9904

9004

Diag. Cht. Nos. 1243-2 & 1244.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-82 Office No. T-9904

LOCALITY

State Florida

General locality Matanzas River

Locality St. Augustine

1952-57

CHIEF OF PARTY
P. Taylor, Chief of Field Party
E. H. Kirsch, Balto. Photo. Office
W. F. Deane,

LIBRARY & ARCHIVES

DATE ~ October 1962

USCOMM-DC 5087

T - 9904

Ph-82(51) Project No. (11): Quadrangle Name (1V):

Brunswick, Georgia Field Office (II):

Paul Taylor Chief of Party:

Photogrammetric Office (III):Baltimore, Md.

Officer-in-Charge: E. H. Kirsch

W. F. Deane

Instructions dated (II) (III):

29 December 1951

Copy filed in Division of Photogrammetry (IV)

15 February 1952 (Supplement I)

28 February 1952 (Supplement I) 14 March 1952 (Supplement II)

28 April 1952 (Supplement III)

Method of Compilation (III): Graphic

1:20,000 Manuscript Scale (III):

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III):

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 5/15/57

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): KSL

Mean sea level except as follows:

Elevations shown as (25) refer to mean high water Elevations shown as $(\underline{5})$ refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III): VILANO, 1933

Lat.: 29° 54° 59.136° (1820.9m) Long.: 81° 17° 32.258" (865.3m)

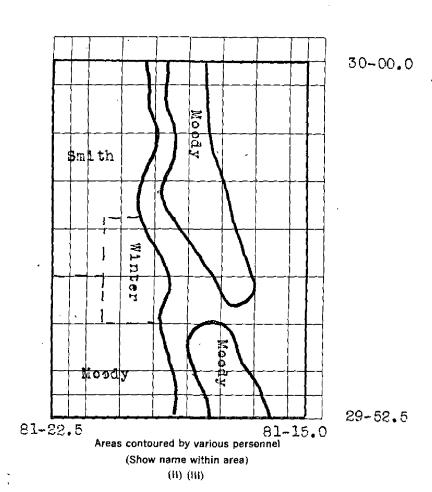
Adjusted

Plane Coordinates (IV):

State: Florida

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.



DATA RECORD

Field Inspection by (II): Joseph K. Wilson, Cartographer

Martin C. Moody, Cartographic Survey Aid

May, 1953 Date:

Shoreline Inspection by: H.R. Spies

Dec., 1952

John R. Smith, Carto. Surv. Aid Planetable contouring by (II):

April-May, 1953 Date:

Martin C. Moody, Carto. Surv. Aid John S. Winter, Carto. Surv. Aid

Completion Surveys by (II): J.K. Wilson

Date: June 1957

Mean High Water Location (III) (State date and method of location): 1952 field inspection -Supplemented by 1956 photography . conch Island and the north shore of St. Augustine Inlet were inspected during field edit (1967)

Projection and Grids ruled by (IV): S. Rose

3/16/53 Date:

Projection and Grids checked by (IV): H. D. Wolfe

3/17/53 Date:

Control plotted by (III): J. C. Richter

7/6/53 Date:

Control checked by (III): J. S. einberg

Date: 7/16/53

Radial Plot on Steressoenie

Date: 4/11/54

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Manuscript delineated by (III): J. B. Phillips

Date: 2/20/57

Photogrammetric Office Review by (III): H. R. Rudolph

Date: 4/3/57

Elevations on Manuscript

checked by (II) (III): H. R. Rudolph

Date: 4/3/57

Camera (kind or source) (III): USC&GS nine-lens and USC&GS single lens cameras

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
34964 thru 34967 • • • • •	2/14/52	09/1	1:20,000	3.3 above MLW - Inside * 4.0 " " - Outside
34973 and 34974	2/14/52	0954		3.4 above MLW - Inside 4.1 " " - Outside
56-W-3704 thru 56-W-3709	10/19/56	0944	in .	0.3 above MHW
56-W-3839 thru 56-W-3842	10/19/56	1052		3.3 above MLW - Inside
56-W-3852 thru 56-W-3860	10/19/56	1058		2.4 " " - Outside

Ratio of

Ranges

0.9

Date:

Mean |

Date: May, 1959

Date: 10 - 5 - 59

Date: 10-8-59

Range

Range

From Predicted tide tables

Reference Station: Mayport

Subordinate Station: St. Augustine Inlet

Subordinate Station: St. Augustine

Washington Office Review by (IV): 5.6. Blanken baker

Final Drafting by (IV): R.A. Carter

Drafting verified for reproduction by (IV): Wall Halling

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 33

Shoreline (More than 200 meters to opposite shore) (III): 36 miles 26 miles Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II): 24

Number of Triangulation Stations searched for (II):

53 Recovered: 38 Identified: Identified: Number of BMs searched for (II): Recovered:

2 Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III): None

Remarks: * "Inside refers to the St. Augustine Inlet. No data is available for the range of tide in the inland waters in this area.

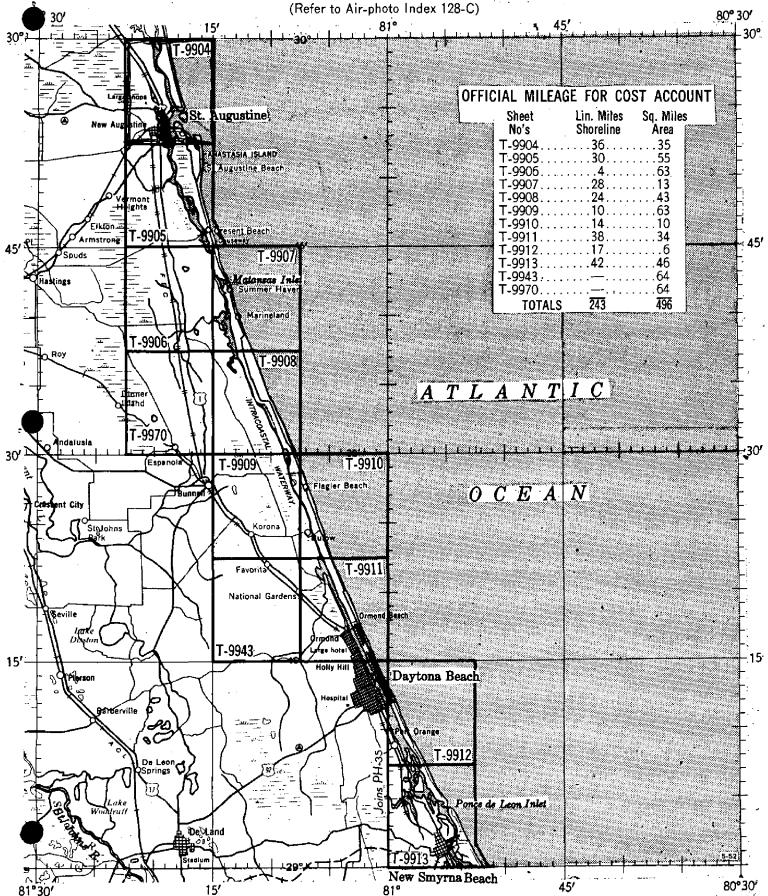
Five (5) Public Lands section corners & three (3) grant Corners were recovered and identified during field inspection & field edit.

TOPOGRAPHIC MAPPING PROJECT PH - 82

-5-

FLORIDA - EAST COAST, St. Augustine to New Smyrna Beach

Compiled by the U. S. Coast and Geodetic Survey at scale 1:20,000 from 1:20,000 scale nine-lens photographs taken February, 1952.



Summary to Accompany Descriptive Report T-9904

Topographic map T-9904 is one of twelve similar maps in Project PH-82. It covers the greater part of the city of St. Augustine and portions of the Tolomato, Matanzas, San Sebastian and Guano Rivers.

Project PH-82 is a graphic compilation project. Field work in advance of compilation included complete field inspection and complete planetable contouring directly on the photographs.

The map was compiled at a scale of 1:20,000. 1:20,000 scale nine-lens photographs were used in field inspection, compilation and radial plotting. "W" camera 1:20,000 scale photographs were used in field edit and in the revision of details. The map was corrected to the date of the "W" camera photography (Oct. 1956) in compliance with field edit instructions.

After the addition of hydrography the map will be published by the Geological Survey as a standard topographic quadrangle.

Items registered under T-9904 will include the Descriptive Report, a positive impression on cronar of the scribed copy of the manuscript at 1:20,000 scale and a lithographic print of the published quadrangle at 1:24,000 scale.

FIELD INSPECTION REPORT Quadrangle T-9904 Project Ph-82(51)

The phases listed below are in addition to those phases shown on Pages 2 and 3:

Name and Title	<u>Phase</u>	<u>Date</u>
Henry R. Spies, Cartographic Survey Aid	Shoreline Inspection	August, 1952
Martin C. Moody, Cartographic Survey Aid	Horizontal Control Vertical Control	October, 1952
John S. Winter, Cartographic Survey Aid	Fly Levels	April, 1953

2. AREAL FIELD INSPECTION

This quadrangle lies entirely within St. Johns County and is centered around the town of St. Augustine. St. Augustine, which is reputed to be the oldest city within the United States, has many attractions for the summer and winter tourists. It was in St. Augustine that occurred the Spanish-French struggle for Florida in the sixteenth century. Many of the old memories are kept alive by the different historic societies and private enterprises. Many tourists visit such places as the Old Fort, Fountain of Youth, old churches and the numerous other attractions.

Little industry is carried on within the area. However, the Florida East Coast Railway has its maintenance shops and offices in St. Augustine, and there is some boat building and shrimping done. Outside the city, the area is used for cattle, turpentining and logging.

Castillo De San Marcos National Momument (old fort) is a part of the National Park System and is administered by the National Park Service, United States Department of Interior. The National Park Service Southeastern District Office is located within the St. Augustine Post Office.

See Field Inspection Report for Quadrangle T-9905 for discussion of Anastasia State Park.

The entire sheet is served by many roads. During the field inspection, it was noted that plans are being made by local authorities to re-build and re-surface U.S. Highway 1, State Highway AlA and State Highway 207. The field editor should be alert for any of these changes.

There was little construction in progress throughout the area. The field inspection is believed to be adequate and the photographs were easily interpreted.

3. HORIZONTAL CONTROL

- (a) No supplemental control was established.
- (b) All stations are on the N.A. 1927 datum.
- (c) Stations which are within the quadrangle, but were not established by the U.S.C. & G.S. are:

<u>Station</u>	Agency	<u>Order</u>
BP-118, 1935	Florida Geodetic Survey	Third
BP-119 "	Ħ	Ħ
BP-120 "	ú	Ħ
BP-122 #	Ú.	11
BP-123 "	n	Ħ
BP-124 "	į ų	ls .
BP-125 "	ti,	tt.
BP-126 "	1ļ	ņ
BP-127 "	ń	n
E-1, 1934	ți	Ħ
E-4 "	ti .	Ú
E-5 **	17	ti.
E-6 "	t i	ij.
USC&GS BM Q-3, 1917	U.S. Geological Survey	tt
DRY RM2	Florida Geodetic Survey	ù

(e) A search was made for all known control points. Stations reported as "destroyed", "lost" or "not recovered" are:

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BP-121 (Fla. Geod. S.), 1935

B-2 (Fla. Geod. S.), 1934

B-3 " "

ELLZEY AZ. MK. (Fla. Geod. S.), 1935

HARRISON, 1859

CASACOLA, 1859

SANCHEZ, 1859

COCKED HAT, 1859

ALLEN, 1859

VILANO BEACH AND BRIDGE CO. WATER TANK, 1933

VILANO CASINO, BASE OF FLAGROLE, N. PARAPET, 1933

BAYA, 1859

ST. AUGUSTINE AIRPORT BEACON, 1933

ST. AUGUSTINE NORTH BASE, 1859

ST. AUGUSTINE PRESBYTERIAN CHURCH, 1859
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(f) Several stations, which were used in the radial plot for Project Ph-35, were re-pricked on the nine-lens photographs for this project.

A. VERTICAL CONTROL

(a) A search was made for all known vertical control. Bench marks in the quadrangle are:

Station	Agency	<u>Phase</u>
BP-118	Florida Geodetic Survey	Third
BP-119	n	u
BP-120	û	13
BP-122	ţi	Ą
BP-123	ů	ú
BP-124	ú	ù
BP-125	Ħ	ij
BP-126	Ħ	ŧi
BP-127	ų	ij
E-1	ņ	ų.
E-4	<u>n</u>	ú
E-5	Ü	ū
E-6	•	
DRY	n 	11
DRY RM 1	19	ti II
DRY RM 2	ti n	
VILANO	••	i
Q-3	U.S. Coast & Geodetic Survey	First #
R-3	η η.	 W
G-15	n	ú
H-15	**	
J-15 D RESET		ii.
ST. AUGUSTINE	n	ű
MARION	ņ	Ú
C=TIDAL 6	ų į	ij
TIDAL 8.	ů.	ņ
TIDAL 9	Ą	n
ST. AUGUSTINE TEM 10	n	Unknown
ST. AUGUSTINE TEM 11	ij	th OTTEN

(b) Twenty-four miles of fly levels were run with a Wye Level, beginning and closing on bench marks of third order or higher accuracy, or on previously established level points. The adjustment of one level line was necessary as it had a closure of 0.37 foot.

- (c) The first and last fly-level points are 04-1 and 04-40. Points 04-1 to 04-4 are recorded in the level book of Quadrangle T-9905.
 - (d) Inapplicable.

CONTOURS AND DRAINAGE

The contouring was accomplished by standard planetable methods on 1:20,000 scale nine-lens photographs at an interval of five feet.

The beach section of the quadrangle is composed of numerous small sand ridges. Most of these areas have a growth of scrub growing on them, therefore there is little shifting of the sand dunes, except immediately adjacent to the beach. The five-foot contour along the beach was not drawn, but appropriate notes have been shown on the photographs. The downtown section of St. Augustine is very low and flat with an average elevation of about seven feet. The terrain in the western part of the city is irregular. Some of the sand ridges attain a height of forty feet.

The quadrangle's drainage is toward the Intracoastal Waterway. Many of the swamps have no definite drainage, except by seepage. The drainage and swamp limits were delineated in accordance with instructions stated in the Director's letter, dated 11 August 1952.

6. WOODLAND COVER

The majority of the area along the beach has been classified as scrub. The palmetto and scrub oak are about five feet high. The remainder of the quadrangle is typical north Florida country with scattered pine and palmetto growing on the high and level ground areas and a mixture of cypress, maple and gum growing in the swamps.

7. SHORELINE AND ALONGSHORE FEATURES

See Special Shoreline Report by Mr. Henry R. Spies, submitted in November, 1952, a copy of which is filed in the Field Inspection Report of Quadrangle T-9911. One (1) Copy filed in the Project Completion Report

8. OFFSHORE FEATURES

There were no offshore features noted. For the accuracy of the location of the low-water line, see Special Shoreline Report.

9. LANDMARKS AND AIDS

For the nautical aids and landmarks, see Special Shoreline Report mentioned in heading No. 7. One new landmark (WEST AUGUSTINE MUNICIPAL WATER TANK, 1933) is recommended on Form 567. No interior landmarks or aeronautical aids are recommended.

The positions of all dids to navigation in at the time were redetermined or verified during field edit(1957)

10. BOUNDARIES, MONUMENTS AND LINES

Five section corners and one grant corner were recovered and identified on the photographs. Form M-2226-12 is submitted for each. Four boundary markers were located along the corporate limit line of St. Augustine and one boundary marker along Anastasia State Park boundary. A Special Report on Boundaries was submitted in April, 1953.

11. OTHER CONTROL

AIRWAY BEACON, 1952 and WFOY RADIO MAST, 1952 are submitted on Form 524. There were no photo-hydro stations established.

12. OTHER INTERIOR FEATURES

Buildings have been circled in red on the control set of photographs. The urban limits of St. Augustine were followed as cutlined by the Washington Office. See contour photograph No. 34%5-A. All roads have been classified in accordance with the Topographic Manual.

Two bridge clearances, a submarine cable and an overhead transmission line are shown on photographs 34%4 and 34%5. A copy of the letter to the District Engineer on bridge discrepancies is included with the Special Shoreline Report.

13. GEOGRAPHIC NAMES

This will be the subject of a Special Report, which will be submitted at a later date.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

A Coast Pilot Report, Shoreline Report, Boundary Report and Geographic Names Report will be submitted as special reports for the entire project. At this date, all of the above reports have been submitted with the exception of the Geographic Names Report.

* one (1) section corner was classified as point on line during field edit.

15. CONTOUR JUNCTIONS

Special attention is called to the junctioning of contours on photograph 34%6-A along the beach, with photographs 49-0-223 and 224 (Project Ph-35, T-9311). The original contouring at this point was changed by the Field Editor on photograph 49-0-224 in purple. Apparently this change was made to generalize the area, however this party could not make a satisfactory junction at this point with photograph 49-0-224, but has junctioned with the original work on photograph 49-0-223. The area involved is composed of a series of small sand ridges and the difficulty has arisen over generalizing or drawing the contours. It is believed the the terrain is expressed better on photograph 49-0-223.

12 May 1953 Submitted by:

Martin C. Moody, Cartographic Survey Aid

16 June 1953 Approved by:

Faul Taylor Commander, USC&CS Chief of Party

PHOTOGRAMMETRIC PLOT REPORT Project Ph-82 Surveys Nos. T-9904 to T-9907 incl.

21. AREA COVERED

This radial plot covers the areas of surveys Nos. T-9904, T-9905, T-9906 and T-9907. These are topographic surveys located along the east coast of Florida and extend from the Guano River Southward to just south of Marineland.

22. METHOD - RADIAL FLOT

Map Manuscripts:

Vinylite sheets with polyconic projections in black and Florida East grid in red, at a scale of 1:20,000 were furnished by the Washington office. Base sheets were prepared in this office.

The positions of all control stations and substitute stations were plotted using the meter bar and beam compass.

A sketch, showing the layout of the surveys in the plot and the distribution of control and photograph centers, is attached to this report. A list of horizontal control stations is also attached to this report.

Photographs:

All photographs used in the radial plot are unmounted nine-lens photographs taken, at a scale of approximately 1:20,000 in February 1952.

23 photographs were used in the plot numbered as follows:

34961 thru 34967 34972 thru 34979 35006 thru 35008 35015 and 35016 35031 thru 35033

Standard symbols were used on the photographs.

Templets:

Vinylite templets were made for all photographs. The master templet was used to correct for paper and film distortion, and for chamber displacement.

Closure and Adjustment of Control:

Vinylite base sheets were prepared by transferring the positions of all identified control to the base sheets, from the manuscripts for surveys Nos. T-9904 to T-9907 inclusive, by matching common grid lines. The positions of several pass points and photograph centers which were established by a prior plot, that fell either within or just south of the areas of surveys Nos. T-9906 and T-9907, were also transferred to the base sheets.

22. METHOD - RADIAL PLOT (Cont.d)

Closure and Adjustment of Control (Cont'd)
The radial plot was constructed on the base sheets.

The templets for those photographs whose centers had been located by the prior plot were laid first holding to the control and passpoints previously established. The templets for 34978 to 34972 were then laid followed by the flights to the west and finally the flight 34961 to 34967. All of the control was held. A satisfactory plot was made.

Transfer of Foints:

The positions of all pass points and photograph centers were pricked directly on the map manuscripts by superimposing the manuscripts on the templets and matching common grid lines.

23. ADEQUACY OF CONTROL

All control was held on most of the photographs with a few radial lines falling tangent to the stations.

The tie in with the control on surveys T-9908 and T-9970, to the south, was very good. The tie in with control to the north of the project was also very good.

The distribution of control was very go od. Several identified stations, in St. Augustine, were not used in the plot since they were not needed to construct a plot.

24. SUPPLEMENTAL DATA

No graphic control surveys were used in the plot.

25. PHOTOGRAPHY

The photographic coverage was adequate.

No tilt determinations were made.

The definition was good except in light struck areas in the southeast corners of some of the photographs.

Respectfully submitted 11 May 1954

Harry R. Rudolph Carto. Aid (Photo)

Approved and Forwarded

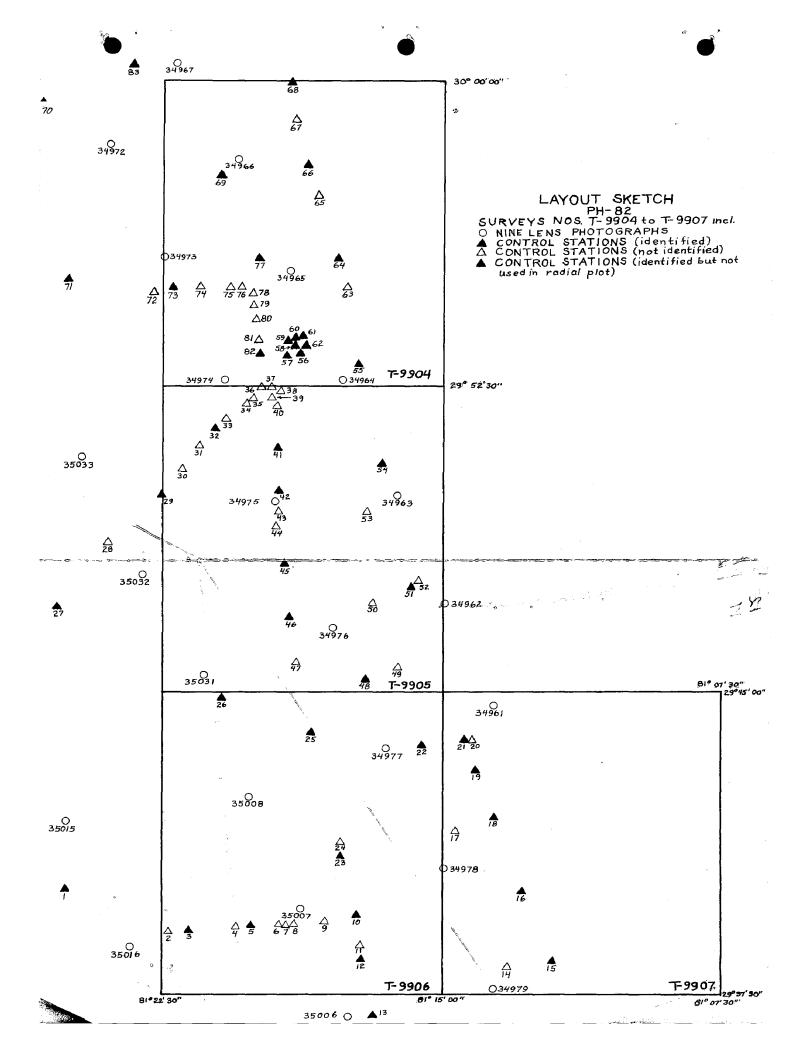
E. H. Kirsch, Comdr. USOGS Officer in Charge

LIST OF CONTROL

No.	Name of Station	Identification
1	BS 44, FGS., 1935	Sub. Point
2	BS 40, FGS., 1935	None
3	BS 39, FGS., 1935	Sub. Foint
4	BS 38, FGS., 1935	None
5	BS 37, FGS., 1935	Sub. Point
6 7 8 9	BS 36, FGS., 1935 PELLICER, 1934 PELLICER AZ. MK RM 2, 1934; FGS, 1935 BS 35, FGS., 1935 BS 17, FGS., 1935	None None None None Sub. Foint
11 12 13 14 15	BS 18, FGS., 1935 BS 19, FGS., 1935 BS 20, FGS., 1935 VIRGIL, 1872, 1952 ROCK, 1934	None Sub. Point Sub. Point None Sub. Point
16	SHEIL, 1934	Sub. Point
17	SWAMP, 1872, 1952	None
18	COVE, 1934	Sub. Point
19	AIRWAY BEACON NO. 28, 1934	Direct
20	LAST, 1872	None
21	NICK, 1933	Sub. Foint
22	DUNHAM 1872, 1952	Sub. Foint
23	BS 15, FGS., 1935	Sub. Foint
24	BS 14, FGS., 1935	None
25	BS 11, FGS., 1935	Sub. Foint
26	DUPONT, 1933, 1952	Sub. Point
27	BP 165, FGS., 1935	Sub. Foint
28	VERMONT, 1933	None
29	BP 160, FGS., 1934	Sub. Point
30	BP 159, FGS., 1934	None
31	BP 158, FGS., 1934	None
32	BP 157, FGS., 1934	Sub. Point
33	BP 156, FGS., 1934	None
34	BP 155, FGS., 1934	None
35	BP 154, FGS., 1934	None
36 37 38 39 40	BP 153, FGS., 1934 BP 152, FGS., 1934 BP 150, FGS., 1934 BP 151, FGS., 1934 BS 1, FGS., 1937	None None None None

LIST OF CONTROL (contid)

No.	Name of Station Ide	ntification
111 142 143 144 145	BS 2A, FGS., 1937 BS 3A, FGS., 1937 BS 4, FGS., 1937 BS 5, FGS., 1937 BS 6A, FGS., 1937	Sub. Point Sub. Point None None Sub. Point
46 47 48 49 50	BS 7, FGS., 1937 BS 8, FGS., 1937 KITTLESON, 1934 BRADDOCKS POINT, 1871 GOVERNMENT, 1859	Sub. Point None Sub. Point None None
51 52 53 54 55	MICKLER, 1933 MARCH, 1871 MANLY, 1859 AUGUSTINE, 1933 ST. AUGUSTINE LIGHTHOUSE, 1882	Sub. Point None None Sub. Point Direct
55 56 57	NAVAL RESERVE W. T., 1933 ST. AUGUSTINE FLAGLER MEMORIAL HOSPITAL STACK, 193 ST. AUGUSTINE FLORIDA POWER AND LIGHT CO. STACK, 1933	Direct 3 Direct Direct
58 58	ST. AUGUSTINE PONCE DE LEON HOTEL EAST CUPOLA,193 ST. AUGUSTINE PONCE DE LEON HOTEL WEST CUPOLA,193	3 Direct
59 60 61 62 63	ST. AUGUSTINE FLAGLER MEMORIAL CHURCH FINIAL, 193 ST. AUGUSTINE GRACE M. E. CHURCH BELFRY, 1933 ST. AUGUSTINE MUNICIPAL STANDPIPE, 1933 ST. AUGUSTINE FIRST NATIONAL BANK DOME, 1933 VILANO, 1933	Direct Direct Direct Direct None
64 65 66 67 68	E 1, FGS, 1934 E 4, FGS, 1934 E 5, FGS, 1934 E 6, FGS, 1934 DRY, 1917	Sub. Point None Sub. Foint None Sub. Foint
69 70 71 72 73	Q 3 (USGS), 1917 SAMPSON, 1933 ELLZEY, 1933 BP 118, FGS., 1934 BP 119, FGS., 1935	Sub. Point Sub. Point Sub. Point None Sub. Point
74 75 76 77	BP 120, FGS., 1935 BP 122, FGS., 1935 BP 123, FGS., 1935 ST. AUGUSTINE FLORIDA E. COAST R. R. SHOPS W. T., 1933	None None None Direct
78 79 80 81 82 83	BP 124, FGS., 1935 BP 125, FGS, 1935 BP 126, FGS, 1935 BP 127, FGS, 1935 WEST AUGUSTINE MUNICIPAL W. T., 1933 PRIM. TRAV. STA. NO. 3K, 1917	None None None None Direct Sub. Point



COAST AND GEODETIC SURVEY CONTROL RECORD U.S. DEPARTMENT OF COMMERCE . DESCRIPTIVE REPORT

SCALE OF MAP 1:20,000

24170

PROJECT NO..

MAP T- 2904

SCALE FACTOR

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 5784; (BACK) 18 FORWARD DISTANCE FROM GRID OR PROJECTION LINE IN METERS 814.5) 822.4) 848.7) 752.8) 111,2) 1985 140.2) 716.3) (1,054) 97.8) (1113.7)988.9) (1239.5)417.0) 834.8) 181.9) 135.2) 378.0) (303-7) (1392.9)(1574.2)252.1) (BACK) N.A. 1927 - DATUM FORWARD 35.7 733.7 838.5 607.9 27.0 1263.0 1357.9 1032.9 7.866 1498.6 1231.9 1131.2 1416.8 1306.2 1192.8 1012.6 1427.9 1025.1 1511.4 1474.7 1094.7 1469.7 DATUM OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) FORWARD LONGITUDE OR x - COORDINATE LATITUDE OR y-COORDINATE 55.855 45.912 16.013 27.883 54.962 35.551 11.019 01.331 56.352 19.744 33.547 44.457 32.887 53, 220 32.436 5h. 776 36.738 50,606 33,292 880.89 23.83 18.68 5 \mathcal{Z} 18 18 18 18 B 2 S ន្ត 쏬 5 S 87 B 弘 13 18 2 S \mathcal{Z} 없 29 29 23 29 8 2 29 29 81 23 83 띦 8 8 80 23 2 8 8 ঞ 8 띪 DATUM N.A. 1927 = = ŧ = ± £ 盘 女 = SOURCE OF G-1788 p. 22 0-1788 G-1788 G-1788 p. 22 ST. AUGUSTINE CATHO-G-1788 LIC CHURCH CROSS, p. 21 ST. AUGUSTINE FIRST G-1788 NATIONAL BANK DOME, p. 21 p. 22 p. 23 (INDEX) # # ¥ # ST. AUGUSTINE GRACE M.E. CHURCH BELFRY, 1933 ST. AUGUSTINE PONCE DE LEON HOTEL, EAST ST. AUGUSTINE PONCE DE LEON HOTEL, WEST CUPOLA, 1933 ST. AUGUSTINE PONCE DE LEON HOTEL POWER ST. AUGUSTINE FLAGLER MEMORIAL CHURCH, FINIAL, 1933 ST. AUGUSTINE F.E.C. WEST AUGUSTINE MUNI. W. T., 1933 ST. AUGUSTINE FLA HOSP. STACK, 1933 R. R. SHOPS W. T. 8 ST. AUGUSTINE FLAGLER MEMORIAL STACK, 1933 1 FT. = 3048006 METER POWER & LICHT STACK, 1933 STATION CUPOLA, 1933 1933

FORM 164 (4.23-54)

DATE COMPUTED BY J. C. Cregan

9 June 1953

CHECKED BY. J. Steinberg

DATE..

15 June 1953

U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY CONTROL RECORD DESCRIPTIVE REPORT SCALE FACTOR

SCALE OF MAP 1:20,000

24170

PROJECT NO...

MAP T. 9904

FORM 164 (4-23-54)

FACTOR DISTANCE FROM GRED OR PROJECTION LINE IN METERS COMM- DC- 5784 (BACK) 19 FORWARD 61.3) 20.3) DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1696.1)(2119.5)(2039.7)(2021.9)(1970.8)(1162.2)(1577.2)(2887.0) (2373.6) 475.2) (2458.3) (1137.4)(1663.5) (2931.0)437.6) 390.5) 825.4) (349.9) (BACK) N.A. 1927 - DATUM FORWARD 928.5 183.9 117.0 161.0 1457.0 1910.6 1077.2 1885.8 32.3 1351.9 1409.9 2222.6 674.4 589.7 1008.3 1026,1 2572.8 2698.1 1547.4 1588.4 DATUM ì. u, 4.1 -5.0 OR PROJECTION LINE IN METERS DISTÂNCE FROM GRID IN FEET, (6,471.64) (2,708.16) 2,212,64 (7,787,36) (6,633.61)(1,147.90)(9,616.00)(5,564,78)(6,953.87)(6,691.87)(3.731.59)431.1) 56-3) (BACK) FORWARD 3,366,39 7,291.84 3,308.13 6,268.11 8,852,10 384.00 4.435.22 528,36 3,046.13 1,552.4 1,416,4 LONGITUDE OR x-COORDINATE LATITUDE OR y-COORDINATE 46.0 57.9 2,033,366,39 2,028,852,10 2,054,435,22 400,528.36 2,047,291.84 2,043,046.13 403,308.13 380,384.00 402,212,64 106,268.11 2 弘 2 20 S 2 2,040 2,030 옄 <u>ş</u> 29 23 23 ᅜ 8 81 N.A. 1927 DATUM N.A. Q-3 U.S.G.S., 1917 AUGUSTINE N.A. QUAD p.39 = 2 # = Ľ St. Johns County N St.Johns County P. 8 SOURCE OF INFORMATION St.Johns County Statom County (INDEX) p. 2 6 .0 9. 9 ₽, 1 FT.= 3048006 METER E-6, FCE, 1934 E-4 FCS, 1934 E-1 FGS, 1934 B-5 FGS, 1934 STATION Sub. Pt. E-1 FGS, 1934 Sub. Pt. E-5 Sub. Pt. Q-3 USGS, 1917 ELLZEY, 1933 FGS , 1934 FGS, 1934 Sub. Pt. B.P-118

15 June 1953

DATE

CHECKED BY. J. Steinberg

9 June 1953

DATE

COMPUTED BY J. G. Cregan

U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

Förм **164** (4-23-54)

COAST AND GEODETIC SURVEY CONTROL RECORD SCALE OF MAP. 1:20,000

PROJECT NO. 2/11/10

MAP T. 9904

SCALE FACTOR

DISTANCE FROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 5784 (BACK) 20 FORWARD (130.3)(2269.2)(0.121) 2164.9 143.0) 954.1) 196.3) (2753.6)185.4) (2371.9)(341.2) (1812.2)839.0) (1744-1) (1481.3) (1639.7)(2536.9)(3,86,1) (810.3) (420.1) (26.6) 559,33 390.8) (74.2 (BACK) N.A. 1927 - DATUM 1549.5 865.3 1566.7 FORWARD 778.8 294.4 511.1 1820.9 676.1 2706.8 1235.8 2209.0 1303.9 1189.8 2917.7 2897.0 883.1 2905.0 2862,6 1,408.3 1037.2 1288.2 1219.0 2093.9 2851.7 DATUM OR PROJECTION LINE IN METERS (1,219,11) DISTANCE FROM GRID IN FEET, (7.444.74) 469.13) (3,130,39)(11-440) (9°03h•0h) 608.32) (7,781,95)(5,945,55)(2,752,77)(5,722,20)(4,859.77)(5,379,51)1,676.80 (8,323.20) (4,916,37) (127.52) (BACK) FORWARD 5,140,23 4,620.49 962,96 h, 277,80 2,218.05 7,247.23 5,083.63 9,572.48 9,355.86 9,391,68 8,880,59 24.050.1 2,555.26 9,530.87 6.869.61 LATITUDE OR 4-COORDINATE
LONGITUDE OR x-COORDINATE 33.684 59.136 32,258 मार-मा 41.837 45.434 2,029,355.86 390,965,96 2,028,880,59 394,054,15 2,027,247.23 394,277,80 394,620,49 2,021,676,80 395,083,63 382,555.26 392,218,05 2,025,140,23 2,029,572,18 2,029,391,68 2,029,530,87 386,869.61 2,020 380 8 Σ 굯 17 18 53 8 63 뗩 81 8 DATUM N.A. 1927 **5** Ħ = 2 Ħ ø Ħ Stelonne County P. 2 SOURCE OF St.Johns County County p. 3 St.Johns G-1788 p. 4 G-1788 P- 20 b-1788 (INDEX) な N ĸ. å = å = BP-120 FGS; 1935 BP-123 FCB, 1935 BP-119 FCS, 1935 BP-125 FGS, 1935 BP-127 FGS, 1935 BP-122 FCS, 1935 BP-124 FCS, 1935 BP-126 FCS, 1935 Sub. Pt. BP-119 FCS, 1935 MUNI STANDPIPE, ST. AUGUSTINE VILANO, 1933 STATION 1933 BANK, 1933

COMPUTED BY. J. C. Cregan 1 FT. = .3048006 METER

DATE 9 JUDG 1953

CHECKED BY. J. Steinberg

15 June 1953 DATE.... U.S. DEPARTMENT OF COMMERCE " DESCRIPTIVE REPORT

MAP T-9904

FORM 164 (4-23-54)

COAST AND GEODETIC SURVEY CONTROL RECORD SCALE FACTOR

DISTANCE FROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS COMM- DC. 5784 (BACK) 21 FORWARD 15 June 1953 (BACK) (1703.4)(1220.4)(1550.4) 95.2) (1088.1)(129.7)(1698.9)(1640.7)(1463.5) 182.5) N.A. 1927 - DATUM FORWARD 206.8 521.9 114.1 389.6 148.6 144.6 2952.8 2865.5 57.7 1717.8 DATUM CHECKED BY. J. Steinberg SCALE OF MAP 1:20,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (312.18)(598.81) (BACK) FORWARD 9,687.82 9,401.19 LONGITUDE OR * COORDINATE LATITUDE OR U-COORDINATE 19.449 06.715 55.789 02.152 Oμ.68 14.52 9 June 1953 2,059,687.82 399,401.19 PROJECT NO. 24170 B 13 8 17 없 13 53 17 2 29 8 81 81 8 8 DATUM N.A. 1927 2 Ħ # St. Johns County p. 10 SOURCE OF 0-1788 P- 4 COMPUTED BY J. C. CROSSAR G.1788 P. 20 G-1788 P- 23 (INDEX) Sub. Pt. DRY, 1917 ST. AUGUSTINE LIGHTHOUSE, 1882 1 FT. = 3048006 METER RM 2, 1933 NAVAL RESERVE W.T., 1933 STATION DRY, 1917 DRY,

DATE

DATE

COMPILATION REPORT

T-9904

31. DELINEATION

This survey was compiled by graphic methods. The field inspection was adequate except for changes in topography which have occured since the field inspection was made during 1952. The inspection was accomplished on nine-lens photographs taken in 1952. Single lens photographs were taken in October of 1956. Changes in topography have been office interpreted using the 1956 photographs.

32. CONTROL

The identification, placement, and density of horizontal control was adequate.

33. SUPPLEMENTAL DATA

U.S.G.S. St. Augustine, Florida Quadrangle, scale 1:62,500 edition of 1943, Final Name Sheet, used for Geographic Names.

Nautical Chart No. 842.

Florida East Coast Railway Map, scale 1" = 100', December 1927.

Large scale map of St. Augustine (Exhibit "F").

Castillo De San Marcos National Monument (Exhibit "J").

Special Report on Boundary Investigation, Project Ph-82 (51) Florida March 1953.

Bureau of Land Management Plats as follows:

T6S - R29E (pages 1, 2, 3, 4, 5, and 6)

T6S - R30E (page 18)

T7S - R29E (pages 7, 8, 9, 10, 11, and 12)

T7S - R301 (pages 19, 20, 21, 22, 23, 24, 25, and 26).

34. CONTOURS AND DRAINAGE

Contours - Adequate.

Drainage - Limits of swamp areas were outlined, stereoscopically, on the 1956 photographs and checked against the field inspection on the 1952 photographs. Where the limits as outlined on the 1956 photographs were in fair agreement with the field inspection, the field inspection was accepted; otherwise; the outline on the 1956 photographs was used.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline was delineated from the 1956 photographs supplemented by the field inspection. The entire shoreline of Conch Island has been shown as unsurveyed. The Conch Island Maw line was field inspected in 1957 a located on the 1956 photography. The Conch Island appreximate New line was delineated from office 36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

Forms 567 are submitted for eleven (11) Landmarks for Charts, two (2) aeronautical aids, and twenty-four (24) non-floating aids for charts.

Several other non-floating aids were identified and recommended. However, they have been discontinued or moved.

The positions of all aids to navigation in at the time were redetermined or verified during field edit (1957)

38. CONTROL FOR FUTURE SURVEYS

Forms 524 are submitted for two (2) Recoverable Topographic Stations.

There are no photo-hydro stations.

39. JUNCTIONS

Junction was made with survey T-9311 (1952) Ph-35 to the north and discrepancies were noted in the shoreline of Guano River and in the public land lines. Contour junction was made with SOUTH PONTE VEDRA BEACH quadrangle to the north.

To the east is an all water area.

Junction was made with Survey T-9905 to the south and is in agreement.

There is no contemporary survey to the west.

LO. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. LAND LINES

All Section and Grant Lines, shown on the manuscript, have been applied to the manuscript from the Land Management Plats listed in paragraph 33 by the following method: Copies of latest plats of the townships were made on vinylite at a scale of 1:20,000. The manuscript was then oriented over these copies of the plats holding to identified section and grant corners, Features delineated on the manuscript, such as roads, ditches, edges of clearings or breaks in tree areas that appeared to be old survey lines, and grant lines on the north and west margins that had been transferred to the manuscript from USGS quadrangles were also held. Adjustments were necessary because the recorded distances between some section corners were in disagreement with the distances between section corners which had been identified and graphically located on the manuscript. Also, there was a poor junction between T7S - R29E and T7S - R30E. See Field Edit Report a Review Report

42 - 45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USGS St. Augustine Quadrangle scale 1:62,500 edition of 1943, and with USGS St. Augustine Quadrangle scale 1:24,000 - Advance sheet, subject to correction - surveyed in 1937.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Nautical Chart No. 842, Scale 1:40,000, combined edition of 1952, corrected to 8 September 1956.

Items to be applied to nautical charts immediately:

None .

Items to be carried forward:

None.

Respectfully submitted 21 February 1956

Jacqueline B. Phillips Pa 4 Harga

Jacqueline B. Phillips

Carto. Photo. Aid

Approved and forwarded

William F. Deane,

CDR, C&GS

Baltimore District Officer

Anastasia Island Araquay Atlantic Ocean

Bird Island Bridge of Lions

Capos I_sland
Casa Cola
Casa Cola Creek
Ca_stillo de San Marcos National Momument
Comatchie Island
Conch Island

Davis Shores

Florida East Coast
Florida Normal and Memorial Industrial College
Fountain of Youth Park

Guano River

Hospital Creek

Indian Creek Intracoastal Waterway
Maria Sanchez Lake
Matanzas River
Mill Creek Road (Fla. 16)
Mount Pleasant Cemetery

Oyster Creek

Pancho Creek / Ponce de Leon Golf Club/

Quarry Creek

Red House Greak Branch Robinson Creek

Saint Augustine Inlet
Saint Augustine Inlet
Saint Augustine Municipal Airport Fairchild - St. Augustine Airfield
Aan Sebastian River
Sombrero Creek
Salt Run

T-9904, No. 2.

Tocoi Road Tolomato River

Usina Beach

Vilano Beach Vilano Beach Bridge

Woodlawn /

Ximanies Creek

U.S. No. 1

Fla. 16 Fla. 207

Above names, on map manuscript, approved 5-10-57. L. Heck

*Additional Names verified by project names report or other available sources, shown on manuscript by numbers, have been underlined on the names sheet.

* St. Augustine Mational Cemetry

St. Francis Barracks State Arsenol

Flagler Memorial Hospital

St. Josephs Academy

old Protestant Cemetary or Huquenot Cemetary

St. Augustine Municipal yate yacht Basin

State Deof & Blind Institution

F. E. C. Miller Shaps

La Leche Mission & Cemetary

Moultrie Junction

Bdy. Anastasia State Park

FIELD EDIT REPORT Project 24170(6082) Quadrangle T-9904

The field edit of this quadrangle was accomplished during the months of May and June 1957.

51. METHODS

The inspection of the quadrangle was accomplished by traversing all roads by truck, walking to other areas which required special attention, and by skiff along the waterways. Instructions were followed in accordance with letter to Baltimore District Office, dated 9 November 1956, 731-mkl. Standard surveying methods were used for other corrections and additions.

All additions, corrections and deletions have either been indicated on the field edit sheet, referenced to the field photographs, or answered directly on the discrepancy print. A legend, describing the colored inks used, is shown on the field edit sheet. Purple ink was used for additional information on the photographs and on the discrepancy print.

One 1:20,000 scale print is submitted as a field edit sheet. One additional 1:20,000 scale print is submitted with the information on fixed aids to navigation and is labeled Planetable Sheet.

Thirty photographs, on which field edit information has been shown, are listed as follows:

56-W-	3705	56-W-3845	- 56-W-3859	34964A
	3706	3846	3875	34965A
	3707	3847	3877	· 34966A
	3708	3851	3879	34974A
	3840	3853	3881	
	3841	3854	3883	
	3842	3856	3887	
	3843	385 7	3915	
	3844	. 3858		

52. ADEQUACY OF COMPILATION

The compilation was adequate with the exceptions and additions indicated by the field edit data. It is believed that the the compilation will be complete after these are applied.

The quadrangle, as a whole, has changed very little since the original field inspection and there was not much construction in progress during the field edit.

U.S. Highway 1 is now a four-lane highway from the northern limits of the quadrangle to the Florida East Coast Railway Yards in the town of St. Augustine. The old routing of U.S. Highway 1 through downtown St. Augustine is obsolete. The routing of Florida State Highway 207 has changed slightly. The highway Department has recently completed a small section of road connecting U.S. Highway 1 with the Hasting Road, thereby eliminating a dangerous curve. Other road routes in the quadrangle have not changed.

The St. Augustine Municipal Airport has been taken-over by the Fairchild Aircraft Division of the Fairchild Engine and Airplane Corporation. The municipal airport has been leased from the City of St. Augustine and Fairchild has purchased several other adjoining properties. The limits of the municipal property was shown by the field inspector on photograph 34966. No attempt has been made to show the present property controlled by Fairchild, however a map of their holdings is submitted with the field edit data. It is to be noted that the municipal property extended out to the west shore of the Intracoastal Waterway and that Fairchild's property also includes that marshy area. The airway Beacon is intact, but was not in operation during the field edit.

All fixed aids to navigation, within the limits of the quadrangle, were either re-located or verified during the field edit. Several methods were employed in their re-location due to photographic coverage and to their invisibility on the photographs. All aids along the Intracoastal Waterway, with the exception of Matanzas River Daybeacons 4 and 5, were identified or verified directly on the photographs. The Guano River Daybeacons, San Sebastian River Daybeacons and Matanzas River Daybeacons 4 and 5 were located by planetable on a double-weight print copy of the quadrangle. The Guano and San Sebastian River Daybeacons consist of smaller one pile structures, which could not be seen on the photographs. A complete list of all aids to navigation, within the limits of this quadrangle, is submitted on form 567. The field editor realized that this was not entirely necessary but since so many of the numbers of the aids have been changed recently, it was felt that a complete list was justified.

The construction of rock jetties at the St. Augustine Inlet had just been started during the field edit. The approximate position of the proposed construction is shown on photograph 56-W3858. The shoreline of Conch Island is subject to considerable change, especially will it be changed after the erection of the new jetties.

A submerged telephone cable, crossing the Intracoastal Waterway at Vilano Bridge, has been shown on photograph 56-W-3857. The overhead clearances of several power lines were measured and noted on either the photographs or field edit sheet.

The investigation of section and land-grant coners is somewhat of a problem in this area. The field editor has spent considerable time searching for additional information. Two land-grant corners and one section corner were recovered and identified on the photographs. Several points on line, which are believed to be correct, have also been shown. These points on line are not entirely reliable as there are differences of opinion among the local surveyors. The public land-line survey did not include land grants 45 through 48 etc. in the city of St. Augustine. It is believed that no attempt should be made to show these grants. The discrepancy print questioned the poor junction between Ranges 29 and 30 East in Township 7 South and also questioned the correctness of the grants in that area. No new corners were recovered, but according to local information, it is believed that they are approximately correct. Grant 41 is believed to be entirely within quadrangle T-9905. The section corner 7, 8, 18 and 17, Township 6 South- Range 30 East could not be postively verified. There is a concrete monument at the position shown on the manuscript, which is probably a point on line.

Triangulation station DRY, 1917 was recovered in good condition. Form 526 is submitted with the field edit data.

53. MAP ACCURACY

The horizontal positions of the map detail appear to be good. No standard vertical accuracy test was requested and none was made.

The contours were visually checked and were found to adequately depict the terrain. Since the original contouring, many areas have been changed due to new construction etc. These areas have been revised during the field edit.

54. RECOMMENDATIONS

None

55. EXAMINATION OF PROOF COPY

Mr. J.H. Lauper, City Engineer of St. Augustine and a resident of the area for fifty years, has agreed to examine a proof copy of this quadrangle for possible errors. Mr. Lauper's address is: P.O. Box 757, St. Augustine, Florida.

All geographic names were verified as shown on the advance copy of the manuscript, however the following changes are noted: The distance, shown in the western portion of the sheet as 0.5 miles to Glimpse of Glory, is not recommended. The name GLIMPSE OF GLORY is no longer known and is obsolete. The distance, shown in the southern portion of the sheet as 6 miles to Butler Beach is not recommended. It is recommended that the distance be shown to Crescent Beach. Crescent Beach is much more prominent than Butler Beach and there is only a short distance separating the two.

21 June 1957

Submitted by:

Joseph K. Wilson

Cartographer

Ira R. Rubottom CDR, USC&GS Chief of Party

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9904

1. 7904
1. Projection and grids H.R. R. 2. Title H.R.R. 3. Manuscript numbers H.R.R. 4. Manuscript size H.R.R.
4a. Classification label H.R.R CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy <u>H.R.R.</u> 6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations) #. R. 7. Photo hydro stations8. Bench marks #. R. 2.
9. Plotting of sextant fixes <u>H.R.R.</u> 10. Photogrammetric plot report <u>H.R.R.</u> 11. Detail points <u>H.R.R.</u>
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline H.R.R. 13. Low-water line H.R.R. 14. Rocks, shoals, etc. H.R.R. 15. Bridges H.R.R. 16. Aids
to navigation <u>H. R.R.</u> 17. Landmarks <u>H. R.R.</u> 18. Other alongshore physical features <u>H.R.R.</u> 19. Other along-
shore cultural features <u>H.R.R.</u>
PHYSICAL FEATURES
20. Water features H.R.R. 21. Natural ground cover H.R.R. 22. Planetable contours H.R.R. 23. Stereoscopic
instrument contours 24. Contours in general 4.R.R. 25. Spot elevations 4.R.R. 26. Other physical
features H. C.R.
CULTURAL FEATURES
27. Roads H.R.R. 28. Buildings H.R.R. 29. Railroads H.R.R. 30. Other cultural features H.R.R.
, BOUNDARIES
31. Boundary lines <u>H.R.R.</u> 32. Public land lines <u>H.R.R.</u>
51. Boundary lines 200 Fublic land lines 200 Sec.
MISCELLANEOUS
33. Geographic names H.R.R. 34. Junctions H.R.R. 35. Legibility of the manuscript H.R.R. 36. Discrepancy
overlay <u>H.R.R.</u> 37. Descriptive Report <u>H.R.R.</u> 38. Field inspection photographs <u>H.R.R.</u> 39. Forms <u>H.R.R.</u>
40. Harry R. Russelft. Joseph Stumberg Reviewer Supervisor, Review Section or Unit
()
41. Remarks (see attached sheet)
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The
manuscript is now complete except as noted under item 43.
J. Honick seg F. Tarcza see Compiler Supervisor
Compiler Supervisor

43. Remarks:

Review Report Topographic Survey T-9904 May 26, 1959

62. Comparison with Registered Topographic Surveys:

No.783 - 1:10,000 - 1859 No.4094 - 1:20,000 - 1924

T-9904 supersedes the above surveys for nautical charting purposes in common areas.

63. Comparison with Maps of Other Agencies:

St. Augustine, Fla. (USGS-1937) 1:62,500

The map is outdated.

St. Augustine, Fla. (AMS-1954) 1:50,000

The map was copied in 1954 from the USGS (1937) quadrangle.

64. Comparison with Contemporary Hydrographic Surveys:

Inapplicable

65. Comparison with Nautical Charts:

842 1:40,000 1952 revised 10/20/58 1243 1:80,000 1940 revised 12/15/58

Numerous differences exist in the MHW line and MLW line delineation and in the positions of aids to navigation.

The greater part of the Tolomato River shoreline consists of marsh or scattered grass in water with shell banks along the outer edge. Field inspection notes indicate the banks vary in height, defining the MHW line in some areas— the approximate MLW line in other areas. The shell bank was used for the MHW line on chart 842.

There are differences in the shoreline delineation on Conch Island, in the San Sebastain River and along the ocean north of the St. Augustine Inlet.

The MHW line on Conch Island was field inspected by the field editor in 1957. The approximate MLW line was delineated on the manuscript from office interpretation of the 1956 photographs.

The MHW line and the approximate MLW line along the ocean north of St. Augustine Inlet were located on the photographs by measurements to identifiable points by the 1952 field party.

Position of all aids to navigation shown on the manuscript were redetermined or verified during field edit in 1957. Numerous charted positions of aids to navigation differ from positions furnished by this survey. Two unnumbered (chart 842) Daybeacons and Daybeacons Nos. 20 and 22 in the San Sebastian River apparently were not in at the time of field edit.

The field editor reported Matanzas River Daybeacon No. 12 not in at the time of field edit.

Guano River Daybeacons 5 and 7 shown on chart 842 were reported destroyed in 1957 (form 567).

See heading 67 for bridge and cable data.

66. Adequacy of Results and Future Surveys:

This map complies with the National Standards of Map Accuracy and Bureau requirements.

67. Bridge and Cable Data:

- (1) Vilano Beach Bridge (vertical lift)
 Horizontal clearance 89.5 ft
 Vertical clearance MHW
 Closed 5.8 ft open 83.8 ft
- (2) Ovhd. cable south of Vilano Beach Bridge -104.6 ft MHW
- (3) Bridge approximately 3500 ft. SW of Valano Beach Fixed Bridge Horizontal clearance 31 ft Vertical " 6.6 ft

Cable adjacent to bridge (ovhd power) Clearance 38. ft MHW

(4) Bridge of Lions
Double bascule
Horizontal clearance 76.7 ft.
Vertical clearance (closed) 24 ft. MHW

(5) Cable over San Sebastian River SE of King St. Bridge - 75 ft MHW

68 St. Augustine Light Station Boundary:

The boundary was delineated from the field inspected limits outlined with the aid of the lightkeeper on photograph 34934. The fact that the boundary is not in agreement with the resurvey plot (1923) of the reservation was called to the attention of the field editor. No positive evidence that the boundary was checked is available.

69 Land Lines:

With the exception of T75, R29E not enough recovery was accomplished to accurately position the land lines on T-9904.

Junction was made with grant lines as published on USGS South Point Vedra quad. (USC&GS -T-9311-PH 35A) to the north of this survey. The township line between range 29E and 30E was not joined. Land lines in the junction are considered unreliable on both surveys.

The public land and grant lines within the city limits of St. Augustine were omitted to prevent confusion of detail.

Reviewed by:

J. Blankenbaker

Approved by:

Review & Drafting Sec.

Photogrammetry Division

Chief, Nautical Charts Br.

Charts Division

Form 567 April 1945

DEPARTMENT F COMMERCE

U. S. COAST AND GEODETIC SURVEY

WHAUTICAL.

MONTENED AT A STATE OF ALANDING FOR CHARTS

TO BE CHARTED STRIKE OUT ONE

Baltimore, Maryland

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

19 57

The positions given have been checked after listing by H. R. Rudolph

			9	1_	1		1	1	1	1	1	-	1	1	1	3
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-	TRA	B CH	наяво													
		And State	LOCATION	1882	4 1000	20.47.26										
1000年の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の	METHOD	LOCATION	SURVEY No.	1-9904 Tri	Bed to 1000											
			DATUM	N.A.	*											
		LONGITUDE	D. P. METERS	19.449	37.18											
	POSITION	LON	- 0	81 17	81 20											
		LATITUDE	D. M. METERS	206.72.5	1											
		LATI	- 0	29 53	29 57										100	
			SIGNAL													
	MUNICIPAL		DESCRIPTION	St. Augustine Lighthouse, 1882 Ht = 162 (177 MSL)	St. Augustine Airport Beacon Ht = 91 (101) (Not in operation at	to of field										
	STATE		CHARTING	MARTINE LICOILE	AERO											

with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. 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.

DEPARTMENT JF COMMERCE

U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS ON/ALAMDMARKS FOR CHARTS

STRIKE OUT ONE TO BE CHARTED TO INC.

Baltimore, Maryland

I recommend that the following objects which have (http//ttp) been inspected from seaward to determine their value as landmarks be charted on (deliberal field) the charts indicated.

Harry R. Rudolph The positions given have been checked after listing by

The control of the	GTATE			FLORTDA	AUTROIN TAXES	1			PO	POSITION			METHOD		TRAH	
Control Cont	DIAIR			A LOUIS A		man		LATITUDE		LON	GITUDE		LOCATION	DATE	OBE CH	CHARTS
Guano Blogs beared 1/10/57 29 59 1/11 81 19 35,51 Mah. Badt 1952 x 1 1 1 1 1 1 1 1 1	CHARTING			DESCRIE	PTION	機器	0	D.M.ME	TERS		D. P. METERS	DATUM	T-9904	LOCATION	HSNI	
3	SEACON 1	Guar	no Piv	er Dayber	telio 157			21				M.A. 1927	Rad.	1952	×	81/2
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DEPARTMENT JF COMMERCE

U. S. COAST AND GEODETIC SURVEY

NONFLOATING ALDS/OR/LIAMDMARKS FOR CHARTS

TO BE CHARTED TO MAY PAPUETY

STRIKE OUT ONE

Baltimore, Maryland

1957

3 May

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

H. R. Rudolph The positions given have been checked after listing by

Pate of Field Edit 6/21/57

								ETTIA.	William F. Deane,	ane	Chi	Chief of Party.
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		Man		LATITUDE		LON	LONGITUDE		LOCATION	DATE	SE CH	CHARTS
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. 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.

F COMMERCE U. S. COAST AND GEODETIC SURVEY DEPARTMENT

MONFLADATING / PADS/ OR LANDMARKS FOR CHARTS

STRIKE OUT ONE TO BE CHARTED 79/194/194/197

Baltimore, Maryland

19.57

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

H. R. Rudolph The positions given have been checked after listing by

CHARTING CELEVATED St. Augustine, F.E.C. RR Sho) Mater Tank, 1933 Ht = 121 (130) ADIO (Radio Station WFOT) Skeleton Steel CHART (Radio Station WFOT) Skeleton Steel St. Augustine Municipal Standplue, 1933 TANDPIPE Ht = 125 (132) St. Augustine, Flagier Memorial Church URCH DOME Finial, 1933 Ht = 131 (140) (St. Augustine, Fonce de Leon Hotel, Ea (CHEL (West Cupola, 1933 Ht = 137 (145) (St. Augustine, Fonce de Leon Hotel, Ea (Cupola, 1933 Ht = 137 (145) St. Augustine, First National Bank, Dom 1933 Ht = 134 (142) St. Augustine, First Sower & Light Co. Stack, 1933 Ht = 143 (150) LGHT St. Augustine L. H. 1882 Ht = 162 (175) ANN (Elevated) Naval Reserve Water Tank, 1933 Ht = 131 (140)	Signal NAME Shops	LAT						METHOD			FAH:	
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Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. individual field survey sheets. Information under each column heading should be given.

Form 567 April 1945

DEPARTMENT JF COMMERCE

U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR/ILAMINAMARKS FOR CHARTS

16/月年/只MARRARA TO BE DELETED

STRIKE OUT ONE

St. Augustine, Florida

August

19 52

I recommend that the following objects which have mate her inspected from seaward to determine their value as landmarks be

Henry R. Spies Apply 644 (deleted from) the charts indicated.

The positions given have been checked after listing by

STATE	FLORIDA				POSITION			METHOD		THA	THAN
			LAT	LATITUDE	LONG	LONGITUDE		LOCATION		BE CH	
CHARTING	DESCRIPTION	SIGNAL	- 0	D. M. METERS	- 0	D.P. METERS	DATUM	SURVEY No.	LOCATION	HARBO	AFFECTED
DAYBEACON 2	Guano River Daybeacon		29 59.1		81 19.7						
			30 00-1		81 19.5						
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						7					
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with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not bydual field survey sheets. Information under each column heading should be given.

COAST AND GEODETIC SURVEY

NONFLOATING AIDS BRUIKANIMMAKERES FOR CHARTS

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Form 567 April 1945

Bunnell, Floride

19.57 11 June

I recommend that the following objects which have (NATEXNIAR) been inspected from seaward to determine their value as landmarks be

Metthew A. Stewart The positions given have been checked after listing by

STATE	(A)				POSITION			METHOD			TAAH:	
	antion a		<u>ל</u>	LATITUDE:	LONG	LONGITUDE	i i	LOCATION	DATE OF		3 380	CHARTS
CHARTING	DESCRIPTION	SIGNAL	•	D.M. METERS	, 0	D. P. METERS	DATUM TI A	BURVEY No.	LOCATION	HANN HANN	HENTO	ATTECTED
MATANZAS	das river daybeacon(12)		29 52,7	7	81 18		_ ,	F086-I	1967	×	_	842
* SAN SI	SEBASTIAN RIVER DAYBEACON(8)		29 528	80	81 185		=	=	=	×		842
* SAN SI	SEBASTIAN RIVER DAYBEACON(9)		29 52.7		081 18		E	=	E	×		842
* SAN S	SEBASTIAN RIVER DAYBEACON(10)		29 528	-63	81 184		=	41	E	×		842
* SAN S	SHBASTIAN RIVER DAYBEACON(11)		29 52B	60	81 180		£	u	H	×		842
GUANO	GUANO RIVER DAYBEACON(5)		29 62	63	81 194		£	E	t t	X		842
GUANO	GUANO RIVER DAYBEACON(7)		29 593	83	81 194		=	t	t=	X		842
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* Relocat	* Relocated in 1957 (See Forn 567, 16DEC. 1952	Survey	7 9905									
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. 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.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS ON MANAMARKS FOR CHARTS

STRIKE OUT ONE TO BE CHARTED 机约/ 的世/ 白星上在丁柱场

Baltimore, Maryland

I recommend that the following objects which have may been inspected from seaward to determine their value as landmarks be charted on (determine their value as landmarks be The positions given have been checked after listing by __

H. R. Rudolph

Dute of field edit some zings?

11								WITT	William F. Deane	me	Chie	Chief of Party.
	STATE	FLORIDA				POSITION	NO		CONTAN		TH	
1	- Constitution			3	LATITUDE *	-	LONGITUDE *		LOCATION	DATE	E CHY	CHARTS
	NAME	DESCRIPTION	SIGNAL		D. M. METERS	0) III	DATUM	SURVEY No.	LOCATION	ROBRAN ROHEN ONETT	AFFECTED
DAYE	DAYBN 33	Sam Sebastian River Daybeacon		29 53		81	19 14.53	N.A.	Plot.	2000	1	1
DAYBN	3N 32	San Sebastian River Daybeacon		29 53	252	81	77	"	· Pique table	1775	×	842
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DAYBIN	孤 27	San Sebastian River Daybeacon		29 52	59.63		10 28.47	=	=	: .	×	=
DAYB	DA YBN 26	San Sebastian River Daybeacon		29 52	58.75		26	=	= =	= =	M	= :
DAYBN	N 24	San Sebastian River Daybeacon		29 52	1744	81 1	8	=	=		M I	
DAYEN 18	N 18	San Sebastian River Daybeacon		29 52	1450	81 1	07	=	=		H I	= :
DAYBN	N 17	San Sebastian River Daybeacon		29 52	1407	81 1	19 03.65	=	=		× Þ	: :
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DAYBN 13	N 13	San Sebastian River Daybeacon		29 52		81 18	8 1510	=	=	=	4 5	•
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. 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.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS PRILANDWARKS FOR CHARTS

TO BE CHARTED STRIIL

STRIKE OUT ONE

10 December, 1957

I recommend that the following objects which have (http://htt been inspected from seaward to determine their value as landmarks be charted on (dalutal field) the charts indicated.

Baltimore, Maryland

The positions given have been checked after listing by H. R. Rudolph

Date of Field adit June 1457

CHARTS Chief of Party. 842 -= = * = = = 無 OFFSHORE CHART INSHORE CHART LOCATION 1957 * = -* = 22 = = = filliam F. Deane LOCATION AND SURVEY Plot Plane Rad. Plot Plane tob 1-9904 = = . = = --* = --== = = = = = DATUM = # # -= 14.61 1250 07.50 280 D. P. METERS 10.11 1375 201 51.29 57:75 07.39 26.15 26.42 37.72 36.63 101 707 15.07 LONGITUDE * 18 18 19 19 POSITION 20 20 20 19 13 81 81 81 81 81 81 81 81 81 81 81 81 58.10 1606 97.60 282 52.16 58.10 1589 03.09 05.07 31.60 36.08 51.61 162 1111 03.22 LATITUDE * 23 28 2 59 29 59 28 30 00 29 59 5 3 8 50 29 59 29 59 . 53 53 29 29 29 29 29 29 2 SIGNAL Matanzas River Daybeacon Matanzas River Daybeacon Tolomato River Daybeacon Tolomato River Daybeacon Tolonato River Daybeacon Tolomato River Daybeacon Tolomato River Daybeacon Tolomato River Daybeacon DESCRIPTION Guano River Daybeacon Tolomato River Light FLORIDA CHARTING DAYBN 44A थ DAYBN 52 DAYBN 46 DAYBN 42 DAYBN 39 STATE DAYBN 5 DAYBN 4 DAYBN 8 DAYBN 1 DAYBN 2 DAYBN 4 LT. 38 DAYBN DAYEN

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. 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.

Form 567 April 1945

DEPARTMENT F COMMERCE

U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS ON MANAMARKS FOR CHARTS

TO BE CHARTED STRIKE OUT ONE

Baltimore, Maryland

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

H. R. Eudolph The positions given have been checked after listing by

Chief of Party.

William F. Deane,

		CHARTS		842	-										
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		10 HOB											7 6		
		OF		1957	=										
	METHOD	LOCATION	Ban No.	THANK!	=	200									
			ратом	1927											
		LONGITUDE *	D. P. METERS	20.37	36.26					,				100	
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	ā	LATITUDE*	11 11 11 11 11 11 11 11 11 11 11 11 11	1969	53.59	~~~									
		LATIT	- 0	00 00											
			SIGNAL				1								
	Anthon	FLORLUA	DESCRIPTION		Guano Hiver Daybeacon	Guano River Daybeacon									
		STATE	CHARTING	NAME	DAYBN 12	DAYBN 17									

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by M-2836-3 individual field survey sheets. Information under each column heading should be given.

NAUTICAL CHARTS BRANCH

SURVEY NO. <u>7-9904</u>

Record of Application to Charts

CHART	CARTOGRAPHER	REMARKS
842	L.A.M.G.	Before After Verification and Review
		Examined - not applied at this time.
842	R.E. Elkins	Before After Verification and Review
		Fully applied - topo revised.
		Before After Verification and Review
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	842	842 L.A.M.G.

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.