8879

Merritonikistis.

Cocca, Fla.

Diag. Cht. No. 1246

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey

Topographic

T-8879

Field No. Office No. T-8879

LOCALITY

State Florida

General locality East Coast

Locality Brevard County

CHIEF OF PARTY

G.E.Morris, Jr., Chief Of Field Party
R.A.Gilmore, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE June 18, 1950

B-1870-1 (L

DATA RECORD

T - 8879

Project No. (II): Ph-19(47)

Quadrangle Name (IV):

Field Office (II): Titusville, Florida

Chief of Party: George E. Morris, Jr.

Photogrammetric Office (III): Tampa, Florida

Officer-in-Charge: Ross A. Gilmore

Instructions dated (II) (III):

October 21, 1946

28, 1947 May

Copy filed in Division of Photogrammetry (IV)
Office Files

Method of Compilation (III):

Graphic (Radial Plot)

Manuscript Scale (III): 1: 20,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III):

Date received in Washington Office (IV): 5-2-49 Date reported to Nautical Chart Branch (IV): 5-5-49

Applied to Chart No.

Date:

Date registered (IV): 23 May 1950

Publication Scale (IV): 1.24,000

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): M5 L

Mean sea level except as follows: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Adjusted **MASSING SAN**

Plane Coordinates (IV):

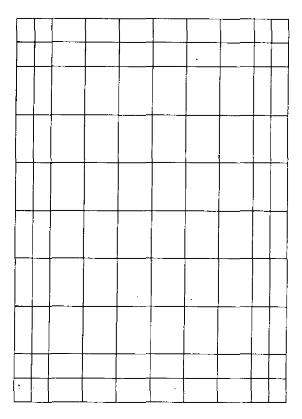
State: Florida Zone: East

Y= 1,452,480.17

x= 598,702.65

Roman numérals 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.



Areas contoured by various personnel
(Show name within area)
(II) (III)

DATA RECORD

L.F. Beugnet

Field Inspection by (II): John S. Winter

W.H. Nelson

Date: June-Oct. 1948

Planetable contouring by (II): John S. Winter

Date: July-Oct. 1948

Completion Surveys by (II): Tames E. Hundley

Date: July 1949

Mean High Water Location (III) (State date and method of location):

June Oct. 1948, Air Photo Compilation Aerial photographs, 12-8-47. Identified on photographs in field.

Projection and Grids ruled by (IV): $T \cdot L \cdot J \cdot$

Date: Feb. 3, 1948

Projection and Grids checked by (IV): T.L. J.

Date: Feb. 3, 1948

Control plotted by (III): B.F. Lampton

I.I. Saperstein

Date: July 1948 Aug. 1948

Control checked by (III): R.R. Wagner

B.F. Lampton

Date: July 1948

Aug. 1948

Radial Plot of Stores Copies

CONTRACTOR OF THE STATE OF THE

Date: Oct. 12, 1948

Planimetry

Stereoscopic Instrument compilation (III):

Contours

Date: Date:

Manuscript delineated by (III): R.A. Reece

Date: Dec. 1948-Mar.1949

Photogrammetric Office Review by (III): J.A. Giles

Date: March 1949

Elevations on Manuscript J.A. Giles (111)

March 1949 Date:

checked by (II) (III):

Single Lens, U.S. C. and G.S. Camera (kind or source) (III):

| | PHOTOGRAPHS (| (†11) | |
|---------|-------------------|---|----------------|
| Date | Time | Scale | Stage of Tide |
| 12-8-47 | 10:27 | 1:20,000 | No perceptible |
| H | 11:04 | tt - | t ide |
| 1j | 11:55 | ń | |
| 11 | 12:03 | ú | |
| If | 12:33 | Ħ | |
| | 12-8-47 " " | Date Time 12-8-47 10:27 11:04 11:55 11:03 | 12-8-47 |

Tide (III) |Ratio of | Mean | Spring Ranges Range

Reference Station:

Subordinate Station:

No perceptible tide

Subordinate Station:

E. H. Ramey Washington Office Review by (IV):

18 Jan 1950 Date:

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Date:

Date:

Proof Edit by (IV):

Date:

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

Shoreline (More than 200 meters to opposite shore) (III): 53

Shoreline (Less than 200 meters to opposite shore) (III): 10

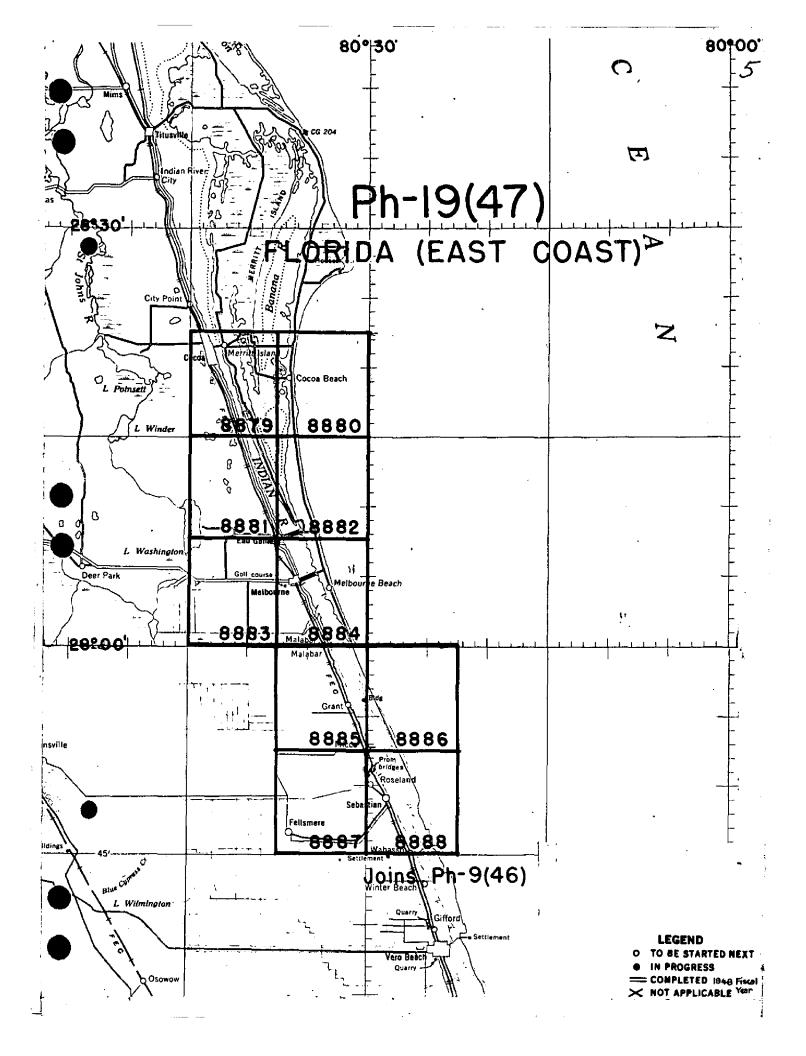
Control Leveling - Miles (#): 44.3

Number of Triangulation Stations searched for (II): 60

Recovered: 47.52 Identified: 27 Identified: 11

Number of Temporary Photo Hydro Stations established (III): \$\frac{\pi}{38}\$ (includes 24 Section & boundary mon.) Number of BMs searched for (II):

Remarks:



Summary to Accompany T-8879

Topographic map T-8879 is one of ten similar maps in Project Ph-19(47) and is located at the northwest corner of the project. It covers a portion of the Banana River, Indian River and the land adjacent. This is a graphic compilation project. The field operations preceding compilation included complete field inspection, the establishment of some additional horizontal control, and the delineation of contours on the photographs by planetable methods.

The manuscript was compiled at a scale of 1:20,000 and covers $7\frac{1}{2}$! in latitude by $7\frac{1}{2}$! in longitude. The entire map was field edited. The map is to be published by the U. S. Geological Survey at a scale of 1:24,000 as a standard topographic quadrangle. Items registered under T-8879 will include a cloth-mounted print of the manuscript at a scale of 1:20,000, a cloth-mounted color print at a scale of 1:24,000 and the original descriptive report.

FIELD INSPECTION REPORT

TO ACCOMPANY

QUADRANGLE T-8879

N28022130" - W80045100"

PROJECT PH-19(47)

25 OCTOBER 1948

1. DESCRIPTION OF THE AREA

This quadrangle is located in the central portion of Brevard County, Florida. It lies partly on the mainland and partly on Merritt Island. The quadrangle is bound on the east by the Banana River and Canaveral Peninsula, on the north by Lat.28°22'30", on the west by Long.80°45'00", and on the south by Lat.28°15'00".

The principal cultural features within the boundaries of the quadrangle are: Florida East Coast Railroad, U. S. Highway No.1, Florida State Highways Nos.3, 515 and 520, Indian River, Banana River, Newfound Harbor, the village of Georgiana, the major portion of the boundaries of the village of Merritt Island, the town of Rockledge and the city of Cocoa.

The terrain rises from natural water level in the Indian River to a height of about 50 ft. on the highest point on a broken sand ridge parallel to the west bank of the Indian River.

The existing vegetation consists of palmetto, scattered pines, scrub oak, palms, brush, mangrove, sawgrass and orchards. The growing of citrus fruits is the principal industry. The tourist trade, lumber, cattle and fishing also bring a sizable income.

2. COMPLETENESS OF FIELD INSPECTION

The field inspection, believed to be adequate, was done in accordance with Project Ph-19(47) Instructions dated 13 May 1948 and later general instructions.

3. INTERPRETATION OF THE PHOTOGRAPHS

Some photographs were slightly blurred in areas. Photograph No.47-J-533 was partially obscured by clouds. It is believed there are enough field inspection notes on the photographs to make them easily interpreted.

4. HORIZONTAL CONTROL

Horizontal control in this quadrangle consists of that established by the U.S.C.& G.S. and U.S.E.D. A thorough search was made for all stations in the quadrangle. Fifty-two (52) were recovered and twentyseven (27) identified on the photographs.

The only triangulation station used, other than U.S.C.& G.S. triangulation stations, was U.S.E.D. FAIRY 1939 on photograph 47-J-520.

5. VERTICAL CONTROL

Vertical control consisted of existing bench marks and establishment of level points along principal roads in the quadrangle.

Approximately 44.3 miles of 4th order levels (60 temporary bench marks established) were run by Mr. Wilber H. Nelson and Mr. John S. Winter, Engineering Aids. Recordings were to the nearest .01 of a foot. The maximum closure was .56 of a foot and all closures greater than 0.30 of a foot were adjusted throughout the line.

Vertical control used other than U.S.C.& G.S. were PRM-NAB(USED), FAIRY USED 1939 and RP1 USED.

6. CONTOURS AND DRAINAGE

Contouring was done by planetable methods on 1:20,000 scale single lens photographs. The contours, of five (5) foot intervals, were inked on the photographs in purple ink. All work was done as near the center of the photographs as possible to minimize distortion and scale changes. Notes were made to clarify the existence of contours too close to draw legibly as in ditches and along roads.

The Banana River, Indian River, and intermittent drainage into Lake Florence (west of the quadrengle) provide natural drainage for the area.

7. MEAN HIGH WATER LINE

There is no evident mean high water line along the Indian and Banana de Tim to Rivers. The apparent shoreline was indicated by Mr. Leo F. Beugnet, Engineering Aid.

8. LOW WATER LINE

The low water line closely parallels the mean high water line along the Indian and Banana Rivers due to the practically non-existence of tides.

9. WHARVES AND SHORELINE STRUCTURES

All wharves and shoreline structures have been indicated on the photographs by Mr. Leo F. Beugnet, Engineering Aid.

10. DETAILS OFFSHORE FROM HIGH WATER LINE

No details offshore for investigation by the hydrographic party were noted.

11. LANDMARKS AND AIDS TO NAVIGATION

Two (2) lights along the Intracoastal Waterway in the Indian River and two (2) daybeacons at the entrance to the Cocoa Yacht basin were identified and are recommended for charting.

Form 567 attached

12. HYDROGRAPHIC CONTROL

No hydrographic signals were required in this project.

13. LANDING FIELDS AND AERONAUTICAL AIDS

The Cocoa Municipal Airport is located in the northwest part of the See Itam 67 city of Cocoa and is identified on photograph No.47-J-468. The runways Itam 36 were outlined but no boundary marks were located, therefore, the boundaries have not been inked on the photographs.

14. ROAD CLASSIFICATION

All roads were classified in accordance with Photogrammetry Instructions No.10 and amendments thereto. Roads to be deleted are shown by cross marks in green ink.

15. BRIDGES

Clearances of all bridges over navigable waters were checked with the U. S. Engineers "List of Bridges Over Navigable Waters in the United States", revised to 1 July 1941. All clearances were carefully measured with a steel tape. The published descriptions and clearances were found to be correct except for the following discrepancies:

| | U.S.E.D. BRIDGE LIST | |
|-------------------------------------|---|------------------------------|
| TALE | ### HORIZONTAL CLEARANCE Left Center Right | VERTICAL CLEARANCE M.H.W. |
| Highway Bridge SW (Indian River) | 80.0 80.0 | 3.0 |
| Highway Bridge F (Sykes Creek) | 22.0 | M.L.W. 8.0 |

U.S.C.& G.S. MEASUREMENTS

TYPE HORIZONTAL CLEARANCE VERTICAL CLEARANCE
Left Center Right
M.H.W.

100 Services Sw 82.0 Services S

Highway Bridge F (Sykes Creek)

11.5

M.L.W. 8.0

The old bridge over the Banana River, east of Cocoa, has been removed. The clearances of the new bridge over the Banana River have been noted on the photograph.

Discrepancies will be reported in a special project report.

16. BUILDINGS AND STRUCTURES

See Stem 54

All buildings to be shown have been circled in red ink. Buildings to be deleted have been crossed out in green ink. New buildings have been blocked in approximately to scale.

17. BOUNDARY MONUMENTS AND LINES - See Item 52

Fifteen (15) section corners were recovered and identified on the photographs. Only one section corner was recovered on the town limits of Rockledge. No other monuments were found on boundary lines. * 2 monuments off manuscript. Forms 524 filed for 15. The boundaries of the city of Cocoa and the town of Rockledge follow, in general, the section lines and have been indicated on the photographs.

18. GEOGRAPHIC NAMES (S. R NO. 114)

All geographic names information was obtained by Mr. Lowell I. Bass, Engineering Aid. This information was compiled in a special report and forwarded to the Washington Office.

19. TOPOGRAPHIC STATIONS

A total of fifteen (15) topographic stations were established along the Indian and Banana Rivers. These consisted of permanent natural objects or standard topographic station monuments.

* See Item 68 for I previously established stations.

Flag 1948

Bird 1948

Lion 1948

Lion 1948

N.E. Corner of Garage, 1948

Itan 1948

Reno 1948

Cocca Yacht Basin Daybeacon 1, 1948

Jean 1948

" 2 1948

13 Forms 524

20. JUNCTIONS

A junction was made with quadrangle T-9173 to the north and quadrangle T-8881 to the south. The quadrangle line to the east fell in Banana River. All junctions are in good agreement. The western boundary coincides with the western limits of Project Ph-19(47).

Submitted by:

Engineering Aid.

Approved and forwarded:

George E/Morris, Jr.

Chief of Party

PHOTOGRAMMETRIC PLOT REPORT

This report for all of Project Ph-19(47), sheets T-8879 through T-8888, is filed in the General Files, Division of Photogrammetry.

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| MAP T-8879 | | PROJECT NO. Ph-19(47) | CT NO | Ph-1 | (47) | SCALE OF MAP 1:20,000 | 000, | SCALE FACTOR | JR |
|----------------------|-------------------------------------|-----------------------|------------|------------|--------------------------|--|-------------|--|--|
| STATION | SOURCE OF INFORMATION (INDEX) | ратим | LATITI | JDE OR " | LATITUDE OR V-COORDINATE | DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK) | DATUM | N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN WETERS FORWARD (BACK) | FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK) |
| TWO STORY BOAT- | G.Ps | N.A. | 280 | -22 | 16.995" | | | 523.2 (1323.8) | |
| HOUSE, FLAGFOLD 30.0 | F.505 | 1351 | 08 | 43 | 58.981 | 7 | | 1606.0 (27.7) | |
| WHITE FLAGPOLE ON | = | 2 | 87 | 22 | 04.718 | | | 145.2 (1701.8) | |
| | | : | 80 | 43 | 52,202 | 7 | | 1421.5 (212.3) | |
| COCOA MUN. W.T. | | ; | 87 | ส | 28,204 | | | J | |
| 1934 | P.564 | = | 80 | 43 | 52.761 | | | 1436.8 (197.1) | |
| HOU | | · ‡ | 82 | 27 | 29,290 | | | 901.7 (945.3) | |
| GABLE 19/40 | = | , | 80 | 43 | 38.675 | | | 1053.2 (580.7) | |
| ATE T | | | 28 | ಸ | 18,267 | | | 562.3 (1284.7) | |
| CHIMNEY, 1940 | = | = | 80 | 43 | 33.743 | | | 918.9 (715.0) | |
| COCOA, TOWN DOCK | : = | : = | 28 | 77 | 17,697 | | | 544.8 (1302.2) | |
| חייים בא חייים ב | - 1 | : | 80 | 43 | 24.485 | | | 666.8 (967.2) | |
| COCOA-MERRIT BRIDGE | G B " | = | 28 | ส | 19.557 | | | (1545.0) | |
| - |) = 1 | | 80 | 43 | 06.329 | | | 172.4 (1461.6) | |
| OLEANDER PT. 2 | | = | 83 | ಸ | 062.10 | | | (6°1621) 1°55 | |
| 13061 | F • 224 | : | 80 | 43 | 21,106 | 7 | | | |
| AIRWAY B. 18 | | | 28 | ผ | 36.739 | | | 1131.0 (716.0) | |
| (near Cocoa) 1934 | P.178 | = | 80 | 7 | 48.836 | 7 | | 1329.9 (304.0) | |
| X POLE | | | 88 | 20 | 29.701 | | | 914.3 (932.7) | |
| DOUR, LY40 | F • 204 | : | 88 | 43 | 188.60 | | | 269.2 (1365.0) | |
| MCKEOVAN, 1940 | | = | 28 | ଷ | 22,882 | | | 704.4 (1142.6) | |
| | P.551 | | 8 | 43 | 904.80 | > | | 229.0 (1405.2) | |
| BOATHOUSE STATE | 8 | | 88 | ଯ | 19,403 | | | 597.3 (1249.7) | |
| POIE, 1940 | P. 563 | II | 80 | 64 | 05.356 | | | 145.9 (1488.3) | |
| COMPUTED BY. E.C. An | Andrews | 40 | DATE APril | | 26, 1948 | CHECKED BY R.R. | R.R. Wagner | April 27, 1948 | 27, 1948 M-2388,12 |
| | | | | | | | | DAIE | |

Photogrammetry

Page 2 of 5

|)R | FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK) | | | | | | | | | | | | | M-2388-12 |
|------------------------|--|-----------------------------------|----------------------------------|-------------------------------------|-----------------------------------|----------------|----------------|-----------------|----------------|----------------|----------------------|---------------------------|---|----------------------|
| SCALE FACTOR | N.A. 1927 - DATUM DISTANCE FROM GRID ON PROJECTION LINE IN METERS FORWARD (BACK) | 899. | / C C | 1351.7 (695.9) | 1509.6 (337.4) | 1672.5 (174.5) | 1829.6 (17.4) | 1537.6 (309.4) | 132,9 (1502,4) | 156.2 (1690.8) | 334.0 (1513.0) | 306.9 (1540.1) | 1346.7 (500.3) 314.1 (1321.3) | |
| 000,00 | DATUM | | | | | | | | | | | | | |
| SCALE OF MAP 1: 20,000 | DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK) | | 7 | | | | . 2 | | 7 | 7 | 7 | 7 | | |
| -19(47) | LATITUDE OR U-COORDINATE LONGITUDE OR x-COORDINATE | 30.792 | | 37.394 | 1 | 54.332 | | | | | 5 10,851 9 51,795 | 8 7 | 2 A | • |
| PROJECT NO. Ph-19(47 | LATITUDE OR #-COO LONGITUDE OR *-COO | 28 20 | | 28 19 | 28 18 80 42 | 28 17 | 28 17 80 42 | 28 16 80 41 | 28 15 80 41 | 28 1.5 | 28 15 80 39 | 28 15 80 40 | 28 15 80 40 | |
| PROJEC | DATUM | N.A. 1927 | = | = | . = | = . | = | . = | = | = | = | = | = | |
| | SOURCE OF INFORMATION (INDEX) | G.Ps. P.563 | P. 563 | E P. 563 | P.563 | " P. 126 | н Р. 549 | " P.549 | = P.548 | " P•548 | " P. 548 | " P. 561 | K P. 561 | 1 |
| MAP T-8879 | STATION | INDIAN R. NORTH LT. 151 ' 1940 | INDIAN R. HOTEL S CUPOLA 1940 | TWO STORY BOATHOUSE E CABIE 1940 | GREEN ROOFED POAT-HOUSE SE CORNER | PRAIRIE, 1934 | GAST, 1940 | STEWART 2, 1906 | ALBERT, 1940 | STEW, J940 | LOTUS, J 1940 | INDIAN R N. LT. 155, 1940 | WHITE HOUSE ON DOCK RED ROOF SW CORNER 1940 | 1 FT.=.3048006 METER |

COMPUTED BY. E.C. Andrews

DATE APril 26, 1948

CHECKED BY R.R. Wagner

DATE APTI 28, 1948

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Page 🚅 of /5

| P.562 N.4. LATTUDE OR *-COORDINATE DISTANCE FROM GRID IN FEET. DATUM LONGITUDE OR *-COORDINATE CORPOSECTION LINE IN METERS CONNECTION LINE IN METERS CONNE | MAP T. 8879 | PROJECT NO. Ph-19(47) | CT NC | Ph-1 | (24) | SCALE OF MAPL: 20,000 | 000 | SCALE FACTOR |)R |
|--|----------------------------|-----------------------|-------|---------|------------------------------|---|-------|---|--|
| 5.6 N.4. 28 15 48.038 1478.8 (3) 56.1 1927 80 39 57.229 1559.9 (1) 62 " 28 17 09.50 292.4 (1) 48 " 28 17 11.417 222.4 (1) 49 " 28 17 11.417 1083.6 (1) 49 " 28 18 36.856 1083.6 (1) 49 " 28 18 36.856 1083.6 (1) 49 " 28 18 36.856 1083.6 (1) 49 " 28 18 36.8792 1083.6 (1) 49 " 28 19 45.370 1080.6 (1) 54 " 28 19 55.277 1080.6 (1) 63 " 14.5.20 172.2 (1) 1726.9 (1) 63 " 14.5.20 172.2 (1) 1726.9 (1) 60 " 14.5.20 10.03.994 <td< td=""><td>OURCE FORMAT (INDEX)</td><td></td><td>LATI</td><td>TUDE OR</td><td>V-COORDINATE X-COORDINATE</td><td>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)</td><td>DATUM</td><td>FROM GRID OR PROJECTION LINE IN METERS FORWARD (RACK)</td><td>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORMARD RACKY</td></td<> | OURCE FORMAT (INDEX) | | LATI | TUDE OR | V-COORDINATE X-COORDINATE | DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK) | DATUM | FROM GRID OR PROJECTION LINE IN METERS FORWARD (RACK) | FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORMARD RACKY |
| 561 1927 80 39 57.229 1559.9 (1) 62 " 28 17 09.50 292.4 (1) 48 " 28 17 11.417 1083.6 (1) 49 " 28 19 11.417 1083.6 (1) 49 " 28 18 36.836 1134.5 (7) 49 " 28 18 36.836 1134.5 (7) 49 " 28 18 36.876 7 1083.6 (1) 54 " 28 19 45.370 7 560.0 (10 54 " 28 19 45.370 7 1396.6 (1) 62 " 28 19 55.100 7 967.0 (6) 63 " 11.45.20 7 967.0 (6) 1608.6 (1) 63 " 11.45.20 7 121.26.9 (1) 160.1 (1) 50 " 28 20 14.77.9 160.25.6 <td< td=""><td>G.Ps.</td><td>╫</td><td>28</td><td>15</td><td>48.038</td><td></td><td></td><td>36</td><td>ļ</td></td<> | G.Ps. | ╫ | 28 | 15 | 48.038 | | | 36 | ļ |
| 48 " 28 17 09,50 815.3 (EB 48 " 28 17 11,417 351.4 (LL 49 " 28 17 11,417 1083.6 (LL 49 " 28 18 36.856 7 1134.5 (LL 49 " 28 18 36.8792 7 1134.5 (LL 54 " 28 18 28.7792 7 1390.6 (LL 54 " 28 19 45.370 7 600.0 (LL 549 " 28 19 45.277 7 967.0 (CL 50 " 28 19 55.10 7 1390.6 (LL 1390.6 (LL 63 " 28 19 56.10 7 967.0 (CL 1003.6 (LL 1126.3 (LL 1126.3 (LL 1126.3 (LL 1126.4 (LL | | | 8 | 39 | 57.229 | | | 1559.9 (75.5) | |
| 48 80 40 29.92 815.3 (e) 48 80 40 39.765 // // 11.417 351.4 (14) | = 1 | | 28 | 17 | 09.50 | | | 292.4 (1554.6) | |
| 48 " 28 17 11.417 11.417 1083.6 (7) 49 80 40 39.765 \(\begin{array}{c} \) \(\begin{array}{ | F • 204 | _ | 80 | 07 | 26.92 | | | 815.3 (819.7) | |
| 48 80 40 39.765 \$\scrime{\chi}\$ 1083.6 (?) 49 80 41 14.020 \$\scrime{\chi}\$ 1134.5 (?) 49 80 41 14.020 \$\scrime{\chi}\$ 180.048 (?) 54 80 41 22.245 \$\scrime{\chi}\$ 1809.8 (?) 549 80 41 35.500 \$\scrime{\chi}\$ 1396.6 (?) 62 80 41 41.275 \$\scrime{\chi}\$ 1124.3 (?) 63 80 41 45.20 \$\scrime{\chi}\$ 1124.3 (?) 63 80 41 45.20 \$\scrime{\chi}\$ 1124.3 (?) 63 80 41 45.20 \$\scrime{\chi}\$ 1124.3 (?) 60 80 41 45.20 \$\scrime{\chi}\$ 1124.3 (?) 60 80 40 50.112 \$\scrime{\chi}\$ 1124.3 (?) 60 80 40 50.112 \$\scrime{\chi}\$ 11469.7 (?) 60 80 41 | | | 28 | 17 | 11.417 | | | 351.4 (1495.6) | |
| 18 28 18 36.856 1134.5 (7 1134 | P • 548 | _ | 80 | 07 | 39.765 | 7 | | 1083.6 (551.4) | |
| 49 80 41 14,020 7 382.0 (12 54 80 41 22.245 7 1809.8 (12) 54 80 41 22.245 7 606.0 (10) 549 80 41 35.500 7 967.0 (6) 62 80 41 41.275 1608.6 (2) 63 80 41 45.20 1124.3 (2) 50 80 40 59.112 7 1454.1 (13) 50 80 40 59.112 7 1469.7 (2) 50 80 40 59.112 7 1469.7 (2) 50 80 40 69.112 7 1469.7 (2) 50 80 40 03.994 7 1469.7 (2) 60 80 41 01.121 7 1469.7 (2) 80 41 01.121 7 1469.7 (2) 30.5 (14) 80 41 01.122 7 1469.7 (2) | | | 28 | 18 | 36.856 | | | 1134.5 (712.5) | |
| 189,8 (18 58,792 1809,8 (180,0 | P.545 | | 80 | 14 | 14,020 | 7 | | 382.0 (1252.7) | |
| 54 80 41 22.245 \rangle 606.0 (10 549 8 19 45.370 \rangle 1396.6 (1) 62 80 41 35.500 \rangle 967.0 (6) 62 80 41 41.275 1608.6 (2) 63 80 41 45.20 1124.3 (2) 63 80 41 45.20 1124.3 (2) 50 80 40 59.112 454.1 (1) 50 80 40 59.112 1610.1 (1) 50 80 40 39.56 168.8 (1) 50 80 40 39.94 \rangle 108.8 (1) 63 80 41 01.121 \rangle 1469.7 (3) 60 80 41 01.121 \rangle 1469.7 (3) 80 41 01.22 \rangle 1469.7 (3) 80 41 01.22 \rangle 1468.7 (3) | · | = | 28 | 18 | 58.792 | | | 1809.8 (37.2) | |
| " 28 19 45.370 | P-551 | + | 80 | ۲† | 22.245 | 7 | ! | (9°8001) 0°909 | |
| 549 80 41 35,500 \rangle 967.0 (6 62. 80 41 41,275 1608.6 (2 63 80 41 45,20 1124.3 (5) 63 80 41 45,20 1726.9 (1) 50 80 40 59,112 1231.2 (4) 50 80 40 59,112 1610.1 (7) 60 80 40 03,994 \rangle 1469.7 (3) 60 80 41 01,121 \rangle 1469.7 (3) 80 40 10,121 \rangle 1469.7 (3) 80 41 01,121 \rangle 1469.7 (3) 80 41 01,122 \rangle 1469.7 (3) | = | # | 28 | 19 | 045.370 | | 9 | 1 | |
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MAP T. 8879 PROJECT NO. Ph-19(47) SCALE OF MAP 1: 20,000 SCALE FACTOR ____

Page 4 of 5

| | | | ,] | | | | | 00.01.11.00 | |
|------------------|-------------------------------------|----------|-----------------|----------|--------------------------|---|----------|--|--|
| STATION | SOURCE OF INFORMATION (INDEX) | DATUM | LATITI | JDE OR " | LATITUDE OR y.COORDINATE | DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK) | DATUM | N.A. 1927 - DATUM DISTANCE FROM GRID ON PROJECTION LINE IN METERS FORWARD (BACK) | FACTOR DISTANCE FROM GRID OR PROJECTION LIN IN METERS FORWARD (BACK) |
| VIERTY, 1940 | G.Ps. | N.A. | 88 | 8 | 48.571 | | | 1495.2 (351.8) | |
| | P.550 | 1927 | 80 | 142 | 14.461 | | | 393.8 (1240.3) | |
| CAUSE, 1940 | # 1 | ນ | 28 | น | 23.199 | | | 714.1 (1132.9) | |
| | | | 80 | 07 | 23.935 | | | 651.8 (982.2) | |
| HARBOR, 1940 | 11 (| # | 28 | 22 | 15,323 | | | 471.7 (1375.3) | |
| | | | 80 | 70. | 20.719 | | | (9.6901) [1.495 | |
| LAND, 1940 | = | = | 28 | 21 | 960*85 | | | 1788.4 (58.6) | |
| , | | | 80 | 41 | 10,832 | | | 295.0 (1338.8) | |
| N.A.C. (USE) | | | 28 | 22 | 15.882 | | | 488.9 (1358.1) | |
| 1940 | P.554 | = | <u>چ</u> | 1,2 | 46.659 | > | | 1270.5 (363.3) | |
| FAIR, 1940 | = | = | 28 | 22 | 10,924 | | | 336.3 (1510.7) | |
| | P.551 | | 80 | 42 | 44.264 | | | 1205.3 (428.5) | |
| BOATSHOP METAL | | | 28 | ಸ | 27.240 | | | 838.5 (1008.5) | |
| RF.W.G. 1940 | D P.565 | = | 80 | 745 | 28.379 | | | 772.8 (861.1) | |
| BREVARD HOTEL | 795 0 | | 28 | 21 | 01.913 | | | 58.9 (1788.1) | |
| | | , | 80 | 43 | 23.082 | | | 628.6 (1005.5) | |
| COQUINA, 1876 | | : | 82 | 19 | 22.711 | | | (6.7411) 1.969 | |
| | P.549 | = | 80 | 7175 | 38.815 | | | 1057.4 (577.2) | |
| DRIVE, 1940 | | : | 28 | ĸ | 284.482 | - | | 1677.2 (169.8) | |
| | P.551 | = | 89 | 64 | 53.987 | | | (0.491 (1.0741 | |
| TANK, (1.7 miles | | | 82 | ส | 54.81 | | | 1687 (160) | |
| 1934 1934 | P. 178 | = | 80 | 45 | 22.57 | | | (201) 285 | |
| SMALL BOAT HOUSE | | .= | 88 | 19 | 05.071 | | | 156.1 (1690.9) | |
| יייי בארוויייי | r.505) | | 80 | 77 | 34-353 | | | 235.9 (698.7) | |
| COMPUTED BY: | Andrews | DA | DATE AUGUST 11, | 18t 11 | 3,1948 | CHECKED BY. B.F. L | Lampton, | Jr. August | 11, 1948 M.2388-12 |
| | | | | | | 1 | | | |

PROJECT NOPh-19(47)

SCALE OF MAP 1: 20,000

SCALE FACTOR

Page 5, of 5

DISTANCE FACTOR DISTANCE FROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LIN IN METERS (BACK) FORWARD (165.47) 87.88 (2960,13) (13%6.3) 2408.8) (17.6 2812.1 791.9 (1055.1) (4.848) (BACK) 1821.1 (25.9) 485.5 (1149.8) N.A. 1927 - DATUM 2882.54 124.7 235.9 639.3 FORWARD 786.0 18293 DATUM OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET, 542.87) 288.31 (9,711.69) 2,097.28 (7,902.72) 773.82 (9,226.18) (BACK) FORWARD 9,457.13 (59.427 LONGITUDE OR x-COORDINATE LATITUDE OR y-COORDINATE 14.965 45.601 25.725" 28.855 59,160 17.813 1,452,097.28 570,773.82 1,460,288.31 559,457.13 191 44 33 40 53 15 စ္တ 8 8 8 828 828 DATUM N.A. 1927 ÷ ¥ = = F = SOURCE OF 1935 P. C. G.P. 15 P. 554 OFFICE Comp. (INDEX) USE LAKE FLORENCE P. 1C. 1935 P. 53 Card **2,** 1929 7 1940 MAP T. 8879 BULLOCK R M 2, 6861 FAR A. 1940 USE STATION × POINSETT, BRIDGE R FAIRY

COMPUTED BY I.I. Saperstein 1 FT. = 3048006 METER

DATE AUGUST 11, 1948

CHECKED BY: B.E. Lampton, Jr.

DATE August 11, 1948

M-2368-12

26 AND 27. CONTROL AND RADIAL PLOT:

A special report on these items was prepared by M.M. Slavney, Photogrammetric Engineer, and submitted to the Washington Office on December 7, 1948.

Filed in Div of Photogrammetry

28. DELINEATION:

The detail was delineated from 1: 20,000 scale single-lens ratio prints. For the most part they were clear and of good scale and furnished adequate coverage for cutting in detail points and delineation.

Field inspection was adequate for delineation of this map manuscript except in some instances. Where discrepancies arose they were noted on the discrepancy overlay.

Contours were altered slightly in some cases to conform to the drainage. Insofar as possible, contours along ditches and spoil banks have been delineated according to Photogrammetry Instructions No. 32 issued after the completion of field inspection.

Field inspection and classification of vegetation was also completed before Photogrammetry Instructions No. 21 were issued. Vegetation on this manuscript has been classified according to these latest instructions by the compiler and should be checked by the field editor.

per item 55

All buildings within the town of Cocoa were delineated as no urban limts were designated by the field inspector. It is believed by the compiler that this town is of sufficient size to have urban limits.

29. SUPPLEMENTAL DATA:

Indexed street map of Cocoa and Rockledge, Florida, published and copyrighted by Frank B. Dolph, Fort Lauderdale, Florida.

Filed in Div. of Photogrammetry

30 AND 31. MEAN HIGH-WATER, LOW-WATER AND SHOAL LINES:

Delineated in accordance with field inspector's notes.

There is no perceptible tide in this quadrangle.

Shallow areas were shown with a dashed line on the east side of Lines removed Merritt Island and Horti Point.

Suring review to

during review to agree with hydrography.

32. DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

There are no offshore details requiring further investigation by the hydrographic party.

33. WHARVES AND SHOREL INESTRUCTURES:

Delineated according to field inspector's notes.

34. LANDMARKS AND AIDS TO NAVIGATION:

Four nonfloating aids were established from theodolite cuts and Form 567, giving their scaled positions, is submitted as a part of this report.

Three landmarks recommended for charting by the field inspector have been shown on the map manuscript and Form 567 submitted accord-See Stem 51 ingly.

35. HYDROGRAPHIC CONTROL:

None required.

36. LANDING FIELDS AND AERCNAUTICAL AIDS:

One landing field, the Cocoa Municipal Airport, is located in the northwest corner of this quadrangle.

Airway Beacon No. 18 is the only aeronautical aid within the limits of this quadrangle. Its position has been previously established by triangulation.

37. SECTION AND PRECINCT LINES:

Thirteen section corners within the limits of this quadrangle were recovered by the field inspector. Two other section corners fall outside the project limits.

Most of the section corners were located by the photo point method. Here It was impossible for the compiler to locate such section corners with the desired accuracy because the points were too close together.

Six precincts in whole or in part fall within this quadrangle as follows: 21A & B, 4, 5, 9, 10 and 11.

Section and precinct lines that are felt to be in their proper position are shown on the map manuscript in red acetate ink. Those that are more or less doubtful are shown on an ozalid print and will be inked on the map manuscript after verification by the field editor.

See item 52 Field Edit Pyll

General Land Office plats were used to help construct the section lines where corners were not recovered.

The entire area of this quadrangle falls within Brevard County.

38. GEOGRAPHIC NAMES:

All geographic names submitted have been applied to the map Approved list attached EHR manuscript.

COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

There are no topographic quadrangles available in this office for comparison.

A comparison was made with Planimetric Maps 4556 and 4532 which were compiled by the U.S. Coast and Geodetic Survey in 1930 at 1: 20,000 scale. They were found to be in good agreement except for changes in cultural detail and some of the marsh areas which are now ponds. Shorelines have not changed to any great degree. A causeway and Florida State Highway 520 have been added; other roads and buildings have been added, bulkheads built, etc.

COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 844, bearing a print date of June 21, 1948, scale 1: 40,000. This chart is in good agreement with the map manuscript. Areas shown primarily as marsh around Cocoa and Rockledge on the chart are interpreted by the compiler as intermittent ponds, ponds and marsh.

A comparison was also made with chart 1246 bearing a print date. of December 15, 1947, scale 1: 80,000. In general, they are in good agreement. A bridge on south end of Horti Point to Coaoa Beach is now destroyed.

Respectfully submitted

Richard A. Reece,

Photogrammetric Aid

Approved and Forwarded:

Ross A. Gilmore, #/23/49

Chief of Party.

The field edit of this quadrangle was accomplished in compliance with Field Edit Instructions dated August 24, 1945 and Supplement I dated February 4, 1946. Actual field work was started July 13, 1949 and completed July 27, 1949.

46. METHODS:

Field edit was accomplished by traversing, via truck, all passable roads; and by walking to other areas in which the reviewer requested information, or for a general check on the adequacy of the map compilation.

Planetable, hand level, sextant and tape methods were used to make corrections and additions not shown on the photographs.

On the field edit sheet red ink was used to show corrections and additions; green ink for deletions. On the discrepancy print violet ink was used to indicate corrections and green ink for deletions. Black ink was used for all work on the photographs.

The reviewer's questions are answered on the discrepancy prints whenever possible. Other work was shown on the field edit sheet or photographs. All work shown on the photographs is properly referenced on the discrepancy prints on field edit sheet.

47: ADEQUACY OF COMPILATION:

The map compilation is believed to be adequate with the corrections added by the field editor:

48. ACCURACY TESTS:

No accuracy tests were required for this quadrangle. The map is believed to comply with standard horizontal and vertical accuracy specifications. Information concerning the two nearest map accuracy test was not available.

49. TOPOGRAPHIC EXPRESSION:

The topographic expression of the quadrangle is considered adequate.

50. HORIZONTAL CONTROL:

Form 526 is submitted for three triangulation stations about which the reviewer requested special information.

51. LANDMARKS FOR CHARTS:

One landmark: previously recommended for charting is being recommended for deletion; more prominent object is being recommended for charting in its stead. One correction, regarding height of landmark has been made. Form 567 is submitted. Form 524 filed.

52. BOUNDARY MONUMENTS AND SECTION LINES:

Two boundary monuments and several points on section lines were recovered, identified on the photographs, and Form 524 submitted. * seven points EHR

53. ROADS:

All roads in this area have been inspected by the field editor and classified in compliance with strict interpretation of Photogrammetry Instructions No. 10, dated April 14, 1947 and amendment dated October Protogr. Instr. #10,29421 24, 1947. filed in Div. Photogr. Office Files.

54. BUILDINGS:

All buildings have been classified in compliance with Photogrammetry Instructions No. 29, dated October 1, 1948.

55. WOODLAND COVER:

All woodland cover has been classified in compliance with Photogrammetry Instructions No. 21, dated August 18, 1948.

56. EXAMINATION OF PROOF COPY:

It is believed that Carl A. Schnabel of Cocoa, Florida, registered land surveyor and engineer for Cocoa-Rockledge, is best qualified to examine a proof copy of this quadrangle.

> Respectfully submitted August 1, 1949

James E. Hundley // Cartographer (Photo)

porowed and forwarded:

Ross A. Gilmore

Chief of Party.

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COMMERCE U. S. COAST AND GEODETIC SURVEY DEPARTMENT

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Cocoa, Florida

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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.

23

- COMMERCE U. S. COAST AND GEODETIC SURVEY DEPARTMI

August 1,

| ARKS FOR CHARTS | Cocoa, Florida |
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Ross A. Gilmore Tampa Photogrammetric Office The positions given have been checked after listing by

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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 **DEPARTM**(

BESTELLENGAMINGSTOFF LANDMARKS FOR CHARTS

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August 1,

Cocoa, Florida

from seaward to determine their value as landmarks be the following objects which have (2) that (recommend charted on

The positions given have been checked after listing by ctuant the charts indicated.

Chief of Party. sa A. Gilmore Tampa Photogrammetric Office

844 OLLEHOUE CHYE INCHORE CHART HARDOR CHART LOCATION 1949 DATE METHOD OF LOCATION AND SURVEY Airphote T-8879 DATUM N.A. 1927 D. P. METERS 187 LONGITUDE • 9 POSITION 8 D. M. METERS 35 LATITUDE 28 17 . . SIGNAL SKREENON STEEL TOWER, 58 feet high HHITE STEEL TANK, ATOP 4-legged S24 DESCRIPTION (anthores CHARTING NAME (ELE) STATE TANK

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 Information under each column heading should be given. individual field survey sheets.

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DEPARTMENT C COMMERCE
U. S. COAST AND GEODETIC SURVEY

/NOWHIGHTING HINS FOR CHARTS

Cocos, Florida

I recommend that the following objects which have (4444 441) been inspected from seaward to determine their value as landmarks be charted on (4444 1444 1444 the charts indicated.

The positions given have been checked after listing by AMLO SARLO 7억 母白 内宫4年7年的

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| CHARTING NAME | DESCRIPTION | SIGNAL | - 0 | D.M.METERS | 0 | D.P.METERS | ратим | BURVEY No. | LOCATION | OKEK! HENTO | |
| TANK (Eley) | Aluminum color, cylindrical steel tower tank atop 100 ft. skeleton steel tower | | 28 21 | 868.2 | 80 43 | 78 43541 54 08 | NA . 1927 | Trieng- uletion | 1934 | . H | भग |
| | | | | | · | | | | | | |
| TANK (Eley) | White wooden tank atop a 50 ft. akeleton ateal tower. | | 28 17 | 292. h | OH 08 | 815.3 | = | e . | 046T | H | . भग8 |
| | 1 <i>47</i> 8 | נישננט | | | | | | | | | |
| TANK (Eley) | White tank, red roof, atop a 70.ft. skeleton steel tower, | | 28 15 | 28 15 1478,8 80 | E0 39 | 1559.9 | , с | = | о ц 61 | K | त्त्रश्च |
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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.

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Review Report T-8879 Topographic Map 18 January 1950

62. Comparison with Registered Topographic Surveys:

| T-1435 | 1:20,000 | 1876 |
|---------|----------|---------|
| T-1450b | 1:20,000 | 1876-77 |
| T-4532 | 1:20,000 | 1928 |
| Т-4556 | 1:20,000 | 1928 |
| T-4442b | 1:20,000 | 1929 |

This survey supersedes these prior surveys for nautical charting purposes for the area of this map.

- 63. Comparison with Maps of Other Agencies: None
- 64. Comparison with Contemporary Hydrographic Surveys: None
- 65. Comparison with Nautical Charts:

| 844 | 1:40,000 | 48 | - | 6/21 |
|------|----------|----|---|------|
| 1246 | 1:80,000 | 49 | | 4/4 |

- 66. Adequacy of Results and Future Surveys: This map meets the National Standards of Map Accuracy and complies with project instructions.
- 67. Landing Fields and Aeronautical Aids: -According to information furnished by field edit, Cocoa Municipal Airport is an open field with no marked runways.
- 68. Landmarks and Aids to Navigation:-Indian River North Light No. 151 and Indian River North Light No. 155 were previously located by triangulation (1940). Form 567 gives positions of these aids as determined by triangulation.
- 69. Section Lines:-Positions of section corners may have small errors resulting from the method of location but they do meet the accuracy requirement for map features in general. A statement regarding accuracy is included on Forms 524 for these stations.
- 70. Mean High Water Line: Fast land borders portions of the Indian River and the Banana River and the shoreline is classified accordingly.

71. Boundaries:

The corporate limits of the City of Rockledge and the City of Cocoa were compiled during the review of the manuscript, using the boundary descriptions and the data sub-mitted by field inspection and field edit. The limits in the Indian River were compiled by holding to the channel. a part as given by the Nautical Chart Branch (See enclosed report) and a part as interpreted from the photographs.

Reviewed by:

Approved by:

Division of Photogrammetry

Chief, Nautical Chart Branch

Division of Charts

Bleade

HISTORY OF HYDROGRAPHIC INFORMATION

T-8879, Florida

Hydrography was compiled for this quadrangle in accordance with Division of Photogrammetry request of January 24, 1950; and with general specifications of May 18, 1949.

The depths are in feet at mean low water, and originate with the following surveys and charts:

H-1293 (1876) 1:20,000 (1876-77)H-1380 1:20,000 1:20,000 (1878) H-1415b (1945) 1:10,000 (U.S.E.) BP. 39926 1:40,000, printed Oct. 24, 1949, Chart 844 corrected Feb. 6, 1950. Chart 1246 1:80,000, printed Apr. 4, 1949, corrected Feb. 6, 1950.

The depth curves are drawn at 6 and 12 feet.

The hydrography was compiled by R. E. Elkins and checked by G. F. Jordan.

R. E. Elkins - 2/15/50 Nautical Chart Branch