

13010

13010

Form 504	
U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
<i>Type of Survey</i> CHART COMPILATION	
<i>Field No.</i> PH-6606	<i>Office No.</i> T-13010
LOCALITY	
<i>State</i> GEORGIA-FLORIDA	
<i>General locality</i> APALACHICOLA RIVER	
<i>Locality</i> DEAD LAKE	
19 <u>65-68</u>	
CHIEF OF PARTY	
V. Ralph Sobieralski Div. of Photogrammetry, Wash. D. C.	
LIBRARY & ARCHIVES	
DATE _____	

①

DESCRIPTIVE REPORT - DATA RECORD

T - 13010 Chart 644 SC

PROJECT NO. (II):

PH-6606

FIELD OFFICE (III):

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Rockville, Maryland

OFFICER-IN-CHARGE

V. Ralph obieralski

INSTRUCTIONS DATED (II) (III):

July 29, 1965
Amendment 1 August 23, 1965
New Schedule June 15, 1966
Instructions January 10, 1967
Instruction February 2, 1967

METHOD OF COMPILATION (III):

Wild B-8

MANUSCRIPT SCALE (III):

1:40,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:70,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):

VERTICAL DATUM (III):

MEAN SEA LEVEL EXCEPT AS FOLLOWS:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

REFERENCE STATION (III):

LAT.:

LONG.:

ADJUSTED
 UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

X =

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE,
OR (IV) WASHINGTON OFFICE.
WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

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DESCRIPTIVE REPORT - DATA RECORD

T-13010

Chart 644SC

FIELD INSPECTION BY (II):

Edited by William H. Shearouse

DATE:

May 8, 1968

MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):

PROJECTION AND GRIDS RULED BY (IV):

Marine Charts ^{DIVISION} Section

DATE

PROJECTION AND GRIDS CHECKED BY (IV):

Marine Charts ^{DIVISION} Section

DATE

CONTROL PLOTTED BY (III):

Henri Lucas

DATE

Sept. 1967

CONTROL CHECKED BY (III):

John C. Richter

DATE

Sept. 1967

RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):

Irving Saperstein

DATE

STEREOSCOPIC INSTRUMENT COMPILATION (III):

Martha Webber
John C. Richter

PLANIMETRY Martha Webber
John C. Richter

DATE

Sept. 1967

CONTOURS

None

DATE

MANUSCRIPT DELINEATED BY (III):

Martha Webber, John C. Richter, Henri Lucas

DATE

Sept. 1967
Jan, 1968

SCRIBING BY (III):

DATE

PHOTOGRAMMETRIC OFFICE REVIEW BY (III):

J. Battley

DATE

August 1969

REMARKS:

3

FORM C&GS-181c
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD
T-13010 Chart 644 SC

CAMERA (KIND OR SOURCE) (III):

RC-9

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65M 617 thru 622	Oct. 24, 1965	10:10 to 10:15	1:70,000	No tidal Waters
65M 589 thru 593	Oct. 24, 1965	09:15 to 09:20	1:70,000	
* 65L (C) 7092-7185 7188-7204 7207-7302	Oct. 16, 1965	08:25-11:35	1:40,000	

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:			
SUBORDINATE STATION:			
SUBORDINATE STATION:			

REFERENCE STATION:

SUBORDINATE STATION:

SUBORDINATE STATION:

WASHINGTON OFFICE REVIEW BY (IV):

J. P. Battley

DATE:

May 1969

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

IDENTIFIED:

NUMBER OF BM(S) SEARCHED FOR (II):

RECOVERED:

IDENTIFIED:

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

* 1:40,000 Color Photography listed for Entire project.

(4)

Summary to Accompany
Descriptive Reports T-13006 thru T-13012
PH-6606
February 1970

This project consists of seven 1:40,000 scale Chart Compilation Manuscripts compiled to provide the base for new chart 644-SC. The area covered is the Apalachicola River from its mouth at the town of Apalachicola (T-13012), north to its end at the Jim Woodruff Dam. From the dam the Chattahoochee River continues northwest (T-13006) and the Flint River branches northeast (T-13008).

Field inspection of the project area was limited to the premarking of control and was completed in September 1965. The area was flown in October 1965 providing 1:70,000 scale panchromatic bridging photography, 1:40,000 scale compilation photography and 1:15,000 scale color for location of aids.

As a result of higher priority projects, completion of an analytical bridge was not realized until July 1967. Six strips of 1:70,000 scale panchromatic photographs were bridged. Due to the lack of control a block adjustment was used to tie the strips together.

The Washington compilation office completed the B-8 compilation of the seven manuscripts in May 1968. The manuscripts were compiled following the general instructions for compiling topography to chart scale. Except in the area of T-13012, there is no existing chart for comparison and subsequent revision.

Field edit was accomplished from March thru June 1968 and encompassed the location of extensive day beacons, channel markers and lights. In addition the river abounds in piling, dolphins, snags and single piles - most of which were located during field edit. A complete geographic names check was also made during field edit.

The application of field edit data was completed in the Washington compilation office in November 1968. The Marine Chart Division revised their needs at that time and the project was set aside for higher priority work.

T-13012 was reviewed and copy forwarded to Marine Charts to serve as a revision base for Charts 1262, 866 and 865. Forms 567's were listed, scaled and submitted for each sheet.

A Chart Division Manuscript copy of each manuscript was supplied the Marine Chart Division.

Registration manuscript copies will be registered in the Bureau Archives under their respective T-numbers.

Submitted by,

Jeter P. Battley, Jr.
J. P. Battley, Jr.

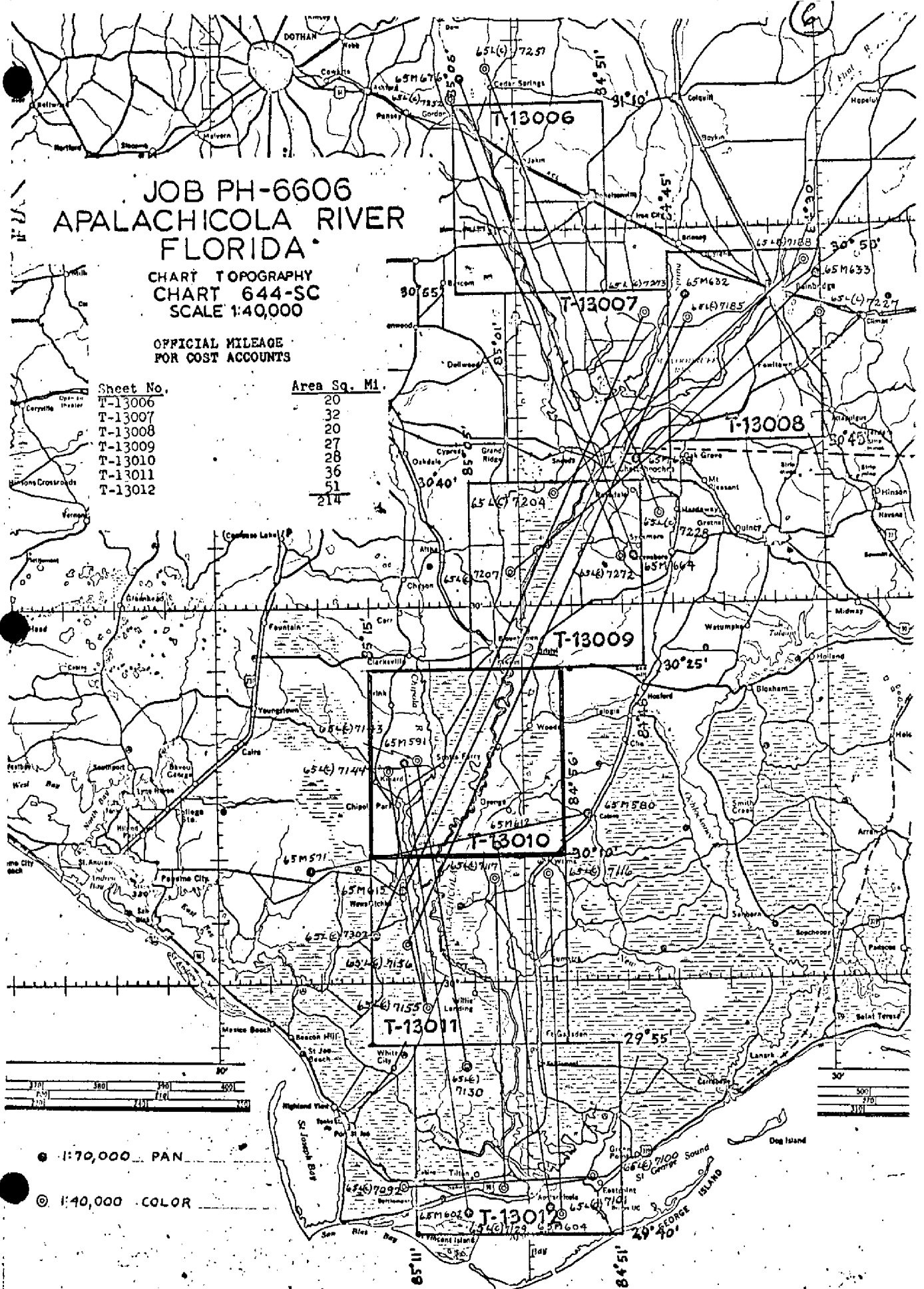
JOB PH-6606 APALACHICOLA RIVER FLORIDA

CHART TOPOGRAPHY
CHART 644-SC
SCALE 1:40,000

OFFICIAL MILEAGE
FOR COST ACCOUNTS

Sheet No.
T-13006
T-13007
T-13008
T-13009
T-13010
T-13011
T-13012

Area Sq. Mi.
20
32
20
27
28
36
51
<u>214</u>



● 1:70,000 PAN

● 1:40,000 COLOR

(7)

PHOTOGRAMMETRIC PLOT REPORT
Job PH-6606
Apalachicola River, Florida

July 14, 1967

21. Area Covered

This report covers the Apalachicola and Chattahoochee Rivers, Florida, and consists of seven (7) 1:40,000 scale T-sheets, T-13006 thru T-13012.

22. Method

Analytic aerotriangulation methods were used to bridge six strips, consisting of 1:70,000 scale panchromatic photography taken with the RC-9 camera. Common tie points were drilled on plates between all strips where applicable.

Because of placement and lack of control, a block adjustment was used to tie together Strips 1, 5, 6 and part of Strip 3.

The attached sketch shows the strips bridged and the placement of triangulation furnished that were used in the adjustment.

Mercator values have been furnished for all bridge points on the IBM readout.

23. Adequacy of Control

All horizontal control was premarked with white panels with the exception of a subpoint for WEWAHITCHKA, EMPIRE SERVICE CO. SILVER TANK, 1934. One USGS station No. 1272 center-line of the public road at the crossing of Apalachicola Northern Railroad was used and held with WILMA FIRE TOWER, 1938. (See USGS Sumatra Quadrangle pamphlet.)

Although horizontal control was sparse, it is believed adequate for 1:40,000 scale charting.

Vertical control needed for the adjustment was taken from USGS quadrangles.

8

25. Photography

The definition and quality of the "M" photography is fair.
The coverage is adequate.

Respectfully submitted,

115

Irving I. Saperstein

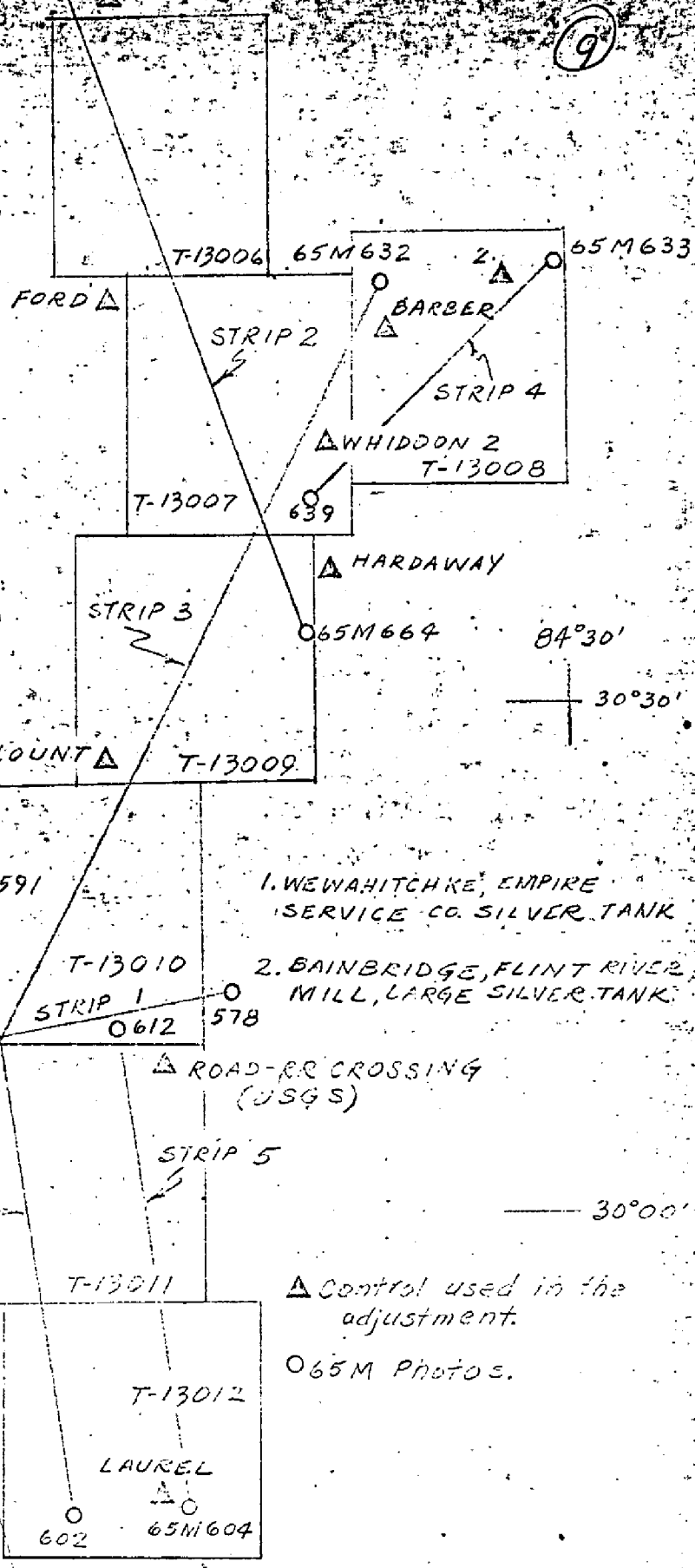
Approved and forwarded,



Henry P. Eichart
Acting Chief, Aerotriangulation Section

61650 CEDAR

(9)



ANALYTIC
 AEROTRIANGULATION
 APALACHICOLA RIVER, FLA.
 PH-6606

June 1967.

- 1. WEWAHITCHKE, EMPIRE SERVICE CO. SILVER TANK
- 2. BAINBRIDGE, FLINT RIVER MILL, LARGE SILVER TANK

△ Control used in the adjustment.
 ○ 65M Photos.

85°00'

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COMPILATION REPORT
PROJECT PH-6606
T-13010
APALACHICOLA, FLORIDA
SEPT. 1967

31. Delineation

Compilation was done on the B-8 Stereo-Plotter at manuscript scale 1:40,000. Color photographs (scale 1:40,000) were also used to assist with delineation. The Marine Chart Division furnished compilation limits of approximately 5 miles wide. Field edit is to be accomplished to provide information for charting aids to navigation etc.

32. Control

See photogrammetric plot report.

33. Supplemental Data

U. S. Army Corps of Engineers Navigation Charts and colored aerial photographs were flown at 1:40,000 and were used for comparison or assistance during compilation.

34. Contours and Drainage

The largest named creeks or rivers that are tributaries of the Apalachicola River and Dead Lake are included on this manuscript.
No Contours.

35. Shoreline and Alongshore Details

Using USCE charts and aerial photograph models, landings along the Apalachicola River were located. Shoreline buildings were located by stereo plotter. Shoreline inspection to be done during field edit for these features. This chart is not within the area of tidal waters.

36. Offshore Details

Offshore details appear in the form of a few shoal lines and cypress in Dead Lake.

37. Landmark and Aids

None were located by office. To be located during field edit.

38. Control for Future Surveys

None

39. Junctions

Junctions were made to the North with T-13009 and to the South with T-13011.

40. Horizontal and Vertical Accuracy

This survey complies with the national standards of accuracy.

41 thru 45.

Inapplicable

46. Comparison with Existing Maps

Comparison was made with the following USGS Quads, Dead Lake,

11

Estiffanulga and Orange, Florida. All are edition of 1945 with contour interval 10 feet.

47. Comparison with Nautical Charts
No Nautical Charts in this area.

Approved by

K. N. Maki

Kal. N. Maki
Chief, Compilation Section

Submitted by

Henry Lucas
Henry Lucas

FIELD EDIT REPORT

JOB PH-6606

MAPS T-13009 and T-13010

In accordance with Instructions--FIELD EDIT--Job PH-6606; Chart Topography, Chart 644-SC; Apalachicola River, Alabama, Florida, and Georgia (C1413).

51. METHODS

Visual comparison of shoreline delineation of the river and principle tributaries was made. Where corrections or addition of shoreline structures are needed, these have been indicated on the photographs, reference to the photo number being recorded on the Field Edit Sheet.

Roads and streets were ridden to verify existence as compiled. Those in map T-13010 were classified before oral instructions were received that classification was no longer required. Highway numbers have been recorded on the Field Edit Sheet and/or photograph from posted highway signs. Official State of Florida County Transportation Maps are also furnished as part of project data.

Isolated buildings and others of chart landmark value have been circled on the photographs. Many interior buildings were compiled. These were not inspected because they are not considered applicable to the small-craft chart.

Some concern is felt over the omission of a number of creeks flowing into or out of the main river. It is respectfully suggested that further effort be made to add some of these. Without actually following the stream through the swamp, some have been indicated on the photographs. These are evident by the notes that will be found on the photos. Also, it may be helpful to refer to the U. S. Geological quadrangle maps for guidance. I believe these maps are reasonably reliable for the streams. It appears that since the chart is largely for small-craft operators--sportsmen and the like--the addition of some of these creeks would make it more useful.

There are no landmarks for charts in map T-13010. Three were found in T-13009. They were indicated on the Field Edit

Sheet, identified on the photographs and Form 567 executed.

Nonfloating Aids are confined to ranges. These range daybeacons are rectangular boards approximately 3' x 6' in size, mounted on 4" x 4" posts and are international orange in color with a 8" white reflecting stripe down the middle. These are placed by the U. S. Coast Guard at spots designated by the Corps of Engineers and are for the purpose of navigating short reaches of the river channel. In no case was the distance between front and rear markers found to be more than 125 feet. Practically all are less than 100 feet apart, some being under 50. At the scale of 1:40,000, it was considered impractical to obtain a point-on-range as it would be meaningless. Therefore, points on range were omitted.

It will be noted that these daybeacons are shown in the 1967 Light List as "white square slatted daymark on post", and "10 yards" from front to rear daybeacon in each instance. The Coast Guard informs us that these all have been replaced in the past 1 to 3 years.

None of the range daybeacons could be seen on the photographs or transparencies, nor were they located at places where direct marking could be done (such as on a sharp, well-defined point of land) with desired accuracy. The Coast Guard has geographic positions but in testing them they appear to be less accurate than we would like. The Corps of Engineers do not have positions on them. They do have a third-order traverse along the river banks and in the cases of Ranges "F", "H", "L", "Q", and "T" their stations were used to tie-in the range daybeacons. In addition to angles and distances submitted on appropriate forms, coordinates as furnished by the Corps of Engineers are also transmitted so that the positions of the markers may be computed or graphically plotted.

Other ranges had to be located photogrammetrically. The 1:40,000 scale color photographs were used and images such as overhanging trees, tiny beaches, etc., identified and used in theodolite fixes. A set-up was made at or near one of the daybeacons and a "round" of angles observed, distances being measured to one or both markers as the set-up required. These were in turn, laid out graphically on sheets of paper, fixed under the cronaflex print of the map manuscript and the positions of the range markers thus obtained, pricked and labelled. None of these have been scaled but a single guidance copy of Form 567 is submitted.

Range "P" had only a single marker, believed to be Range Front. Ranges "N", "NN" and "U" are shown in the 1967 Light List, but do not exist. Coast Guard authorities were questioned regarding these omissions. Their answer: "we are waiting for the Corps of Engineers to tell us where to put them".

In addition to the cronaflex and Field Edit Sheets, field edit information will be found on photos: 65L7140, 7143, 7146, 7147, 7148, 7161, 7162, 7163, 7164, 7165, 7166, 7167, 7168, 7169, 7172, 7173, 7174, 7176, 7177, 7210, 7211, 7212, 7284, 7285, 7286, 7287, 7288, 7289, 7290, 7291, 7292, 7294, 7295, 7296, 7297, and 7298.

Violet ink was used for all field edit notes.

52. ADEQUACY OF COMPILATION

After application of field edit corrections, additions and deletions, compilation will be adequate.

53. MAP ACCURACY

No tests were made.

54. RECOMMENDATIONS

None offered.

55. EXAMINATION OF PROOF COPY

Not required.

GEOGRAPHIC NAMES

This is the subject of a separate report.

Submitted May 8, 1968

William H. Shearouse

William H. Shearouse
Chief, Photo Party 60

Review Report
T-13006 thru T-13011
Chart Compilation Manuscripts

61. General Statement

See summary in preface.

62. Comparison with Registered Topographic Surveys

None

63. Comparison with Maps of Other Agencies

Comparison was made with the latest USGS quadrangle of the areas. See item 46 of the compilation report for a listing of these quads by individual T-sheets. A Corps of Engineers booklet comprised of photo-mosaics compiled in April 1966 was available throughout the project area for comparison. This was helpful in spotting the approximate location of range markers for use by field edit.

64. Comparison with Contemporary Hydrographic Surveys

None - no existing surveys in the area.

65. Comparison with Nautical Charts

None - no charts published for this area.

66. Adequacy of Results and Future Surveys

These surveys complied with the project instructions in every respect and meet the National Standards of Map Accuracy. Utilizing the latest analytic bridging methods, and following this with a B-8 stereoplotter compilation supplemented with a most thorough field edit, these manuscripts will provide a base for an excellent chart and any subsequent revision needs.

67. Geographic Names

A thorough geographic names investigation was conducted for this project. A listing of approved geographic names is included in each report.

Approved by,

Charles L. Lamm
Chief, Photogrammetric Br.

Reviewed by,

Setzer P. Battley Jr.
Cartographer

R. H. Houtator
Chief, Photogrammetry Div.

Chief, Marine Charts Div.

(17)

Final RAY

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6606 (Apalachicola River, Fla.)

T-13010

- | | |
|---|---|
| ✓ Abe Springs - <i>outside limits</i> | ✓ Buzzard Lake |
| ✓ Acorn Lake | ✓ Camp Branch |
| ✓ Apalachicola National Forest | ✓ Carter Landing |
| ✓ Apalachicola River | ✓ Chesser Landing |
| ✓ Baker Branch | ✓ Chipola Park |
| ✓ Beazly Hammock | ✓ Chipol a River - <i>J.M.P. ajw</i> |
| ✓ Big Gully Creek | ✓ Coconut Bluff |
| ✓ Bee Tree Slough | ✓ Coon Creek |
| ✓ Blazed Pine Landing | ✓ Coon Landing |
| ✓ Boggy Branch | ✓ County Line Creek |
| ✓ Brown Lake | ✓ Crooked Creek |
| ✓ Brown Lake Creek | ✓ Cypress Creek |
| ✓ Bullhead Bay | ✓ Dead Lake |
| ✓ Baker Slough (see report) <i>J.M.P. ajw</i> | ✓ Dead River |
| ✓ Fannin Island " " <i>J.M.P. ajw</i> | ✓ Deason Branch |
| ✓ Hicks Creek " " <i>J.M.P. ajw</i> | |

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6606 (Apalachicola River, Fla.)
T-13010

- Devils Branch - *beyond limits*
- Devils Swamp - *beyond limits*
- ✓ Dicks Point
- ✓ Dog Slough
- ✓ Dunham Branch
- ✓ Equaloxic Creek
- ✓ Estiffanulga
- ✓ Estiffanulga Pond
- ✓ Fish Lake
- ~~Fish Pond~~ (changed to Estiffanulga Pond) *g.w.f. a/w*
- ✓ Florida River
- ~~Flowers Still~~ *delete (see report)*
- ✓ Flat Creek *(see report) g.w.f. a/w*
- Franklin Juniper Swamp *beyond limits*
- Franklin Pond - *beyond limits*
- Frink - *beyond limits*
- ✓ Frozen Bluff
- ✓ Greenback Lake
- ✓ Gregory Mill Creek
- ✓ Gunn Landing (2)
- ✓ Hageman Cut
- ✓ Honey Pond
- ✓ Hughes Creek (creek)
- ✓ Hughes Creek (town)
- ✓ Iamonia Lake
- Iola Lake - (T-13011)
- Johnson Juniper Swamp *beyond limits*
- Juniper Creek - *beyond limits*

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6606 (Apalachicola River, Fla.)
T-13010

- ✓ Juniper Swamp
- Kennedy Creek - *beyond limits*
- ✓ Kinard
- ~~Lake~~ Lake Mystic - *J.W.F. a/w*
- ✓ Landy Lake
- ✓ Little Gully Creek
- ✓ Little Honey Pond
- Long Pond - *beyond limits*
- ✓ Long Ridge
- ✓ Lots Mill Creek
- ✓ Mary Branch
- ✓ Mary Slough
- ✓ McDougal Lake - *J.W.F. a/w*
- ✓ Middle Slough
- ✓ Miller Lake
- ✓ Mud Swamp

- ✓ Muscogee Lake
- ✓ Muscogee Landing
- ✓ Muscogee Reach
- ✓ Mosquito Landing
- ✓ Old River
- Orange *outside limits*
- ✓ Outside Lake - *not compiled*
- Patsy Branch *not compiled*
- ✓ Pitts Mill Creek
- ✓ Pitts Mill Pond
- ✓ Point Polaway
- ✓ Porter Lake
- ~~✓ Point Polaway (see report)~~
- ✓ Polaway Cutoff (see report)
- J.W.F. a/w*

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6606 (Apalachicola River, Fla.)
T-13010

- ✓ Porter Landing
- ✓ Porter Landing Road
- ✓ Porter Reach
- ✓ Power Landing
- ✓ Queen City Lake
- ✓ Queen City Point
- ✓ Raccoon Slough
- ✓ Red Bug Island
- ✓ Red Hill
- ✓ Ricko Bluff
- ✓ Rudy Slough
- ✓ Sand Slough
- ✓ River Swamp (see report) *gwd. ajw*

- ✓ Scotts Ferry
- ✓ Sheppard Lake *not visible on photography*
- ✓ Shingle Landing (2)
- ✓ Shuler Branch
- ✓ Smith Landing
- ✓ Susan Scott Branch
- ✓ Telogia Creek
- ✓ Wind Lake
- ✓ Woods Branch

Approved by:
A. Joseph Wraight
A. Joseph Wraight
Chief Geographer

Prepared by:
Frank W. Pickett
Frank W. Pickett
Cartographic Technician

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODESIC SURVEY

NONFLOATING AIDS OR LANDING MARKS FOR CHARTS

TO BE CHARTED
~~MARKS REMOVED~~
~~MARKS DELETED~~

STRIKE OUT TWO

Chattahoochee, Fla. April 25, 1968

I recommend that the following objects which have ~~MARKS REMOVED~~ been inspected from seaward to determine their value as landmarks be charted on ~~46146, 46147, 46148~~ the charts indicated.

The positions given have been checked after listing by Dennis F. Dearborn

T-13010

William H. Shearouse

William H. Shearouse

Chief of Party

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	CHARTS AFFECTED
				LATITUDE*		LONGITUDE*				
				D. M. METERS	"	D. M. METERS	"			
	FLORIDA	APALACHICOLA RIVER								
All range daybeacons are orange rectangle daymarks with verticle white center reflective stripe mounted on a 4"x4" post.										
Daybn		Range " B " Front	30 17.1	08.0	85 03.2	10.4	N.A. - Photo Plot T-13010	4/2/68	644-SC	
Daybn		Range " B " Rear	30 17.1	27.7	85 03.2	27.7	"	"	"	"
Daybn		Range " A " Front	30 18.2	15.4	85 03.5	30.8	"	"	"	"
Daybn		Range " A " Rear	30 18.2	15.0	85 03.5	30.8	"	"	"	"
Daybn		Range " C " Front	30 26.1	02.1	85 01.1	04.7	T-13009	4/9/68	"	"
Daybn		Range " C " Rear	30 26.1	02.9	85 01.1	04.6	"	"	"	"
Daybn		Range " E " Front	30 26.2	02.8	85 00.7	05.2	"	"	"	"
Daybn		Range " E " Rear	30 26.2	02.9	85 00.7	05.1	"	"	"	"
Daybn		Range " G " Front	30 26.5	02.9	84 59.3	05.0	"	"	"	"
Daybn		Range " G " Rear	30 26.5	02.9	84 59.3	05.0	"	"	"	"

This form shall be prepared in accordance with Hydrographic Manual, Publication 20, 2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.

* TABULATE SECONDS AND METERS

USCOMM-DC 16234-P81

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