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| | 1247 | |
| | Form 504 Rev. June 1941 | |
| | DEPARTMENT OF COMMERCE | |
| | U. S. COAST AND GEODETIC SURVEY | |
| | DESCRIPTIVE REPORT | |
| | Air Photographic Sheet m-5019 | |
| | Plane Table Hydrographic Survey No. 120916 | |
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| | Date of Photos 1/9/40 | |
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| | State Florida | ******************************* |
| | Seate | |
| | General locality East Coast | , |
| | St. Lucie River | |
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| | 1942 | |
| | CHIEF OF PARTY | |
| | Lieut. Comdr. Kenneth G. Crosby | |
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applied to Chart 846 before review Oct 16, 1942 Hoste.

applied to ch. 1289 8/18/43 StE applied to chart 1112 before review 2/10/44 BR 1247 after review 3/17/44 SHE

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REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Sheet No. T-5918

REGISTER NO.

| State Florida | | |
|---|----------------------------|---------------|
| General Locality East Coast | | |
| Locality North Fork St. Luci | le River | |
| Scale 1:10000 Date of | Photos Enrwey January 9 | 19 40 |
| Party Vessel Air Photographic Part | ty No. 1 | |
| Chief of party Lieut. Comor. | . K. G. Crosby | |
| Field inspected by: Lieut | t. J. D. Thurmond | |
| Inked by R. Dossett, Sen | | |
| Heights in feet above | to ground to tops of | trees |
| Contour, Approximate contour, | , Form line interval | feet |
| Instructions dated | April 3 , | 19 4 0 |
| Remarks: | | |
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DESCRIPTIVE REPORT TO ACCOMPANY SHEET NO. T---5918

GENERAL

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

The general locality of the area covered by this sheet is Florida East Coast, in the vicinity of the St. Lucie River. It includes the North Fork of the St. Lucie River and extends eastward to include the western shoreline of Indian River at the town of Jensen. The shoreline is generally fast with flat ground, vegetated with pine, palmetto and grass.

The upper tributaries of the North Fork, St. Lucie River are vegetated with fringes of mangrove and scattered palm.

The vegetation inshore consists principally of palmetto and grass with scattered pine and occasional patches of swamp. There are numerous ponds, grassy ponds, marshes, and flooded areas throughout the sheet. Large areas that were formerly marshy have been drained by an extensive system of ditches.

There is one large area of citrus cultivation in the vicinity of Howard Creek. There are no other cultivated areas of importance. Along the Eastern boundary of the sheet, from Jensen Southward, there are large areas of abandoned cultivation that are now vegetated with scattered pine, palm and grass.

All roads shown by a centerline should be drafted 0.6 m.m. wide.

CONTROL

Control on this map drawing consists of the following triangulation stations:

| Lucie | 1934 | J. Bowie, Jr | ٠, |
|-------|------|--------------|----|
| End | 1930 | C. A. Egner | |
| Nest | 1930 | C. A. Egner | |

The following triangulation stations fall on this sheet but outside the detailing limits: Swan, 1930; Pisgah, 1883-1934; Mendel, 1930; Spit, 1930; Draw, 1930; and Cemetery, 1906-1934.

The position of the azimuth mark at triangulation Station Lucie, 1934 was compared with the geodetic azimuth given in the list of geographic positions and was found to be in good agreement.

INTERPRETATION OF PHOTOGRAPHS

The photographs were clear and no difficulty was experienced in their interpretation.

MAIN RADIAL PLOT

A continuous radial plot was run on April 22 - 24, 1942 inclusive, for the purpose of locating all photograph centers, all hydrographic stations, topographic stations, bench marks, azimuth marks, and radial points. The plot extended over the area covered by sheets T-5912 to T-5919, inclusive. All photographs in the area were used. It extends along the St. Lucie Canal from Stuart, Florida, South and westward to Lake Okeechobee at Port Mayaca. Photographs 4591, 4583 and 4584 are the northeast limits and photo 4564 forms the westerly limits.

The plot consisted of 37 templates all being for 9 lens photographs and being controlled by triangulation stations as follows: 1 by 0; 12 by 1-2; 9 by 3; 8 by 4-8; 7 by 9-13. These templates were made in accordance with "Notes on Radial Plotting of nine-lens Photographs", dated April 9, 1940.

The control afforded by first and second order triangulation was sufficient on sheets T-5919, T-5917 and T5912. Triangulation control was very meagre on sheets T-5913, T-5914, T-5915 and T-5916; but it was felt that additional field observations were not necessary.

The usual practice of laying the plot was followed. This consisted of plotting the control on the survey sheets and then transferring it to the base grid sheets by matching grid squares. The agreement between the grid lines on the survey sheet and those on the base grid was excellent and no adjustment was necessary. After laying the plot, the intersections of the radial lines were transferred to the survey sheet by again matching grid squares as previously described:

The plot was laid only once with the exception of those templates on sheets T-5914 and T-5915. The laying of the plot began with the templates on sheets T-5917, T-5918 and T-5919 and proceeded southwest to triangulation station "ALLEN" on sheet T-5916. These templates were rigidly controlled. From that point to sheet T-5912 the templates were laid by holding intersections of radial lines and azimuth, and due to lack of control the templates on sheets T-5914 and T-5915 had to be laid three times before a satisfactory tie-in of control on sheet T-5912.

The agreement along the flight line and the intersections of radial lines to adjacent photographs was excellent, with exceptions as noted in this paragraph. About 98 percent of the points established by the plot resulted from the intersection at a common point, of three to six radial lines. The remaining 2 percent are instances where only two "cuts" could be obtained. These are mostly out on the wings of the photographs and while the value of the intersection will be determined by the draftsman, it is believed that the majority of them will be outside the detailing limits. In six or eight instances the point was selected at the center of gravity where the radial lines did not form a common intersection. In no case were the sides of the triangle of error greater than 0.25 m.m. away from the point selected.

The conditions in the preceeding paragraph apply to seven of the eight sheets of this plot. The other sheet (T-5814) was the "weakest" of the

plot, in so far as control is concerned, and a common intersection of radial lines was not obtained in some instances on the northern half of the sheet. There are fourteen of these instances and in each case the "cuts" were transferred to the survey sheet for further investigation by the draftsman. The points on the southern part of the sheet were picked at common intersections and after the draftsman has made further investigation, it is believed the detailing will be accomplished with the desired accuracy.

To summarize - the plot is considered "strong"; no large or unusual adjustments were necessary; and that all points are picked with 0.25m.m. of their true position.

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

Photographs

Triangulation and traverse stations.....2.5 mm blue circle Hydrographic and topographic stations....2.5 mm green circle Radial points in main plot..........2.5 mm red circle

Survey Sheet

FIELD INSPECTION

The field inspection was made by Lieut. J. D. Thurmond and George E. Varnadoe, principal Engineering Aid, during the months of January and February, 1942.

Field notes were plentiful over the entire area covered by this sheet.

The legend used by the field inspector and by the draftsman is made a part of this report.

DETAILING

The detailing of this sheet has been done in accordance with the current instructions for this sheet and project:

Before detailing the surface of this sheet was rubbed with magnesium carbonate and washed off: No additional cleaning was necessary, and except for occasional touched-up places, no re-inking was required.

The scale of all photographs was found to be reasonably good, however,

there was found to be an unbalanced scale on all of them, in which a good scale appeared on one side while the other was not good;

Only those trails appearing to lead to some definite point have been shown.

All buildings visible under the sterescope have been shown.

JUNCTIONS

This sheet forms a junction on the South with T-5917 and on the East with T-5919, both Junctions are in good agreement:

COMPARISON WITH OTHER SURVEYS

A comparison was made with Lithographic Print 4542, in the area North of the entrance to St. Lucie River. The scale of 4542 was somewhat larger, however except for this, they were found to be in good agreement.

No former topographic maps were available for a comparison with the Western part of this map drawing:

LANDMARKS

There are no prominent landmarks within the limits of this sheet.

GEOGRAPHIC NAMES

The geographic names for this sheet are the subject of a special report entitled "Investigation of Geo graphic Names, Florida, East Coast, St. Lucie River, Cross State Waterway, and Lake Okeechobee", submitted by Harold A. Duffy, Senior Photogrammetric Aid.

Photogrammetric Aid

Forwarded.

| | Remarks | Decisions |
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SHEET NO. T-5918

SUPPLEMENTARY SURVEYS

| Control Surveys | | Name | Date | Houra |
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| Control Picked on Photographs.: JEH | | | • - | 1 |
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St. Lucie Inlet, Ref - Mayport, Florida

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REPERT OF STATION

Stationt Lucie, 1934 Dutum N. A. Detum, 1927 27° 16' 22.481" (691.9m)

80° 19' 03.615" (99.4 m)

Adjusted

Fla. E. Zone

x= 721,648.08 y= 1,068,937.58

LEGEND USED FOR FIELD DESCRIPTION AND DESCRIPTION PROJECT 21.2 - 1942

| | · · · · · · | |
|----|--|--|
| | TRUES | <u>POIDS</u> |
| | Pi - Pine | |
| | | P - Fond |
| | C7 - Cypress Polo - Palmetto | Cy P - Cypress Pond |
| | Palm— Palm | IP - Intermittent Pond |
| | DT - Deciduous trees (broad leaf) | and and between the arms |
| | Cit - Citrus (orchard) | SHOULLINE |
| | Lix - Pine, Oppress & Doc. trees | H.V.L - moun high waterline (solid |
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| | h.w Henvily wooded | mean high water line on m rah) |
| | Sor Scrub trees; | Dk - Dock |
| | ***** 7198 6 (PTCB) | Pr - Pier |
| | VEGETATION | Se W - Seawall |
| | n (5:344m2) 4 | Richd - Bulkhead |
| | C - Cultivation | Conc - Concrete |
| | Gr - Grass | Eo - Wooden |
| | T Gr - Tell Tropical Grass | Jet - Jetty |
| | W - Larsh (deshed blue line on | Dol - Dolphin |
| | inshore limits) Forsh grass in water (deshed blue | Pilo - Pilo (Give type) |
| | and the Charles and white Adviction metab | |
| | line on offshore limits) Sw - Swamp | Eud - Lud |
| | L'S - l'angrove | ik - Rock or Rocky |
| | Hdg - Hedge | Sty - Stony |
| | ~ | ii - Later |
| | STIMALS | Blf - Bluff (height) |
| | Ga - Canal (width) | SUILLINGS |
| | Ga - Canal (width) Gr - Creek | |
| | | H - House, barn or building |
| | | Ch - Ghwrch (give name) |
| | I 9 Intermittent Stream | Ct H - Court House (give name) |
| | *** . FOREILE GLAVIIKE fineriached | Bo H - Boat House |
| | Brg - Bridge or symbol Cv - Culvert | P.O Fost Office (give name) |
| | I AV Yahan | Reliebta-Reilroad station (give name) |
| | • . | Hos - Hospital (ive mens) |
| | P.C.S Florida Geodetic Survey | Sch - School (give name) |
| | N S P 11 A 11 Land | TATO AND T. DOLLAR |
| | USBS - U.S. Biological Survey | HISCELLANDOUS |
| | | F - Fance |
| | DOMEST A 15 TOTO INC. | FB - Fire Break (mainteined) |
| | | FRX - Fire Break (abandoned) |
| | Md 1 - 1st class road (myed) | Cem - Cemetery |
| | nd 2 = 2nd class road | Park - Park (give name) |
| ļ. | ir - traff | F.T Pire tower |
| | n n - wallroad | T.T Transmission tower(tall steel) |
| | V P Vor last strice the kine) | P.L Poser Line |
| | UP - Undi pass(state the kind) | Shoal - Approx. limits by long dashed |
| | A " Mcandoned trail, road, etc. | line for use by hydrographer. |
| | R H ab- P.R. abandoned (grade only) | • |
| | | |

Word as a non-pro- in affection and destring

| A STATE OF THE STA | <u> </u> |
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| H H cb- P.H. abundaned (grade only) | line for use by hydro pupier. |

Division of Photogrammetry

Review of Planimetric Map T-5918

This map was compiled in the Tampa Photogrammetric Office in 1942, but Washington Office processing was delayed because of war map work of the Bureau. The map was reviewed in 1943, printed in 1945, and registered in 1947.

Field Inspection and Detailing.

These were adequate and only a few minor changes were necessary on the manuscript during review.

Comparison with Previous Topographic Surveys.

T-5918 supersedes the following older surveys:

| T-1652 · | 1883 | 1:20,000 |
|----------|------|----------|
| T-4534a | 1930 | 1:20,000 |
| T-4534b | 1930 | 1:10,000 |
| T-4542 | 1930 | 1:20,000 |

Comparison with Nautical Charts.

T-5918 was applied to charts 846 and 1289 prior to this review. However, no changes of consequence to the charts were made during the review.

Reviewed under the direction of D. H. Benson in December 1943.

This report prepared by B. G. Jones from reviewer's notes in May 1947.

APPROVED BY:

Technical Assistant to the Chief, Div. of Photogrammetry Division of Charts

Chief, (Nautical Chart

Chief, Div. of Photogrammetry Chief, Div. of Coastal Surveys 1200