5818

Diagd. on Diag. Cir. No. 1257-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Map

~~Field~~ No. T-5818 Office No.

LOCALITY

State Florida

General locality Florida West Coast

Locality Tarpon Springs and Vicinity

Photos. taken Dec. 1939. Supplemented by other surveys to August 1941

194 1

CHIEF OF PARTY

Lieut. Kenneth G. Crosby

LIBRARY & ARCHIVES

DATE Aug 26 - 1946

B-1870-1 (1)

5818

Applied to Chart 1257 before review	October 12, 1942	
" " " 1258 after review	Sept. 21, 1943	W.A. Bruder

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T---5818

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 immediate vicinity of Anclote Keys and Tarpon Springs.

The terrain along the shoreline is mostly pine, brush and grass. However, at the immediate waters edge there is usually marsh and mangrove, forming a fringe the width of which varies from a few meters to as much as 75 to 100 meters. The inland terrain is rollingland and is covered with vegetation consisting generally of scrub oak, pine, brush and grass. The swamp areas are small and are usually confined to the shore of the numerous ponds and lakes. The islands comprising the Anclote Keys are covered with vegetation consisting of pine, deciduous trees and palms on the western half and mangrove on the eastern part. The cultivated areas on this sheet are scattered and consist mostly of citrus groves.

Approximate M.L.W. is shown by dotted lines. Approximate shoal limits are shown by short dash lines and are shown for the use of the hydrographer.

The small bars shown are oyster bars, except where labeled otherwise, and consist of sand and shell.

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

CONTROL

The following triangulation stations are found on the sheet:

Name of Station	Year	Established by
N. ANCLOTE	1910	G.H. R.
N. AXIS TA 36 (USE)	1940	U.S. Engineers
ANCLOTE KEYS LIGHTHOUSE	1910	
BAILEYS BLUFF	1910	G.H. R.
PALMETTO KEY	1910	G.H. R.
TARPON	1934	G.L. Anderson
TARPON SPRINGS MUNI.		G.L. Anderson
TANK (PON, 1925)	1934	R.P. Eyman
TARPON SPRINGS MUNI.	1934	G.L. Anderson
TANK (TAR, 1925)		R.P. Eyman
AU 1	1934	Fla. Mapping Project
Y 136	1939	Fla. Mapping Project
Y 137	1939	Fla. Mapping Project
Y 138	1939	Fla. Mapping Project
Y 139	1939	Fla. Mapping Project
Y 140	1939	Fla. Mapping Project
Y 141	1939	Fla. Mapping Project

Name of Station	Year	Established by
Y 145	1939	Fla. Mapping Project
Y 146	1939	Fla. Mapping Project
Y 147	1939	Fla. Mapping Project
AT	1926	R.P. Eyman

The position of the azimuth mark at triangulation station TARPON, 1934, was determined by the main radial plot. The position was checked by plotting the published geodetic azimuth with a steel protractor reading to minutes. It was found in good agreement. No other stations have azimuth marks.

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

Triangulation station TARPON SPRINGS MUNI. TANK, 1934, (LAKE BUTLER), and traverse station Y-149, 1939, fall on this sheet but are outside the detailing limits.

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.

There were three radial points at the north end of Dutchman's Island which were not picked when the main radial plot was run. The intersection of the radial lines at these points was too slim for accurate picking at the time the radial plot was run. Two of these points had three cuts and the other one had two. The radial cuts were transferred from the main plot and inked on the back of the survey sheet. The best intersection was obtained by the draftsman and the point then picked and shown by a 2.5 m.m. circle on the back of the survey sheet in blue. The accuracy of these points is believed to compare favorably with others in the vicinity.

This detail changed in review. R. Hills in error.

Only two radial "cuts" could be obtained for hydrographic station "Bird Rack" which is northeast of triangulation station NORTH ANCLOTE 2, 1910 (Lat. 28° 12' 1190. meters; Long. 82° 50' 764.4 meters), at the northern limits of this sheet. These radial lines were transferred to the survey sheet and the point of intersection was picked by the draftsman. It is believed that the location of the point is accurate. This is a water area and the point was not used for detailing.

An additional radial point was added by the draftsman at Lat. 28° 12.1', Long. 82° 44.9' to verify the accuracy of the radial point at Lat. 28° 12.3', Long. 82° 45', which was picked at the center of gravity of a small triangle caused by the intersection of three cuts. Small ticks were left showing the direction of the cuts and the triangle of error.

Various colored inks were used on the photographs and survey sheet to designate triangulation stations, traverse stations, topographic and hydrographic 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
Non-Floating Aids to Navigation not
included in Main Plot.....3.5 mm green circle
Photograph Centers.....Double White circle

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 of sheet
Radial Points (Additional).....	3.5 mm	blue circle on back of sheet
Points not strongly determined..... Radial Points (Blue) H & T Stations (Black)	2.5 mm	circle with tick marks indicating number and direction of cuts.
Photograph Centers.....	double	blue circle on back of sheet

INTERPRETATION OF PHOTOGRAPHS

The photographs were clear and accurate interpretation was obtained with no unusual conditions being found.

FIELD INSPECTION AND DATE OF Survey

Field inspection was made by Lieut. (j.g.) E. L. Jones and H. A. Duffy, Photogrammetric Aid, during November, 1940 and January and February, 1941. The field inspection done during November, 1940 was done on 1:20,000 scale photographs and that done in January and February, 1941 on 1:10,000 scale photographs. Notes were sufficient for accurate interpretation of vegetation.

A special trip was made on August 25, 1941 to verify the locations of the non-floating aids in the Anclote River. The positions as shown on this sheet are those at which the navigational aids were found on this date. This inspection was made by Lieut. (j.g.) J. D. Thurmond and H. A. Duffy.

~~Date of Survey is as of date of photographs, Dec. 7, 1939~~

DETAILING

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

The shoreline and vegetation detail for the north part of Anclote Keys was taken from Photograph No. 3939 while the southern part was taken from Photograph No. 3937. These photographs were sufficient and were in good scale. It was not necessary to use Photograph No. 3938 except as a check. The scale of Photograph No. 3938 is fair. The southern half of Photograph No. 3905 was found to be of reasonably good scale and was used southward from the center until a better interpretation could be obtained from Photograph No. 3906. This photograph was used when it became evident that its scale was better and a clearer interpretation could be had by its use. Photograph No. 3906 was in good scale and a large area was detailed from it. Photograph No. 3907 was used for detailing the area south of Photograph No. 3906. The scale of photograph No. 3907 was very good. Photographs Nos. 3941 and 3942 were not in very good scale and were used only as a check on the interpretation of vegetation and shoreline. Photographs Nos. 3944, 3945 and 3986 were found to be in good scale in small areas only. These three photographs were used, therefore, utilizing the most accurate area of each, and it is believed an accurate detail of Tarpon Springs and vicinity was obtained.

Some difficulty was experienced in detailing the northeast corner of this sheet due to the lack of a good scale photograph in this area. Photographs Nos. 3905 and 3944 were used for this area and it is believed that, by making the necessary adjustments, a reasonably accurate detailing of the area has been obtained.

Since the field inspection notes on this sheet was made on 1:20,000 scale field photographs and since the survey sheet is on 1:10,000 scale, some difficulty was experienced in transferring the information from one scale to another. This delayed the completion of the survey sheet somewhat, but it is not thought that any accuracy or completemess was sacrificed in the process.

Before detailing, the surface of this sheet was rubbed down with magnesium carbonate and then washed off. No additional cleaning or reinking has been necessary.

Symbols have been used whenever the vegetation was not of consistent density.

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

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

JUNCTIONS

This sheet joins T-5802 (1:20,000) on the north and east and T-5819 (1:10,000) on the south. The junctions are in agreement. When checking the junction between sheet T-5802 and T-5818, the junction detail on the latter was reduced to 1:20,000 scale by a precision pantograph.

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.

GEOGRAPHIC NAMES

The geographic names for this area are the subject of a special report entitled "Investigation of Geographic Names, Horseshoe Point to Anclote Keys", submitted by Lieut. (j.g.) E. L. Jones to the Washington Office.

LANDMARKS

The following landmarks appear on this sheet: TARPON SPRINGS MUNI. TANK, 1934 (PON, 1925) and TARPON SPRINGS MUNI. TANK, 1934 (TAR 1925). These landmarks now appear on Chart No. 178. In addition, it is recommended that the steel storm warning flagtower at Tarpon Springs (plotted as "FLAG TOWER") be charted. The latter is submitted on Form No. 567, which is a part of this report.

MISCELLANEOUS

An uncharted wreck covered at M.L.W. has been reported to be about 300 meters west and slightly south of Municipal Pier, (Lat. 28° 08.8'; Long. 82° 47.7'). It should be investigated by the hydrographic party.

Respectfully submitted,

William H. Shearouse

William H. Shearouse,
Engineering Draftsman (Topo.)

Forwarded,

Kenneth G. Crosby

Lieut. Kenneth G. Crosby,
Chief of Party.

T-5818 No. 1

	Remarks	Decisions
1		281328
2		"
3	Submitted to USGB: OK to apply pending decision	282828
4		281828
5		"
6		282827
7		"
8		281827
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		281828
17		"
18	Submitted to USGB: OK to apply pending decision	281327
19		"
20		"
21	" " " "	"
22		"
23	" " " "	"
24		"
25		"
26		"
27		"
M 234		

GEOGRAPHIC NAMES

Survey No. T-5818

No. 1

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.	
Anclote Keys										1
Anclote Key										2
North Keys										3
Dutchman Island Key LA 1-11-41										4
Anclote Anchorage										5
Sand Bay										6
Baileys Bluff										7
The Cabbage										8
The Union										9
The Sawgrasses										10
Lake Conley										11
Lake Nash										12
Anclote										13
Anclote River										14
House Island										15
Bird Key										16
Sponge Harbor Point										17
Rabbit Key										18
Piney Point										19
Sand Point										20
Iron Post Point										21
Sunset Hills										22
Lake Avoca										23
Kreamer Bayou										24
Chesapeake Point										25
Tarpon Bayou										26
Minetta Bayou										27

M 234

T-5818 No. 2

	Remarks	Decisions
1		281827
2		"
3		"
4		"
5		"
6		"
7	Marked on sheet: name approved on name sheet 22. added to reduced Ce 1. RFE	"
8		
9	Several sources have Tarpon Beach around this pier.	"
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
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21		
22		
23		
24		
25		
26		
27		
M 234		

GEOGRAPHIC NAMES

Survey No. T-5818

No. 2

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	
Spring Bayou										1
The Canal										2
Sponge Exchange										3
Tarpon Springs										4
Whitcomb Bayou										5
Hidden Lake										6
Meyers Cove										7
Gulf of Mexico										8
Municipal Pier										9
Pasco County										10
Pinellas County										11
										12
				L Heck	11.15.41					13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

M 234

Form 567
Rev. March 1935

T-5818

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

~~LANDMARKS FOR CHARTS~~

List of permanent (non-floating) Aids to Navigation, Anclote SW BAR & Anclote Anchorage - February, 1941.

TO BE CHARTED / ~~TO BE DELETED~~ } STRIKE OUT ONE

Tampa, Florida September, 6, 1941

I recommend that the following objects which have (~~not~~) been inspected from seaward to determine their value as landmarks, be charted on (~~deleted from~~) the charts indicated.

The positions given have been checked after listing.

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

GENERAL LOCALITY / NAME AND DESCRIPTION	POSITION LATITUDE ° ′	LATITUDE D. M. METERS	LONGITUDE ° ′	LONGITUDE D. P. METERS	DATUM	METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
not on T-5818 ANCLOTE SW BAR Light No. 1	N 1,383,	772.9 ft.	E 220,	908.8 ft.	N. A. 1927	U.S.E.D.	2-2-41		x		178;1257
not on T-5818 ANCLOTE SW BAR Beacon No. 3	N 1,383;	777.9 ft.	E 222,	744.6 ft.	"	"	"		x		" "
ANCLOTE SW BAR Beacon No. 5	N 1,383,	789.5 ft.	E 225,	196.3 ft.	"	"	"		x		" "
ANCLOTE SW BAR Light No. 7	N 1,383,	799.0 ft	E 226,	662.6 ft.	"	"	"		x		" "
ANCLOTE SW BAR Beacon No. 8	N 1,389,	493.2 ft.	E 230,	189.9 ft.	"	"	"		x		" "
ANCLOTE SW BAR Beacon No. 10	N 1,392,	203.7 ft.	E 231,	677.3 ft.	"	"	"		x		" "
ANCLOTE SW BAR Beacon No. 7x	N 1,394,	884.2 ft.	E 229,	978.3 ft.	"	"	5-5-37		x		" "
ANCLOTE SW BAR Beacon No. 5 X		destroyed		Note	—	—	—				
ANCLOTE SW BAR Beacon No. 3 X		Destroyed									
ANCLOTE ANCHORAGE Light No. 6	28 12	1128	82 49	389	"	Sextant	8-25-41		x		" "
ANCLOTE ANCHORAGE Beacon No. 3	28 11	1034	82 48	1536	"	Sextant	8-25-41		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.

U. S. GOVERNMENT PRINTING OFFICE 89675

Form 567
Rev. March 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

~~LANDMARKS FOR CHARTS~~

List of Permanent (non-floating) Aids to Navigation, Anclote River, August 25, 1941.

T-5818

TO BE CHARTED / ~~DELETED~~ } STRIKE OUT ONE

Tampa, Florida September 6, 1941

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

The positions given have been checked after listing. KGC

Kenneth G. Crosby
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									
	°	′	D. M. METERS	°	′	D. P. METERS	DATUM						
ANCLOTE RIVER - Light No. 1	28	10	689	82	49	896	N.A. 1927	Air Photo. & Sextant	8/25/41		x		178;1257
ANCLOTE RIVER - Beacon No. 2	28	10	578	82	49	949	"	Sextant	"		x		" "
ANCLOTE RIVER - Beacon No. 2A	28	10	668	82	49	860	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 3	28	10	919	82	49	277	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 4	28	10	875	82	49	258	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 5	28	10	1124	82	48	1334	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 6	28	10	1058	82	48	1348	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 8	28	10	1304	82	48	639	"	"	"		x		" "
ANCLOTE RIVER - Light No. 9	28	10	1415	82	48	409	"	Air Photo. & Sextant	"		x		" "
ANCLOTE RIVER REAR RANGE LIGHT	28	10	1514	82	48	733	"	"	"		x		" "
ANCLOTE RIVER REAR RANGE LIGHT	28	10	1542	82	48	40	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 10	28	10	1341	82	48	276	"	Sextant	"		x		" "
ANCLOTE RIVER - Beacon No. 11	28	10	1281	82	47	1511	"	"	"		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.

U. S. GOVERNMENT PRINTING OFFICE 69675

Form 567
Rev. March 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Sheet No. 2 T-5818

LANDMARKS FOR CHARTS

TO BE CHARTED } STRIKE OUT ONE
TO BE DELETED }

_____, 193

I recommend that the following objects which have (*have not*) been inspected from seaward to determine their value as landmarks, be charted on (*deleted from*) the charts indicated.

The positions given have been checked after listing.

H.C.
Chief of Party.

GENERAL LOCALITY / NAME AND DESCRIPTION	POSITION LATITUDE ° ′	LATITUDE D. M. METERS	LONGITUDE ° ′	LONGITUDE D. P. METERS	DATUM	METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
ANCLOTE RIVER - Beacon No. 12	28 10	1220	82 47	1526	N.A. 1927	Sextant	8/25/41		x		178;1257
ANCLOTE RIVER - Beacon No. 13	28 10	1180	82 47	1168	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 14	28 10	1117	82 47	1180	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 16	28 10	1021	82 47	853	"	"	"		x		" "
ANCLOTE RIVER - Light No. 17	28 10	1041	82 47	765	"	Air Photo. Sextant	"		x		" "
ANCLOTE RIVER - Beacon No. 18	28 10	979	82 47	788	"	Sextant	"		x		" "
ANCLOTE RIVER - Beacon No. 19	28 10	640	82 47	485	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 20	28 10	604	82 47	538	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 21	28 10	221	82 47	207	"	"	"		x		" "
ANCLOTE RIVER - Light No. 22	28 10	116	82 47	176	"	Air Photo. Sextant	"		x		" "
ANCLOTE RIVER REAR RANGE LIGHT	28 09	1619	82 46	1577	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 23	28 10	117	82 47	68	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 25	28 10	58	82 46	1573	"	Sextant	"		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.

U. S. GOVERNMENT PRINTING OFFICE 69676

Form 567
Rev. March 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Sheet No. 3

T-5818

LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE DELETED } STRIKE OUT ONE

_____, 193

I recommend that the following objects which have (*have not*) been inspected from seaward to determine their value as landmarks, be charted on (*deleted from*) the charts indicated.

The positions given have been checked after listing.

_____
Chief of Party.

GENERAL LOCALITY / NAME AND DESCRIPTION	POSITION LATITUDE ° ′	LATITUDE D. M. METERS	LONGITUDE ° ′	LONGITUDE D. P. METERS	DATUM	METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
ANCLOTE RIVER - Beacon No. 28	28 09	1744	82 46	1384	N.A. 1927	Sextant	8/25/41		x		178;1257
ANCLOTE RIVER - Light No. 29	28 09	1740	82 46	1272	"	Air Photo. Sextant	"		x		" "
ANCLOTE RIVER - Beacon No. 30	28 09	1653	82 46	1265	"	Sextant	"		x		" "
ANCLOTE RIVER - Beacon No. 32	28 09	1498	82 46	1127	"	Air Photo. Sextant	"		x		" "
ANCLOTE RIVER - Beacon No. 34	28 09	1298	82 46	938	"	Sextant	"		x		" "
ANCLOTE RIVER - Beacon No. 35	28 09	1225	82 46	809	"	Air Photo. Sextant	"		x		" "
ANCLOTE RIVER - Light No. 36	28 09	1131	82 46	754	"	"	"		x		" "
ANCLOTE RIVER REAR RANGE LIGHT	28 09	981	82 46	614	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 37	28 09	1189	82 46	699	"	Sextant	"		x		" "
ANCLOTE RIVER - Beacon No. 38	28 09	1162	82 46	479	"	"	"		x		" "
ANCLOTE RIVER - Light No. 39	28 09	1218	82 46	363	"	Air Photo. Sextant	"		x		" "
ANCLOTE RIVER - Beacon No. 40	28 09	1143	82 46	341	"	Sextant	"		x		" "
ANCLOTE RIVER - Beacon No. 42	28 09	1062	82 46	183	"	"	"		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.

U. S. GOVERNMENT PRINTING OFFICE 66875

Form 567
Revised March 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Sheet No. 4

T-5818

LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE DELETED } STRIKE OUT ONE

_____, 193

I recommend that the following objects which have (*have not*) been inspected from seaward to determine their value as landmarks, be charted on (*deleted from*) the charts indicated.

The positions given have been checked after listing.

L. G. C.
Chief of Party.

GENERAL LOCALITY / NAME AND DESCRIPTION	POSITION LATITUDE ° ′	LATITUDE D. M. METERS	LONGITUDE ° ′	LONGITUDE D. P. METERS	DATUM	METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
ANCLOTE RIVER - Light No. 43	28 09	1056	82 46	111	N.A. 1927	Air Photo Sextant	8/25/41		x		178;1257
ANCLOTE RIVER - Beacon No. 44	28 09	999	82 46	149	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 45	28 09	947	82 46	106	"	"	"		x		" "
ANCLOTE RIVER - Light No. 46	28 09	856	82 46	152	"	Air Photo. Sextant	"		x		" "
ANCLOTE RIVER - Beacon No. 47	28 09	812	82 46	88	"	Sextant	"		x		" "
ANCLOTE RIVER - Light No. 48	28 09	683	82 46	100	"	Air Photo. Sextant	"		x		" "
ANCLOTE RIVER - Beacon No. 49	28 09	710	82 45	1595	"	Sextant	"		x		" "
ANCLOTE RIVER - Beacon No. 50	28 09	646	82 45	1503	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 26-S	28 09	996	82 46	267	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 28-S	28 09	875	82 46	298	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 11-S	28 09	787	82 46	301	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 30-S	28 09	550	82 46	157	"	Air Photo. Sextant	"		x		" "
ANCLOTE RIVER - Beacon No. 13-S	28 09	409	82 46	97	"	"	"		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.

U. S. GOVERNMENT PRINTING OFFICE 69675

Form 567
March 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Sheet No. 5 T-5818

LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE DELETED } STRIKE OUT ONE

_____, 193

I recommend that the following objects which have (*have not*) been inspected from seaward to determine their value as landmarks, be charted on (*deleted from*) the charts indicated.

The positions given have been checked after listing.

_____
Chief of Party.

GENERAL LOCALITY / NAME AND DESCRIPTION	POSITION LATITUDE ° ′	LATITUDE D. M. METERS	LONGITUDE ° ′	LONGITUDE D. P. METERS	DATUM	METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
ANCLOTE RIVER - Beacon No. 32-S	28 09	284	82 46	24	N.A. 1927	Sextant	8/25/41		x		178;1257
ANCLOTE RIVER - Beacon No. 34-S	28 09	173	82 45	1577	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 36-S	28 09	105	82 45	1532	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 15-S	28 08	1641	82 45	1525	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 38-S	28 08	1515	82 45	1472	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 40-S	28 08	1423	82 45	1325	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 17-S	28 08	1419	82 45	1284	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 42-S	28 08	1522	82 45	1201	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 19-S	28 08	1529	82 45	1090	"	"	"		x		" "
ANCLOTE RIVER - Beacon No. 44-S	28 08	1469	82 45	995	"	"	"		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.

U. S. GOVERNMENT PRINTING OFFICE 69876

REVIEW OF AIR PHOTO COMPILATION NO. T- 5818

Chief of Party: Kenneth G. Crosby Compiled by: W.H. Shearouse

Project: H.P. - 242 Instructions dated: April 3, 1941

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, including lights and beacons in Anclote River.

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

Yes. See List of non-floating aids.

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)

Sextant Fixes on lights and beacons not located by main radial plot.

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)

Yes. City of Tarpon Springs (blue line print)
Southwest Bar Channel- Anclote. (U.S.E.)

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.

General comparison made only due to large scale differences.

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 marsh 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. Low water line is approximate and shoal areas are indicated as an aid to the hydrographer.

9. Recoverable objects have been located and described on Form 534 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 87)

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. 164, e; and 60)

Yes

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. 16s)

Yes

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. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)

No overlay. See paragraph entitled "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, 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)

13. No additional surveying is recommended at this time.

No additional topographic survey required at this time.

17. Remarks:

Sketch book containing rough field notes for sextant fixes at lights and beacons not located by main radial plot is submitted for checking purposes.

18. Examined and approved:

Lieut. 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, Section of Field Work

Chief, Division of Charts

Chief, Division of Hydrography

DIVISION OF PHOTOGRAMMETRY

REVIEW OF PLANIMETRIC MAP T-5818

T-5818 was compiled in 1941, but processing in the Washington Office was not completed until August 1946 because of war mapping 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-5818 were used as a base in preparing quadrangle T-8361, which was completed in 1944. This quadrangle is more recent and more complete as regards map details than T-5818, but is at a smaller scale.

This review report was prepared by B. G. Jones in August 1946 from incomplete reviewer's notes and after re-examination of the manuscript and field photographs.

Main Radial Plot:

The radial plot was adequately controlled and has been accepted without checking in this office.

Field Inspection and Detailing:

The field inspection was adequate and the compilation of map details complete.

Aids to Navigation:

No exact information is given in the descriptive report as to the method of location of numerous lights and beacons shown on T-5818. The aids in the southwest corner of the sheet apparently were plotted from Engineer coordinate positions, as listed on sheet 1 of Form 567 included in the descriptive report. These aids could not have been radial plotted from the nine-lens photographs.

Of the remaining aids to navigation, some were identified by field inspection and located by radial plotting and others were located by sextant angles during the field inspection and plotted on the manuscript from the sextant fixes. The record of sextant fixes apparently was not transmitted with the manuscript.

The note on page 4 of the report regarding verification of aids by field inspection in aug 1941 apparently applies to the aids in the arctic river only. BGJ

Comparison with Previous Surveys:

T-5818 has been compared with the following previous topographic surveys in July 1946, and is complete and adequate to supersede those sections of the older surveys which it covers.

T-4213	1:10,000	1926
T-4219	1:20,000	1925-26
T-1698	1:20,000	1884

Comparison with Nautical Charts:

T-5818 was applied to Chart 1257 in October 1942 and to Chart 1258 in September 1943. No changes have been made during the review which affect these charts.

APPROVED BY:

B.G. Jones 8/46
B. G. Jones, Technical Asst.
Div. of Photogrammetry

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

K.T. Adams
Chief, Div. of Photogrammetry

Raymond P. Gyman
Chief, Div. of Coastal Surveys

Form 537a
Ed. Nov. 1929

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
~~Field~~ No. T-5818

REGISTER NO.

State Florida

General locality Florida West Coast

Locality Anclote Keys & Tarpon Springs

Scale 1:10,000 Date of ~~survey~~ Photos. December 7, 1939

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

Chief of party Lieut. Kenneth G. Crosby

~~Surveyed~~ Field Inspected by Lieut. (j.g.) E.L. Jones; H.A. Duffy, Photo. Aid.

Inked by William H. Shearouse

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

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

Instructions dated April 3, 1940

Remarks:

GPO

SHEET NO. T-5818

SUPPLEMENTARY SURVEYS

	Name	Date	Hours
Control Surveys	KWS,WHS,WOG	April	6
Planetable Surveys			
		Total	6

FIELD INSPECTION

Preparation of Photographs	KWS	Jan. & Feb.	16
Field Work	ELJ,HAD,MMS,JCM	February	48
Inking Notes	JDT,MMS	February	6
Coast Pilot Notes			
Geographic Name Report	HAD,MMS,LJD	March & June	4½
Landmarks for Charts			
Description Cards	HAD,MMS,KGC	March & Aug.	16
Recovery Notes			
		Total	90½

MAIN RADIAL PLOT

Scale Plot	KGC	April	2½
Projection on Base Sheet	Wash. Office		
Projection on Survey Sheet			
Control Plotted	KGC	April	6
Control Checked	WHS	April	6
Control Trans. to Base Sheet	KGC	May	1
Transfer Checked	KWS	May	2½
Control Picked on Photographs	JAG	March	45
Control Checked on Photographs	JED	March	17
Hydro. & Topo. Stations Picked	JAG,JED,KGC,KWS	March,Apr.,Aug	50
Radial Points Picked	KWS	April	27
Adjacent Centers Picked	KWS,MMS	Feb. & April	3
Templates	JED	April	16½
Radial Plot	X	May	10
Radial Points Transferred	WHS,LJD	May	7
Transfer Checked	KWS,LJD	May	7
H & T Stations Scaled & Checked	WHS,KGC,RHY	June,Aug.Sept.	13
Additional Radial Points			
X, Various Office Personnel		Total	213½

DETAILING

Rough Draft	WHS	May,June,July	281
Smooth Draft			
		Total	281

COMPILATION

Name Overlay	WHS	July	14
Descriptive Report	WHS,KGC	July, August	16
Field Review	KGC	August	39½
		Total	69½

Total Time Spent on Sheet: 660½ Hours

SHEET NO. T- 5818

PHOTOGRAPHS

Number	Date	Time	Stage of Tide
3905	December 7, 1939	10:55	1.6
3906	December 7, 1939	10:56	1.6
3907	December 7, 1939	10:57	1.6
3937	December 7, 1939	11:23	1.5
3938	December 7, 1939	11:23	1.5
3939	December 7, 1939	11:24	1.5
3941	December 7, 1939	11:26	1.5
3942	December 7, 1939	11:26	1.5
3944	December 7, 1939	11:34	1.3
3945	December 7, 1939	11:34	1.3
3986	December 7, 1939	12:11	1.2

Tide from predicted tables for: Anclote Keys, south end
Reference Station: Tampa Bay Florida

Camera: U.S. Coast and Geodetic Survey Nine-Lens (focal length 8½ inches)
Negatives on file at Washington Office.

SCALE

Mean scale of Photographs..... 1:10,000 ÷ 1.0027
Scale of Survey Sheet..... 1:10,000

STATISTICS

Area (land).....	13.5	Square statute miles
Shoreline (more than 200 m. from opposite shore).....	26.8	Statute miles
Shoreline (creeks).....	9.0	Statute miles
Roads, streets, trails, and railroads.....	63.5	Statute miles

REFERENCE STATION

Station: TARPON, 1934

Datum: N.A. 1927

Florida State Coordinates
Zone 2 (West)

Latitude: 28° 10' 16.610" (511.3 m)

Longitude: 82° 47' 40.184" (1096.2 m)

x = 244,021.35 ft.
y = 1,395,754.60 ft.
Plotting Checked by F.H. McBeth

Date of Survey See Page 4