U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey CHART COMPILATION

Field No. PH-6606 Office No. I-13006

LOCALITY

State GEORGIA-ALABAMA

General locality APALACHICOLA RIVER

Locality CHATTAHOOCHEE RIVER

19.65-1968

CHIEF OF PARTY
V. Ralph Sobieralski
Division of Photogrammetry, Wash. D. C.

LIBRARY & ARCHIVES

USCOLAN-DC 5087

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U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

	DESCRIPTIVE RE	T - 13006		SC
		1 - (.13000	————	
OJECT NO. (II):				
PH-6606				
FIELD OFFICE (II):			CHIEF OF PARTY	
OTOGRAMMETRIC OFFICE (III)			OFFICER-IN-CHAR	GE
Rockville, Maryland			V. Ralp	_{oh} Sobieralski
		<u> </u>		
New Schedule Instructions	August 23,1965 June 15, 1966 January 10, 1967 February 2, 1967			
ETHOD OF COMPILATION (III): W NUSCRIPT SCALE (III):	ild B-8	STEREOSC	OPIC PLOTTING INS	TRUMENT SCALE (III):
1:40,000		1:70,000		
DATE RECEIVED IN WASHINGTON OFFICE (IV):		DATE REPORTED TO NAUTICAL CHART BRANCH (IV);		
IN LE MECELAED IN MUSIUMALA				
TATE RECEIVED IN MASHIMOTO				
<u> </u>		DATE:		DATE REGISTERED (IV):
<u> </u>		DATE:		DATE REGISTERED (IV):
PPLIED TO CHART NO.		DATE:	VERTICAL DATE	
PPLIED TO CHART NO.		DATE:	MEAN SEA LEVE	M (III): L EXCEPT AS FOLLOWS:
PPLIED TO CHART NO.		DATE:	MEAN SEA LEVE	M (III): L EXCEPT AS FOLLOWS: as (25) refer to mean high water
PPLIED TO CHART NO.		DATE:	MEAN SEA LEVE Elevations shown Elevations shown	IM (III): L EXCEPT AS FOLLOWS: as (25) refer to mean high water as (5) refer to sounding datum
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REFERENCE STATION (III):	LONG.:	DATE:	MEAN SEA LEVE Elevations shown Elevations shown	IM (III): L EXCEPT AS FOLLOWS: as (25) refer to mean high water as (5) refer to sounding datum ter or mean lower low water
REFERENCE STATION (III):	LON G.:	DATE:	MEAN SEA LEVE Elevations shown Elevations shown i.e., mean low wa	M (III): L EXCEPT AS FOLLOWS: as (25) refer to mean high water as (5) refer to sounding datum ter or mean lower low water
GEOGRAPHIC DATUM (III):	LONG.:	DATE:	MEAN SEA LEVE Elevations shown i.e., mean low wa ADJUSTED UNADJUSTE	M (III): L EXCEPT AS FOLLOWS: as (25) refer to mean high water as (5) refer to sounding datum ter or mean lower low water



FORM C&GS-181b

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

DESCRIPTIVE REPORT - DATA RECORD

Chart 644 SC T-13006

		DATE:	
Edit William H. Sh	June 29,1968		
MEAN HIGH WATER LOCATION (III) (STATE DATE	AND METHOD OF LOCATION):		
No	Tidal Water		
	.1002		
PROJECTION AND GRIDS RULED BY (IV):	ne Charts Section	DATE	
MGI 2	Division		
PROJECTION AND GRIDS CHECKED BY (IV):		DATE	
Mari	ine Charts Section		
CONTROL PLOTTED BY (III):		DATE.	
Henri	Lucas	Sept. 1967	
CONTROL CHECKED BY (III):		DATE	
John	Richter	Sept. 1967	
RADIAL PLOT OR STEREOSCOPIC CONTROL EXT	ENSION BY (III):	DATE	
Irvir	ng Saperstein	July 1967	
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE COLL 1007	
Hami Iwasa	Henri Lucas	Sept. 1967	
Henri Lucas	CONTOURS	DATE	
	None		
MANUSCRIPT DELINEATED BY (III):		DATE	
Henri Lucas		Sept. 1967	
SCRIBING BY (III):		DATE	
		DATE	
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE	
J. Batt	ley	May 1969	
REMARKS:			



FORM C&GS-181c (3-66) U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

Chart 644 SC

T-13006

CAMERA (KIND OR SOURCE) (III):

RC-9

PHOTOGRAPHS (III)					
NUMBER	DATE	TIME	SCALE	STAGE OF TIDE	
M671 to 676	Oct. 24, 1965	11.30	1:70,000	Not Tidal ^W ater	
*65_L (C) 7092 thru 7185 7188_thru 7204 7207 thru 7302	Oct. 16, 1965	08:25 thru 11:35	1:40,000		
	* · · - ·				
•					
ر المان					

TIDE (III)

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE	
FERENCE STATION:				:	
SUBORDINATE STATION:					
SUBORDINATE STATION:			_		
washington office review by (IV): J. P. Battley		DATE:	DATE: Hay 1969		
PROOF EDIT BY (IV):		DATE:	DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):		IDENTIFIE	IDENTIFIED:		
NUMBER OF BM(S) SEARCHED FOR (II):	RECOVERED:	IDENTIFIE	IDENTIFIED		

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

* 1:40,000 color photographs listed for complete project. Photographs used for field edit (additional drainage, Navigational aids, landmarks, Roads, names etc.) were October 16, 65 L 7246, 7247
7252 to 7256

7258, 7259



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.



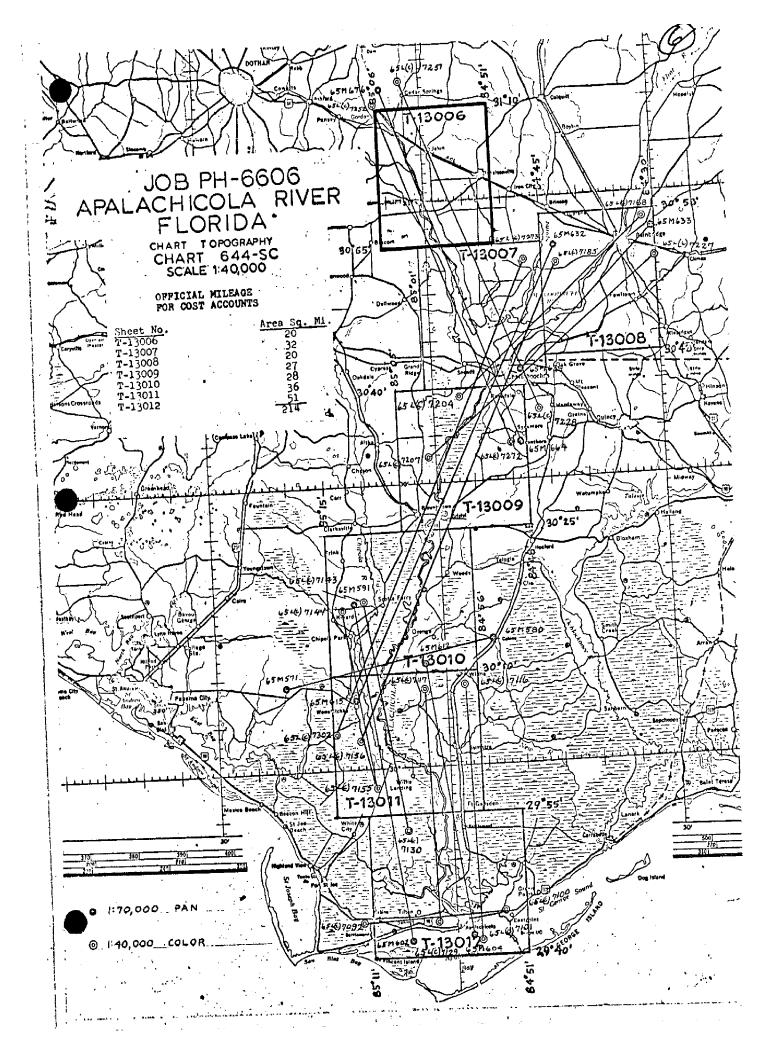
T-13012 was reviewed and copy forwarded to Marine Charts to serve as a revision base for Charts 1262, 866 and 865. Forms 567's were listed, scaled and submitted for each sheet.

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.



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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;

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 USOS station No. 1272 center line of the public road at the crossing of Apalachicola Northern Railroad was used and held with WIMA FIRE TOWER, 1938. (See USOS Sumatra Quadrangle pamphlets)

Wilthough horizontal control was sparsed it is believed radequate for 1:40,000 acale charting.

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

25. Photography

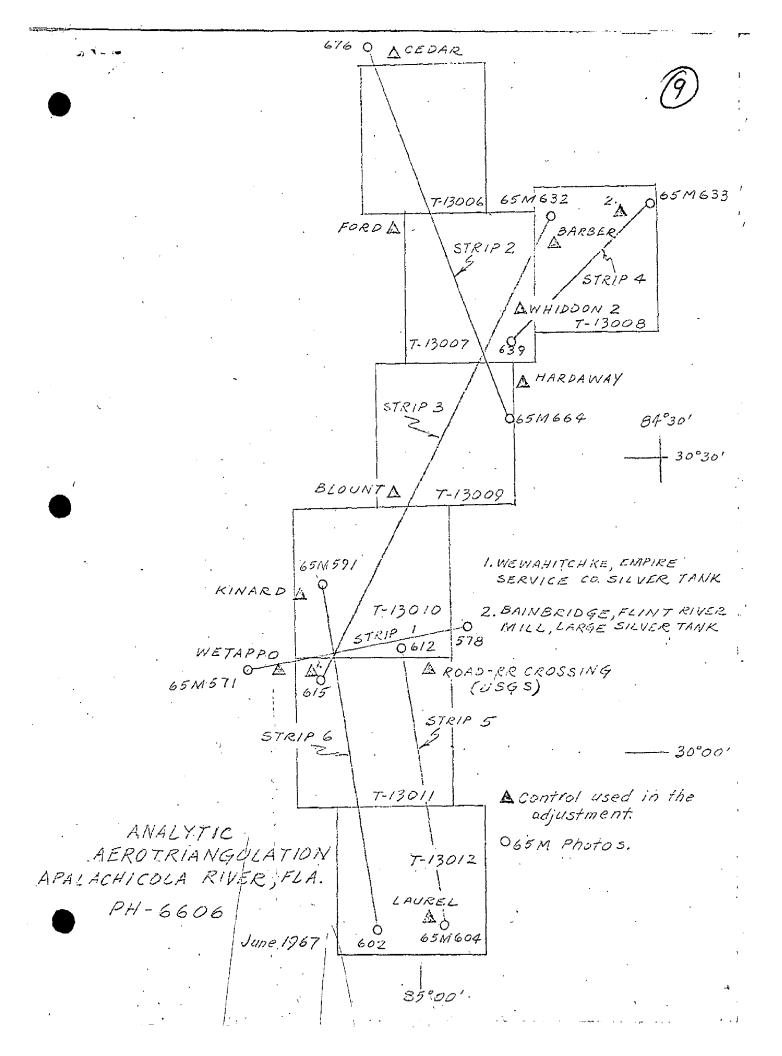
The definition and quality of the "M" photography is fair. The coverage is adequate.

Respectfully submitted,

Irving I. Saperstein

Approved and forwarded,

Henry P. Eichert Acting Chief, Aerotriangulation Section



COMPILATION REPORT PROJECT PH-6606 T-13006 APALACHICOLA-FLORIDA SEPT# 1967

31. Delineation

Compilation was done on the B-8 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, approximately 5 miles wide.

32. Control

See photogrammetric plot report.

33. Supplemental Data

Color aerial photographs were flown at 1:40,000 for comparison or assistance during compilation. Also US Army Engineers Navigation Charts were used for purpose mentioned above.

34. Contours and Drainage

The largest named creeks that are tributaries of the Chattahoochee River, ponds and swamps of importance are included on the map manuscript. No contours.

35. Shoreline and Alongshore Details

No tidal waters in this area. From aerial photographsmodels there was no evidence of wharves, piers, retaining walls etc. Except for a few buildings and what appears to be docks or landings.

36. Offshore Details

Inapplicable -

37. Landmarks and Aids

Landmarks and aids located during field-edit, transferred to the manuscript and listed on form 567.

38. Control for Future Surveys

None

39. Junctions

One junction made with T-13007 (644SC) south of T-13006(644SC).

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 maps, NH 16-3, AMS series.



V501 Dothan, Ala., Ga., Fla., Scale 1:25,000 DTD. 6-55. U.S. Army Engineers Navigation Charts, Ala., Fla., Ga. DTD 4-66. USGS Quadrangles Bascom, Fla., Ga. Scale 1:24,000 DTD 1953-1952 and Steam Mill, Ga., Fla. DTD 1954-55.

47. Comparison with Nautical Charts

No Nautical Charts in this area.

Approved by:

K. N. Maki

Chief of Compilation Section

Submitted by:

Henri Lucas Cartographer

FIELD EDIT REPORT

JOB PH-6606

MAPS T-13006, T-13007 and T-13008

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 was made at close range. Where changes, additions, etc. are needed notes are recorded on the photographs, the photo numbers being shown on the field edit sheet.

There is a short section of the Apalachicola River on Map T-13007 in which three river navigation ranges exist. These are the only nonfloating Coast Guard maintained aids in these maps. Form 567 is submitted. For a detailed discussion of the location of the many ranges to the south on the Apalachicola river refer to Field Edit Report for Maps T-13009 and T-13010.

Coast Guard maintained buoys mark the main channels of Lake Seminole and the Flint and Chattahoochee Rivers. Other aids to navigation in Lake Seminole are shown as "Channel Markers" only. They are maintained by the Corps of Engineers and are not shown in the Light List nor has Form 567 been executed. The channel markers range from large stakes to 12 inch piling. Some have pointers on them but the majority do not. They are important because without them a boat operator would be in difficulty in some areas. Considerable effort was made to field locate and position them on the cronaflex, all being shown with a circle approximately 0.6 mm in size. Methods of location were: (1) sextant fixes, (2) theodolite angle and distance, and (3) direct pricking where the marker is located in a constricted area, a point of land or in the mouth of a creek where direct marking was considered of reasonable accuracy.

In addition to commercial traffic, Lake Seminole has been

developed by the Corps of Engineers as a recreational area. There are many landings, picnic sites and camping areas. At each there is a small-boat ramp which has been indicated on a photograph and listed on thefield edit sheet. The Engineers have assigned names to these landings and they have been shown on an ozalid print labelled Field Edit Sheet No. 2.

When the lake was formed by the dam that backed up the waters of the Chattahoochee and Flint rivers, which converge at the Jim Woodruff Lock and Dam, many square miles of low, swampy area were inundated, causing the cypress and other swamp-type trees to die. There are now vast areas of these, on down to single trees and snags. The compiler designated most of these as "Cypress" or "Scattered Cypress". They should be relabelled "Dead trees, snags and stumps" unless otherwise noted on the field edit sheets. Most of this discussion refers to Map T-13007 which Field Edit Sheet has many notes regarding the situation. Special effort should be made to show these objects by delimiting lines and label or by symbol. Most of them have been indicated on the photographs. (It would appear that they should be quite clear on the transparencies.) It is also suggested that the note "Caution should be used when navigating outside the marked channels as there are areas of submerged snags and stumps throughout the lake", or a similar appropriate one be shown on the chart.

The Corps of Engineers has cut a number of channels through the thickest of these foul areas. Most of them are quite clear to the mariner and he is aided by pointers attached to trees. Theapproximate centerlines have been sketched on the photos., reference being made on the field edit sheet.

All main roads and highways were ridden to verify existence. Deletion of certain farm and woods roads not considered worthy of mapping has been recommended by X'ing off on the field edit sheet and/or photographs. Highway numbers have, in most cases, been entered on the field edit sheet. However, county road maps are submitted as an aid in this matter as are city maps for aid in delineation of streets.

Isolated buildings and others considered of chart landmark value have been circled on the photographs. The numerous interior buildings that were compiled were not edited.

Landmarks for charts are reported on Form 567. Their approximate position is indicated on the field edit sheets with the photo number on which they are identified being listed.

Violet ink was used for notes except for one crowded area on T-13007 cronaflex where red and green were used for clarification.



In addition to the cronaflex and field edit sheets, field edit information will be found on photographs as follows:

Map T-13006: 65L7247, 7252 thru 7256, 7258 thru 7260.

Map T-13007: 65L7178 thru 7180, 7182 thru 7184, 7198, 7199, 7201, 7202, 7233 thru 7238, 7261 thru 7268, 7279, 7280.

Map T-13008: 65L7190 thru 7194, 7196, 7197, 7219 thru 7224.

52. ADEQUACY OF COMPILATION

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

53. MAP ACCURACY

No tests were made. Sextant fixes were made using map details as angle objects and no difficulty was encountered, indicating good accuracy of map details.

54. RECOMMENDATIONS

None offered.

55. EXAMINATION OF PROOF COPY

It is suggested that a proof copy be sent to the Reservoir Manager, Corps of Engineers, U. S. Army, Chattahoochee, Fla. 32324, for examination. This suggestion is made in light of the fact that changes are continuously being made along the lake shore. Especially would this be appropriate if there is a considerable time lapse before publication.

GEOGRAPHIC NAMES

This is the subject of a separate report.

56. STATE BOUNDARIES

An attempt to obtain the legal description of the GEORGIA/FLORIDA and ABABAMA/FLORIDA boundaries was made. That information as furnished by authorities in Tallahassee does not appear to be very helpful. Mr. Jon Beasley, of the State Road Photogrammetry Department states that there are no monuments marking the boundaries in this area, to his knowledge. The Legal Description is included as a part of this report. Neither Alabama nor Georgia State authorities were contacted.



Photographs show the accepted lines fairly well. The GEORGIA/FLORIDA line has been drawn in its approximate position on photograph 65L7180. The Corps of Engineers have monumented points on this line near Lake Seminole. Positions were furnished and are a part of this report.

The ALABAMA/FLORIDA line has been drawn in its approximate position on photograph 65L7258. There is an east/west road that is the accepted State line, that has been projected through a point on a north/south highway and on through a poorly visible, very old surveyed line on the photograph, to the river. The accuracy of this line will be stregthened when triangulation station IRWIN is plotted, as this station falls on or very near the State line. (See Field Edit Sheet T-13006)

Submitted 6/29/68

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 spoting 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,

Reviewed by,

Chief, Photogrammetric Br. 100

Cartographer

Chief, Photogrammetry Div.

Chief, Marine Charts Div.



GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6606 (Georgia - Florida border area) T-13006

~ Alabama Brunson Cometery - Not compiled W Bryans Creek -€ Cedar Pond ← Chattahoochee River Chattahoochee State Park Cow Pond 4 Danley Cemetery - Not compiled
Dickenson Cemetery - Not compiled
Dry Creek - Not compiled
Early County - Not compiled
Fishpond Drain - Beyond limits
Florida Florida -⊌Georgia -Gilbert Lake - Beyond limits y Gordon ← Griselda School - Not compiled Hammock Springs -Hammock Springs Church-Not Compiled
THerman Talmadge Bridge /Hornsville / Hornsville

Howard Mill - Not Compiled

Firwin Mill Greek
Alaga Angel Geo. Names Report (Field) Grosby ANN - See Field Report

Jackson County - Not Compiled Jakin ~ Kilarney - Beyond limits Kirkland Creek -Kings School - Not Compiled Lewis Pond - Beyond limits Long Pond -Macedonia Church-Not Compiled McArthur Pond-Beyond limits Mt. Olive Church- " Navy Yard Landing -Neals Landing -Miller County - Not Compiled Riverturn 4 Riverturn Church-Not Compiled Seaboard Coast Line Shiloh Church-Not Compiled Seminole County-" State 271 (River Road) Steam Mill -St. Marys Church-Not Compiled St. Johns School - " Trinity Church - Not Compiled gruschattahoochee Industrial R.R. See Field Edit

Approved by:

A Joseph Wraight Chief Geographer Prepared by:

Frank W. Pickett (Lyaji)

Cartographic Technician

C&GS FORM 567

U.S. DEPARTMENT OF COMMERCE COAST AND GEODET SURVEY

MOMBLOATHINGARIDS OR LANDMARKS FOR CHARTS

MOCREADELINES STRIKE OUT TWO TO BE CHARTED

Chattahoochee, Fla.

June 20, 19 68

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

The positions given have been checked after listing by Dennis E, Dearborn

William H.

APPECTED 95-179 Shearower Chief of Party. CHARTS = = = 2 = = 6/17/68 6/12/68 William H, Shearouse 89/11/9 89/91/9 6/13/68 LOCATION 89/91/9 Photo Plot hoto Plot -13008 LOCATION Photo F -13006 T-1300 = = = = DATUM 1927 = 56.2 706.5 533.8 D. P. METERS 817.6 30,124 30.726 5,548 31,752 1166.8 801.6 413,9 84 45.8 1189.3 43.6 LONGITUDE # 50.5 1256,585,057 30 42.6 1036.4 84, 52.5 03, POSITION blocked anea 1339.584 1561.3 84 D.M. METERS 383,2 30 42.5 904.3 252,2 50.6 860.3 1420.7 29.367 LATITUDE* 31 08 37 09 -30 53.8 30 52.2 30 42.8 30 42.5 30 54.7 30 40.1 30 12 8 BIGNAL 13006 within red 13 RANIO Skeleton steel htm 200 (290) ht= 101 (193) < ht= 104 (200) (ELEV) ht= 120 (230) OG TANK OL (ELEV) ht= 131 (225) brick, ht= 151 (240) (ELEV) ht= 135 (235) brick, htm 125 (225) ht= 160 (275) (ELEV) ht= 110 (312). (ELEV) html63 (393) DESCRIPTION GEORGIA - FLORIDA (RLEV) (FLEV) (FLEV) 1 OS TANK CE CHARTING 15 STACK 6 STACK BTATE 17 TANK NA TANK 18 TANK 19 TAIIK 20 TANK 21 TANK

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 The data should be landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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-P61