5793

Diag'd. on Diag. Ch. No. 1259

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photographic

Field No. CS-242-A Office No. T-5793

LOCALITY

State Florida

General locality Gulf Coast and Vicinity

Locality Summer and Vicinity

194 1

CHIEF OF PARTY

LIBRARY & ARCHIVES

K.G.Crosby

DATE

B-1870-1 (I



DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY

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

1Edwirk No. T-5793

REGISTER NO.

State Florida
General localityWest Coast
Locality Vicinity of Summer and Vicinity Photos.
Scale 1:20,000 Date of survey December 3 & 4 , 19 39 Party Vesset Air Photographic Party No. 1
Chief of party Lieut. Kenneth G. Crosby Field Inspected Surveyed by H.A. Duffy, Photogrammetric Aid, June-July, 1940
Inked by James H.S. Billmyer
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated
Remarks: Compiled from 9 lens photographs.

Ms. received: 24 Mar. 1941 Reviewed: 5 July 1941 Published: 25 Mar. 1943 1:20000

Registered: 17 Jan. 1949.

SUPPLIESTED SURVETS

SUPPLEMENTARY SURVEYS				
		1940;41	Ho:	
	Heuse	: Date	CARL THE MARK SET VIN LINE TO	Manager and the Control of the Contr
Control Surveys	RHY - KWS	July 27 - 31	27	
Planetable Surveys		1.		
* Computations only		Total	27	
FIND INSPECTION				manufacture de la constitución d
Proparation of Photographs	ELJ - WHS	July 26-31	8	
Field horks account accessors access	HAD-EM-KM2	May-June-Sept		
Inking Hotogenessessessessesses	HAD - ELU	: September	3	
Coast Pilot Motes	ELD - KGC	Dec. 19-26	1 19	
Geographic Name Report	HAD - ELD	SEPT. & DEC.	13	
Landmarks for Charts			a an	
Description Cards		June & Dec.	37	
Recovery Notes		Total	119	
		-74-02		
MAIN HADIAL PLOT				
				and the same of the same
Scale Plot	ELJ - RHY	July 2	2	
Projection on Base Shest	Washington Offic	ce	-	
Projection on Survey Sheet			. 4	
Control Plotted	ELL - RCC	Aug. & Dec.		
Control Chooked Short	VCC - ELI	Aug. & Dec.	A STATE OF THE STA	
Control Trans. to Bass Sheet	ELT - KGC	Aug. & Dec.		
Control picked on Photographs	ELJ-JHSB-RD	June & Nov.		
Control checked on Photographs	DRS	July & Dec.	: 5	
Hydra, & Topo. Stations picked	1 X	July & Nov.		
Redial points picked	ELJ-KWS-KGC	July & Nov.		
As lacent centers picked	X	July & Oct.		
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Radial Plotossessessessessessessessessessessessesse	VCC-THSR	Aug. & Dec.		
Rodial Points transferred	KGC - JHSB	Aug. & Dec.	. 4	
H z Stations scaled a shocked	JHSB - KGC	* Feb. 1941	: 7	
Additional Redial points	JHSB	1 December	1 20	
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X, Various office personnel.				
DEVAILING				and the second second
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Rough Draft.	1 4	Feb. 41	1	
	and the section of th	Total	213	3
POUNT ANTON				
COMPILATION				
Neme Overlay	JHSB	Feb. 1941	: 1	
Descriptive Reports	JHSB - KGC	Feb. 1941	1 10	
Field Hoview	* KGC	: Feb. 1941	: 10	AND RESIDENCE OF STREET
	A PROPERTY OF	Total	3.	2
			. 507	1
Total Time spent on Sheets	************	***********	1 587	hours.
				Author South Control to the Party

PHOTOGRAPHS

Number	•	Date :	Time :	Stage of Tide
3703		December 3, 1939	11:03 A.M.	+ 0.4
3704		December 3, 1939	11:04	+ 0.4
3705	3	December 3, 1939:		+ 0.4
3832		December 4, 1939:		+ 1.0
3833		December 4, 1939 :		+ 1.0
3859		December 4, 1939:		+ 0.5
3861		December 4, 1939:	12:17	+ 0.5

Tide from predicted tables for: Cedar Keys
Reference Station: Tampa Bay

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

SCALE

Mean scale of Photographs	1:20,000 : 1.0025
STATISTICS	
Area (land)	Square statute miles Statute miles Statute miles Statute miles

REFERENCE STATION

Station: DKENS, 1933

Latitude: 29° 11' 15.050"

(462.7 m.)

Longitude: 83° 00' 41.662"

(1125.6 m.)

(Adjusted)

Date of Survey: all details are of date of photographs, Dec. 3 & 4, 1939, the field inspection having located no newer details.

x coordinate = 177,208.72 ft. } Sec. 2 y =1,765,787.66 ft. West Zone To Accompany
SHEET NO. T--5793

GENERAL

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

The general locality of the area covered by this survey sheet is Florida, West Coast, Levy County, in the vicinity of the village of Sumner.

The area along the shoreline is marshy. A large area between the road from Cedar Keys to Otter Creek and the coast is swamp. There is a strip of higher ground between this swamp and the marshy area. This higher ground is densely wooded with pine and cedar, with scattered palms and deciduous trees. The line of demarcation shown between the swamp and higher ground is only approximate and in the smooth drafting the two types of vegetation should be shown as gradually merging into each other. North of the main highway, the vegetation is mostly grass land with pine, brush and some deciduous trees. There are numerous small cultivated and swamp areas scattered throughout this area.

All of the small islets adjacent to the marshy areas are also marshy unless otherwise shown.

Most of the dry vegetation areas were detailed with symbols as very little of the vegetation was of uniform density.

Approximate M.L.W. is shown by a dotted line, and approximate limits of shoal areas are shown by a dashed line. The latter is shown for use of the hydrographer only and will not be whom on the punts espice of T 5793.

All roads should be shown 0.6 m.m. wide, as none of the roads on this sheet are more than 12 meters wide.

Fire breaks were omitted on this drawing.

Due to the poor scale of the clearest photographs along the shoreline, a great many additional radial points were necessary. It is believed that more time was saved in the detailing by the use of these points than was required in the plotting of them.

MAIN RADIAL PLOT

The locations of points on this sheet were determined by two main radial plots which were laid August 10 - 19th. and Dec. 5 - 6, 1940 respectively. In general the points north of latitude 30° 12' were determined by the previous plot and those south of this parallel by the plot laid Dec. 5-6. The location of the points already established northward of the vicinity of the junction were again verified by the latter plot and very close agreement

290-11 /82-501

was obtained, usually less than .15 m.m. In several instances and more especially in the northeastern area, several points differed slightly with two of the three radial lines of the latter plot passing through the old positions. In such cases, the position previously determined has been held and the radial lines of the present plot transferred to the survey sheet for verification of the radial line, or lines, not passing through the old position.

Within the area of this sheet to be detailed on the 1:10,000 scale survey sheet No. T-5804, points have been selected and located by this plot which were also determined in the main radial plot for the 1:10,000 sheets. The area south of Lat 2911 and west of Long. 82.59 left blank by the field panty will be filled in from 75804 This office.

This plot was run on December 5-6, 1940 and covers the southern part of

This plot was run on December 5-6, 1940 and covers the southern part of T-5793 as mentioned above and all of sheets Nos. T-5794 - T-5798, inclusive, comprising the area between Cedar Keys and the Chassahowitzka River. All photographs within this area were used including photographs in the vicinity of Cedar Keys, namely; Nos. 3858, 3859, 3837, 3838, 3839, 3703, 3704, and 3705. Of these latter pictures, all had been used in the previous radial plot involving sheet T-5793 except photographs Nos. 3858 and 3859, which had not been furnished at the time the previous plot was laid. Good agreement was obtained for the location of radial points at the junction of this and the previous main plot except as mentioned above.

This plot comprised of 41 templates and extended along the coastline for a distance of approximately 40 miles (nautical). Practically all templates were controlled by three or more triangulations and/or traverse stations, there being only one template with no control on it, namely, 3877. All templates were made in accordance with "Notes on Radial Plotting of Nine-lens Air Photographs" dated April 9, 1940 with the exception that many more radial points were located than recommended and that mask lines were not placed on the survey sheet.

The templates which were rigidly controlled were laid first, followed by those not so rigidly controlled. Agreement along the flightline was very good and most of the locations determined by the radial plot resulted in the common intersection at a point of three or more radial lines.

The usual practice was followed which consisted of plotting the control on the survey sheet and transferring it to the grid sheet, the latter being securely taped to the plotting table for running the plot. There was only a very slight amount of adjustment necessary when transferring the control by matching the individual grid squares. Upon completion of the plot, the radial points were picked and circled on the upper layer of templates and then transferred to the survey sheet by again matching grid squares.

Points determined by three or more radial lines intersecting at a common point were circled by 2.5 millimeter circles. Where a small triangle of error resulted, the point was picked in the center of gravity of the triangle giving due regard to the strength of the intersections resulting from the radial lines. In cases where the triangle of error was large, the radial lines were transferred directly to the survey sheet for additional study by the compiler to obtain a common point of intersection. It is believed that all points located by three or more radial lines on this plot are within .25 m.m. of their correct position.

3

1671

On the extreme edges of the sheets it was possible in some areas to obtain but two radial lines. Such points are to be used with caution and are indicated by 2.5 millimeter blue circles on the back of the survey sheet with tick marks to show number and direction of radial lines at that point. No large or unusual adjustments were necessary in any part of the plot.

Various colored inks were used on the photographs and the survey sheet to designate triangulation stations, topographic and hydrographic stations, and radial points. The following key is furnished for future reference.

PHOTOGRAPHS

SURVEY SHEET

CONTROL

Ten traverse stations fall within the tracing limits of the sheet. The stations are AK 2 to AK 11, inclusive, and were established by the Florida Mapping Project in 1934.

Five other Florida Mapping Project traverse stations and three triangulation stations established by the U.S.C.&G.S. fall on the sheet but outside of the tracing limits. All of these stations were used for control for the main plot in addition to the ten traverse stations mentioned above.

The traverse stations were plotted from computations made in the field office of this party from data furnished by the Florida Mapping Project. This data consisted of taped distances and angles between triangulation stations HUKENS 1933 and OTTER 1953. These computations will be submitted as a separate report. Report is filed in the Division of Geodesy

Station WKENS, established by H.C. Warwick in 1933, was used as a reference station although this station fell just outside of the tracing limits. This was done because no published geographic coordinates were available for the traverse stations which fell inside of the tracing limits. This paragraph not close that the tracing limits. This paragraph were computed. Its to be the same and geographic fortions where computed. Its the tracing limits are control of the tracing limits.

INTERPRETATION OF PHOTOGRAPHS

Field notes on vegetation were very meager, but no difficulty was experienced in the interpretation, as the draftsman has detailed previous sheets of similar vegetation. In some cases the field prints were much clearer than the office prints. These field prints were used for some of the shore line detailing.

FIELD INSPECTION

The field inspection was made by Harold A. Duffy, Photogrammetric Aid, by truck and skiff during the months of June - August, 1940. The legend used by the field inspection party is made a part of this report.

DETAILING

Before any inking was done, the entire sheet was rubbed with dry magnesium carbonate and then washed off with water. No additional cleaning was necessary during the inking. The ink has adhered to the sheet exceptionally well and only a slight amount of retouching has been necessary.

The scale of the photograph was fair with the exception of Photograph No. 3703 which could not be used.

JUNCTIONS

This sheet joins T-5791, T-5792 and T-5804 on the west, and T-5794 and T-5795 on the east. All junctions are in good agreement.

Sheet No. T-5804 is on a scale of 1:10,000. This junction was pantographed to a scale of 1:20,000 and traced in blue ink on the back of T-5793.

COMPARISONS WITH OTHER SURVEYS

Comparisons were made with bromide prints of Topographic Sheets 423 made in 1852-54, 572 made in 1856, and 699 made in 1858.

The shoreline does not agree very well between the two swamps, but as the area is marshy and with a very indefinite vegetation line in many places, close agreement is not expected after a period of over eighty years.

Due to large scale differences, accurate comparisons with the maps and charts of this area were not practicable.

GEOGRAPHIC NAMES

The investigation of geographic names on this sheet is the subject of a special report entitled "Investigation of Geographic Names, Horseshoe Point to Anclote Keys", submitted to the Washington Office by Lieut. E. L. Jones.

LANDMARKS

It is recommended that SUWANNEE LOOKOUT TOWER (95 ft. high) be charted for a landmark. This tower was located in the field as a topographic station. Form 567 attached to this report by the field party has been turned over FIELD INSPECTION REPORT to the Accommunicate Nautical chart Section 7/9/4/

Reference should be made to a special report covering field inspection in this area submitted by Lieut. E.L. Jones and entitled, "Field Inspection Report - Horseshoe Point to Anclote Keys - December 27, 1940".

Filed in Air Photo Unit

Respectfully submitted,

James H.S. Billmyer Draftsman

Forwarded,

Semetty G

Chief of Porty

REVIEW OF AIR PHOTO COMPILATION NO. T- 5793

Chief of Party: Kenneth G. Crosby Compiled by: James H.S. Billmyer

Project: H.T. - 242

Instructions dated: April 3

L9 4(

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 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)

Yes

5. 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

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

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, see also No. 17

- 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. Outline of sheal areas, indicated by a dashed line, are shown only as an aid to the hydrographer.
- 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)

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. 16c)

No bridges of navigational importance. All bridges are small fixed span highway bridges over small unnavigable streams.

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 adviseable. 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 Special Report entitled "Investigation of Geographic Names - Horseshoe Point to Anclote Keys" submitted by Lieut. (j.g.) E. L. Jones.

15. 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.
 - The degrees and minutes of Latitude and Longitude are correctly marked.

- All station points are exactly marked by fine black dots.
- 4. Closely spaced lines are drawn sharp and clear for printing. Yes
- Topographic symbols for similar features are of uniform weight. Yes, legend also used on rough draft.
- 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.

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

No additional surveying is recommended at this time. No additional topographic survey required.

17. Remarks:

The light line around marsh or mangrove areas defines the outer limits of vegetation visible at mean high water. The mean high water is shown only on fast land and is represented by a heavy solid line. 18. Examined and approved:

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

LEGAMD USED ON PIRID INSPECTION RORS USEON POINT TO TARPON STRINGS, FIGHINA APRIL - DECREBER, 1940 - LIMIT, N.L. JOHES AND H.A. MUPTE

TRICE

Pi - Pine

Cy - Cypress

Palo - Palmetto

Palm - Palm

D T - Decidnous trees (broad leaf)

Cit - Citrus (orchard)

Mix - Pine, cypress & Dec. trees

(Density)

Sot. - Scattered

tows - Thinly wooded

howo - Reavily wooded

Ser - Serub trees: brush

VEGETATION

C - Cultivation

Gr - Grass

70r - Tall Tropical Grace

H - Esrsh (dashed blue line on

inchore limits)

HF - March grass in water (dashed blue

line on offshore limits)

\$11 - S11110p

lig - Mangrove

Hdg - Rodge

BUILDE

Ca - Canal (width)

Or - Creek

D - Ditch (width)

I S - Intermittent Stream

bever yangs apartless aldedos - UE

log - bridge or ayubol

Ov - Calvert

Lav - Lavos

P.G.S. - Florida Geodetic Survey

U.S.R. - U.S. Ingineers

USB - U.S. Melegical Survey

ROADS & RAILROADS

Rd 1 - let class roud (paved)

Rd 2 - Sad class road

Tr - Prail

RR - Rail Road

0 P - Overpage (state the kind)

U P - Underpass (state the kind)

Z - shendoned trail, road, etc.

ER ab. - Hollo abandoned (grade only)

POSTOS

- Fond

Cy F - Cypress Fond

I P - Intermittent land

SHORE LINE

R. L. - mean high water line (solid

red line - fast land)

Low. In - low water line (deshed red line)

LaL. - Light line (solid blue line for

mean high water line on march)

Ik - Dock

Pr - Pier

Se V - Seavall Mind - Bulkheed

Come - Comerche

COMP - COMPLEME

ve - Voeden

Jot - Jotty

dol - Dolphin

pile - pile (give type)

8 — Send

and - and

Hz - Rock or Rocky

Sty - Stony

V - Water

BLC - Binff (height)

DII LD INGS

W - House, barn or bailding

Ch - Church (give mane)

Ot H - Court House (give name)

Bo A - Boot House

P.O. - Post Office (give name)

Roll Sta - Railroad station (give name)

hos - Hospital (give name)

Sch - School (give name)

HISCRILL BOY

? - Sence

FB - Fire Break (maintained)

FEX - Fire Break (abandoned)

Com - Come body

Park - Park (give name)

Por. - Fire Tower

ToTo - Transmission towers (tall steel)

Pala - Power Line

Shoal - Appear. limits by long dashed

line for use by hydrographer

1 15 FIGHT 7/29/41

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-5793

There are no contemporary graphic control or hydrographic surveys within this area.

Previous Topographic Surveys

423 (1:10,000) 1854 572 (1:10,000) 1856 699 (1:20,000) 1858

T-5793 supersedes these surveys for charting purposes within the common area.

Topographic Stations

1

All topographic stations located by the photo radial plot for control of hydrography are permanent and are shown as topographic stations. Form 524 descriptions are filed under T-5793.

Field Inspection

The field inspection along the shoreline is clear and adequate. Inshore the inspection is confined largely to detail visible from the main roads. This field inspection is adequate for interpretation of vegetation details but is somewhat incomplete as regards some of the minor roads and trails, particularly in the N.W. section of the survey. No changes in the detailing of the trails have been made in this office.

Fixed Aids to Navigation

Light: Lat. 29° 07.2' Long. 82° 58.8'

This light is noted on field inspection photo 3856 and appears on chart 179 but was not located by the field party. The light has been added to T-5793 in this office by radial plot.

Comparison with Charts

179 (9-6 **-**40) 180 (4**-**15**-**40)

T-5793 (Air Photo) - 2

T-5793 has not been applied to the above charts at this date. See page 5 of Descriptive Report regarding the one landmark recommended by the field party. The bird rack located in this survey has not been recommended as a landmark; however, it would appear desirable to chart this, since it apparently is quite permanent.

Radial Plot

The radial plot of which T-5793 is a part has not been checked in this office. See pages 1 - 3 of Descriptive Report for a discussion of the plot.

General

Details between Long. 82° 59! and 83° 00! and between Lat. 29° 05! and 29° 11! are to be added to this survey from T-5804 (1:10,000) when the smooth drafting is made.

Except as just noted the Descriptive Report and compilation of map details are complete, and the rough drawing is satisfactory for redrafting in this office.

Reviewed in office by L. V. Evans, July 5, 1941

Inspected by B. G. Jones

Examined and approved:

Technolis Assistant to Chief

Division of Photogrammetry Chief, Surveys Section

Chief, Division of Charts Br

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Chief, Division of Coastal

Surveys

Remarks

Decisions

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Wylly										2
Wilder Creek										3
Hall Creek			3,00		1.7					4
Porpoise Creek										5
Winzy Creek										6
King Creek				1						7
Jacks Creek										8
Tripod Creek										9
Tripod Point										10
West Griffin Crack										11
East Griffin Creek										12
Tarpen Creek										13
Kelly Creek										14
Kelly Creek Point										15
V Deep Creek										16
Mud Creek										17
West Dry Ceek										18
East Dry Coek										19
Dry Creek	B	GN	dece	aion .	as	origi	ally	world.	4	20
Waccasassa Bay								177		21
Waccasassa Reefs	-									22
Big Gap										23
Corrigan Reef										24
Big Stake Gap										25
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Remarks.

Decisions

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	Cedar Keys	÷									1
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