shoal areas are outlined approximately as an aid to the hydrographer.

9. Recoverable objects have been located and described on Form 584 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 37)

Yes

10. A list of landmarks was furnished on Form 587 and instructions in the Director's letter of July 16, 1934, landmarks for Charts, complied with. (Par. 16d, e; and 40)

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)

Bridges of importance to navigation are accompanied by notes. All other bridges are small fixed spans across waterways.

12. Geographic names are shown on the overlay tracing. The accepted local usage of 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. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)

No overlay. See Special Report mentioned in 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. 64j)

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. Legends 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. Legend also used.
6. All drawing has been retouched where partially rubbed off. Not necessary to retouch
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)

15. No additional surveying is recommended at this time.

No additional topographic survey required

17. Remarks:

18. Examined and approved:

*Kenneth G. Crosby*  
Kenneth G. Crosby  
Chief of Party

19. Remarks after review in office:

Reviewed in office by:

Examined and approved:

Chief, Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

Chief, Division of Hydrography

## Remarks.

## Decisions

1		280826
2		"
3		"
4		"
5	Recent Board decision approved this form of name	U.S.G.B.
6		"
7		280827
8		279825
9		280827
10		"
11		"
12		"
13		"
14		280826
15		
16		
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24		
25		
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27		

# GEOGRAPHIC NAMES

Survey No.

T-5821

Name on Survey

	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	
A.	B.	C.	D.	E.	F.	G.	H.	K.	
Safety Harbor ✓									1
P <sup>O</sup> saum Branch ✓									2
Moccasin Branch ✓									3
Booth Point ✓									4
Phillippi Point ✓									5
Bishop Creek ✓									6
Lake Bowden ✓									7
Old Tampa Bay									8
St. George ✓									9
St. George Lake ✓									10
South Creek ✓									11
Cow Branch ✓									12
Lake Branch ✓									13
Oldsmar ✓									14
									15
									16
									17
									18
									19
									20
									21
									22
									23
									24
									25
									26
									27

not shown - falls below this sheet

by L. Heck on 11/15/41

DIVISION OF PHOTOGRAMMETRY  
Review Report of  
Planimetric Map Manuscript T-5821

Subject headings not used have been adequately covered in other parts of the descriptive report.

Detailing

Within the town of Oldsmar only the usable width of the streets has been shown. The actual width of the right of way of the streets includes park areas which would make the streets wider.

Field Inspection

The field inspection is complete with the exception of off-shore details. These details have been left for completion by the hydrographic party. Shoal areas undoubtedly extend out farther than shown on this compilation but only those areas <sup>to</sup> actually inspected and sufficiently controlled by radial points have been shown.

Comparison with Previous Topographic Surveys.

T-1409B	1:20,000	1875
T-4184	1:20,000	1926

There are three offshore rocks awash on T-4184 not visible on the photographs and not shown on T-5821. They lie along the east shore of Safety Harbor.

Common features on these surveys are superseded by the map manuscript in their common areas.

Comparison with Nautical Charts

Chart No. 1257 1:80,000 1941

Application to Nautical Charts

The map manuscript has been applied to charts 587 and 1257 prior to review.

Reviewed by:

Under the direction of:

F. H. McBeth 1942

*K.H. Jan. 11/2/48*  
D. H. Benson, Chief,  
Review Section



Approved by:

*M. Jones 11/48*  
Technical Asst. to Chief,  
Division of Photogrammetry

*for E. Jones 12 Nov 48*  
K. T. Adams, Chief  
Division of Photogrammetry

*K. Stirling*  
Chief, Nautical Chart Branch  
Division of Charts

*C. R. Green*  
Chief, Division of Coastal  
Surveys

## NAUTICAL CHARTS BRANCH

SURVEY NO. *T-5821*

## 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.