# 5800

See note on Title Sheet

3 Topographic Sta Descriptions ( form 524)
Alod ander T-5803, Florida

FORM 504 Rev. April 1935  DEPARTMENT OF COMMERCE  U. S. COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT Topographic Sheet No. 25003 Typinographie
State FIORIDA
LOCALITY
Forth Key and vicinity
Vest Coast Florida
Photographs tokan Doc 4, 1939
19# 41
CHIEF OF PARTY

U. S. GOVERNMENT PRINTING OFFICE 10222

# 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

Ricercia No. T-5803 \*

REGISTER NO.

T5803

State Florida
General locality West Coast
Locality North Key and vicinity Photos.
Scale 1:10,000 Date of survey December 4 , 19 39
Barty: Vessel Air Photographic Party No. 1
Chief of party <u>Lieut. Kenneth G. Crosby</u> Field Inspected
Surveyed by Lieut. (j.g.) E.L. Jones; H.A. Duffy, Photogrammetric Aid
Inked by Jesse A. Giles .
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated April 3 , 19 40
Remarks:
$\cdot$

# \* REVIEW OF AIR PHOTOGRAPHIC SURVEY T-5803

The area covered by T-5803 (10,000) was also covered by T-5792 (1:20,000) of approximately the same date.

T-5792 is to be published. Since there appears to be little need for duplicating the same area on the larger scale, T-5803 will not be redrafted and will not be published.

The file copy of T-5803 is a reproduction of the original rough drawing for the use of the subsequent hydrography or other needs of the Bureau.

Persons outside of the Bureau requesting map information in this area should be referred to T-5792.

The regular office review is incorporated in the review of T-5792. T-5792 and the descriptive report for T-5792 contain all of the information for charts to be obtained from the air photographic surveys in this area.

Descriptions of recoverable topographic stations are filed under T-5792.

6-9-41.

B. G. Jones

# SUPPL .... LAN SCAVINS

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DETAILING			
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n en		Total	52
		-4 144	

SHART NO. 7-5803

Mumber	: Date	Time	Stage of Tide
3849 5851 3852	December 4,1959 December 4,1959 December 4,1959	11:55 11:58 11:59	\$ .6 \$ .6 \$ .6

Tide from predicted tables fort Cedar Keys, Florida Reference Station: Tampa, Florida

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

#### SCALE

Mean scale of ?	hotographs	*********	**********	1:10,000 : 0,978
Scale of Survey	Sheet	*****		1:10,000

#### STATISTICS

Area (land)		Square statute	miles
Shoreline (more than 200 m. from opposite shore).	21.5	Statute	miles
Shoreline (Creuks)	2.0	Statute	niles
Roads, btreets, trails, and railroads		Statute	miles

#### REFERENCE STATION

Stations	KEY	NORTH	1910
----------	-----	-------	------

Latitude: 29 07: 12.851 (395.6 m.) Longitude: 83 05; 19.142 (517.6 m.)

Datum N.A. 1927 Based on datum difference Lat. -0.081" Long. 40.158" as determined by triangulation observations at triangulation station TANK, 1933, on Oct. 11, (Section 2) 1940.

Florida Plane coordinates y=

The details on T-5803 are of the date of the photographs Dec 4,1939, except the triangulation and topographic stations. Topographic stations were identified and marked by field inspection, May to Sept. 1940.

#### 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 sheet is Florida, West Coast, in the vicinity of North Key which is just west of Cedar Key. The area is composed of islands and many shoals both large and small. The small shoals being oyster bars bare at mean low water. The larger islands have palms, decidnous trees and mangrove. The smaller islands are covered with marsh and mangrove.

#### CONTROL

There are two control stations on the sheet. They are triangulation stations KEY NORTH, 1910 and CEDAR KEYS L.H., 1874. The former station along with triangulation stations HARBOR KEY 3, 1910, and SNAKE KEY 2, 1874, (latter two stations on T-5804) were occupied to determine the datum difference between the old datum and that of N.A. 1927. The top of the municipal water tank at Cedar Key was located and connected to triangulation station TANK, 1933. The resulting datum difference was computed to be Latitude -2.49 m., Longitude +4.26 m. This correction was applied to all triangulation stations not on the 1927 datum in order that they might be used for control in making radial plot. The computations for datum difference will be submitted in a separate report.

No errors were found in the location of the control stations by the photographic plot nor in the plotting of the stations on the field prints.

#### MAIN RADIAL PLOT

A radial plot consisting of 12 templates was run for survey sheet No. T-5803 and T-5804 on October 18, 1940. Templates for all the photographs flown on an approximate scale of 1:10,000 were used although several of the pictures were very badly tilted.

To make full use of the triangulation in the area, a datum difference was applied to all stations on the United States Standard Datum. This correction was determined from a connection made at triangulation station TANK 1933. By using these old stations which had been recovered by the field inspection party, the plot was adequately controlled and it was possible to fix a majority of the templates. All templates were prepared 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 sheets.

The control in the area covered by this plot was plotted on the survey sheet and each position checked. These stations were then transferred to the grid sheets by matching grid lines and adjusting individual grid squares.



Very little, if any, adjusting was necessary however, as the base grids were made on similar material as the survey sheets and approximately at the same time.

The base grids were securely taped to the plotting table and the templates laid and securely taped to the base grids. Excellent results were obtained and it was not necessary to relay the plot although several templates were subsequently relaid to obtain closer agreement at several radial points. Many points were selected which will be subsequently located by the 1:20,000 main plot for purposes of making a direct comparison between the two plots.

Upon completion of laying all the templates, the points determined by the radial plot were transferred to the survey sheet. The survey sheet was adjusted over the grid sheets by adjusting each individual grid square. There was only a very slight amount of adjusting necessary.

It is believed that most of the radial plotted points are within .25 millimeter of their true location. Radial points which were not strongly determined or had a small triangle of error were shown by green circles. In instances where the radial point could not be used as a control point due to lack of a common intersection or small triangle of error, the actual radial lines were transferred to the survey sheet for further investigation by the compiler.

No large or unusual adjustments were necessary in any part of the plot.

Topographic station PAT, 1940 (d.m.) and Hydrographic signal END OF DOCK (unmarked) were not located by the main radial plot but were plotted on T-5792 (1:20,000) by using the individual photograph in the immediate vicinity. These stations were then transferred to this sheet and checked by photographs within the limits of this sheet. The agreement of positions was within a meter.

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

#### INTERPRETATION OF PHOTOGRAPHS

No unusual conditions were found.

#### FIELD INSPECTION

The field inspection was done by Lieut. (j.g.) E. L. Jones, assisted by H. A. Duffy, Photogrammetric Aid. This was accomplished during the months of Eay, June, August and September, 1940. A special report entitled "Field Inspection Report - Horsehoe Point to Anclote Keys, December 27, 1940" has been submitted by Lieut. (j.g.) E. L. Jones for the field work in this vicinity

#### DETAILING

Detailing of this sheet has been done in accordance with current instructions for the project.

Considerable tilt was found in the photographs covering the extreme north-eastern portion of the survey sheet and the projector was used in the detailing of this area.

Areas having too varied vegetation or too small to be labeled to advantage have been smooth drafted.

A bird rack just south of the entrance to NORTHVEST CHANNEL and one just south of entrance to DEADMANS CHANNEL have been located by the radial plot method. Since it was possible to obtain but two radial lines to these structures their position is unchecked. They are shown however as a possible aid to the hydrographer.

#### NON-FLOATING AIDS

NORTH BANK LIGHT NO. 1 was located by the main radial plot with the intersection of only two radial lines. This position being unchecked, no list of nonfloating aids has been cubmitted.

#### JUNCTIONS

This sheet joins T-5804 on the east and T-5792 on the north. Both junctions were satisfactorily made and no adjustments were necessary to obtain an agreement.

#### COMPARISON WITH OTHER SURVEYS

Due to scale differences between this sheet and maps and charts available, accurate comparison could not be made. Major differences in shoreline at the north end of NORTH KEY were noted between the old survey made in 1852 (T-422) and the shoreline shown on this survey sheet.

#### 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.

SEAHORSE REEF, EAST BANK and WEST BANK are geographic names of areas too far south to be shown on this survey sheet.

#### LANDMARKS

No prominent landmarks appear on this sheet other than those already charted.

The charted landmark on SEAHORSE KEY which was formerly CEDAR KEYS LIGHTHOUSE is shown on the charts as "OLD TOWER" and "CEDAR KEYS OLD TOWER". The light structure is about 12 feet in height and rises out of the center of a one story building. The building and structure are in good repair. Only the top of the light structure shows above the trees.

Respectfully submitted,

Draftsman

Forwarded,

Chief of Rarty

### INCAN USED OF PILES IS EXTRON BORS SHOT POD'T TO TARFOI POLITICA, PIDALES APRIL - MCTIBER, 1940 - LIEPE, C. L. JOHES PED ILA. PERFE

Tr.	<u>.</u> غر	-23	
-		14.5	

24 - Piro

- Cypross

Palo - Palmetto

Palm - Pelm

DT - Decimons trees (broad leaf)

Cit - Citrum (erghard)

Mir - Pine, cypress à Dec. trees

(Dennity)

Sot. - Southered

tara - Shinky wooded

her. - Bearily wooded

ber - bere's trees; brush

#### TECHNICE

- Caltiration

QT. - 320.00

70r - full frepical Grace

- Rarch (deshed blue line on

inchero limite)

HW - Morek grace in water (dashed blue

lime on effences limite!

- 51000

- May 20 10

lide - Bedge

# STILLS

- Comal (width)

- Creek

- Ditch (width)

I S - Intermittent Street

III - Probable drainege te

Mag - Bridge or con

CY - Culvert

ler - leres

Y.G.S. - Florida Societie Servey

U.S.B. - U.S. Maximore

1838 - U.S. Molecieni Survey

# BOALS & HAILROADS

- let slage read (paved)

R4 2 - 2nd class read

- Pall

R R - Ball Book

- Overses (state the kind) 0 3

- Undermose (state the kind) V P

- bendoned trail, read, etc.

RR ab. - Hall abondoued (grade only)

#### RC DO

- Fond

Cy F - Cryress fond

- Intermittent Land I P

#### SHORE LINE

R. . L. - mean with water line (solid

red line - fast land)

Lively - low water line (seehed red line)

L,L - Light line (colid bine line for

meen high water lies on march)

虺 - Deck

72 - Plar

Se T - Seamall

- Bulkhood

Som - Comprete

- Vocien 

Jet - Jotty

Leb - Dolphin

pile - pile (give type)

- Sand

- 1944

- Rock er Rockr

Sty - Stony

- Gater ¥

M - Blaff (heleti

### MIT The The S

- Mouse, barn or bailding 13

- Church (give mane)

CA K - Court Mouse (give name)

- Beat House le f

- Post Office (give name) P-0-

La Ste - Kailroad station (give name)

- Hospital (give name) bee

- School (give mane) 408

# MINGSLL STOP

- Samos

73 - Fire Break (maintaless)

THE - Pire Break (abandened)

0em - Come ball?

Perk - Perk (give name)

P.F. - Fire Town?

ToT. - Transmission towers [tall steel)

Jak. - Power Line

Sheel - Appear, limits by long dashed

line for use by hydrographer

# LEGISTI USED ON PLANS IN STREET nons and port to prefer healths, pipala. april - sections, 1940 - link, all cours out has known

Ti	نند

21 - Pine

- Cypross

Palo - Palmetto

Palm - Palm

D 7 - Decideous trees (bread leaf)

Cit - Citrus (erchard)

Mix - Pine, express & Dec. trees

(Dennity)

Soto - Southerné

tave - Shinly wooded

her. - Rearily wooded

bor - borek trees; brush

#### AME IN VALIDE

- Cultivation

- Srage Ćr.

You - fall Tropical Grass

- March (dashed blue line on

inchere limite)

H = - March grace in mater (decied blue

line en offshose limite!

- Supre 

- March 10 10

lide - lieden

# 

- Comi (width)

- Czeek OF.

- Mitch (width)

I S - Intermittent Street

MV - Incheklo drainego manarrayed

My - Mridge or symbol

- Calvert

Lov - Loves

F.G.S. - Florida Cocketic Survey

U.S.R. - U.S. Brainson

USM - V.S. Melogical Servey

#### ROALE & BLACKS

- lot class road (paved)

**24 2** - but class read

92

- Bail Bond 22

9 3 - Overpage (state the kind)

1 P - Underpass (state the kind)

- .. bandoned trail, road, etc.

RR ab. - H.L. abendened (grade only)

#### HOP DO

- Pond

- Cryress Fond

- Intermittent Land ΙP

#### DICORS LINE

A. . L. - mean high water line (solid

red line - fast land)

Lowelle - lev water line (deshed red line)

bol. - Light line (solid blue line for

meen high water line on march)

政 - Dook

21 - Pier

Se T - Seattall 

- Bulkhood Come - Comprete

Co. - Sector

Jet - John

inl - Dolphin

olle - pile (give type)

- Sami - 1944

- Rook or Booky

- Stony 51

- later y

M - Bhill (height)

#### The Thes

- House, bern or bailding 3

- Ohere's (give name)

Ct X - Court Mouse (give name)

le f - Boat House

P.O. - Post Office [give name]

Roll #4s - Hallroad station (give mone)

- Mayital (give name) عمط

Set - School (give mene)

# PIECESTICE BOL

- faces

m - Fire Speak (maintained)

THE - Pire Break (abendened)

Cen - Conchety

Park. - Park (give name)

r.r. - Fire Town?

- Transmission towers [tall steel] ToT.

Polo - Power Line

Shoel - lowers, limits by long deshed

line for use by hydrographer

# review of air from Couplingion no. T- 5805

Chief of Party: Konneth G. Crosby

Complied by: Jesse A. Giles

Project: HoTo - 942

Instructions dated: April 3

1940

lo The charts of this tree have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Para 16a, b, c, d, e, g and i; 26; and 64)

Yes

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

Yes

S. Ground surveys by plane table, sextent, or theodelite have been used to experiment the photographic plot where necessary to obtain complete influenties, and all such surveys are discussed in the descriptive report. (For. 66; and 66 d, e)

Yes

4. The prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charte. (News 20)

None transmitted.

5. Difference between this compilation and centemperary place table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the effice and are discussed in the descriptive reports

Tes

- 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. (Paralle); 46; and 65 c,hoi)
- To Righ water line or marshy and sangrove coast is elear and adequate for chart compilation. (Far. 16s, 43, and 46)

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

- 80 The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is antisfactory. (Pare 36, 37, 38, 39, 40, 41) Yes. The outline of shoal areas has been shown only as an aid to the hydrographer.
- 90 Becoverable objects have been located and described on Form 534 in accordance with circular 80, 1985, circular letter of March 5, 1985, and circular 51, 1986. (Par. 29, 30, and 87)
- 10. A list of landwarks was farmished on Form 557 and instructions in the Director's letter of July 16, 1934, Landwarks for Charts, complicit with. (Par. 164, e) and 60)

  He landwarks other than already charted.
- All bridges shows on the compilation are accompanied by a note whating whether fixed or draw, elearnies, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. [Para 160]

  No bridges within the limits of this sheet.
- 12. Geographic manes are shown on the everlay 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 advisoable. Complete discussion of place names differing from the charte and from the U.S. 6. S. Quadranglas is given in the descriptive separt, together with mesons for recommendations made. (Far. 64, and 66k)

  No overlay. See paragraph entitled "Geographic Names".
- 25. The average his defen of the compliation is H.A. 1927 and the reference station is correctly which.
- 14. Junctions with adjoining compilations have been examined and are in agreement. (Tar: 66)

Yes

Zes.

- 15. The drafting is satisfactory and particular attention has been given the following:
  - lo Standard symbols authorised by the heard of Serveys and hape have been used throughout except as noted in the reports
  - 20 The degrees and minutes of latitude and Longitude are correctly marked. Yes

- 50 All Station points are exactly switted 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 on rough draft.
- 6. All drawing has been reteuched where partially subbed eff. Not necessary to reink.
- Y. Buildings are drawn with elear straight lines and square corners where such is the case on the growing.

(Bar. 34, 35, 36, 37, 36, 39, 40, 41, 48, 46, 46, 46, 46)

16. To additional surveying to resummended at this time.

No additional topographic survey required.

17. Benezitat

18. Emmined and approved:

Franks G. Charles

19. Remake after review in office:

Beviewed in office by:

Remarkand and approveds

Chief State on of Field Records

Chief. Division of Charts

Chief, Souther of Pield Work

Chief, Division of Hydrography