## DESCRiptive REPORT

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>TOPOGRAPHIC</th>
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<tbody>
<tr>
<td>Field No.</td>
<td>T-9173</td>
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<tr>
<td>Office No.</td>
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## LocaliTy

<table>
<thead>
<tr>
<th>State</th>
<th>FLORIDA</th>
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<tbody>
<tr>
<td>General locality</td>
<td>EAST COAST</td>
</tr>
<tr>
<td>Locality</td>
<td>BREVARD COUNTY</td>
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- **1948-49**

## Chief of Party

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

## Library & Archives

**Date:** Aug 8, 1950
DATA RECORD

T - 9173

Project No. (II): Ph-30(48)  Quadrangle Name (IV):

Photogrammetric Office (III): Tampa, Fla.  Officer-in-Charge: Ross A. Gilmore
Instructions dated (II) (III): July 13, 1948  Copy filed in Division of
                              Photogrammetry (IV)  Office Files

Method of Compilation (III): Graphic
Manuscript Scale (III): 1:20,000  Stereoscopic Plotting Instrument Scale (III):
Scale Factor (III): None
Date received in Washington Office (IV): 6-6-49  Date reported to Nautical Chart Branch (IV):
Applied to Chart No.  Date:  Date registered (IV): 7-14-50
Publication Scale (IV): 1:24,000  Publication date (IV):
Geographic Datum (III): N.A. 1927  Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (3) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): PORCHER, 1940

Lat.: 28° 27' 20.498 (646.4 meters): 80° 43' 11.997 (326.4 meters)  Adjusted

Plane Coordinates (IV):

Y = 14,984,735.58
X = 589,972.37

State: Florida  Zone: East

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.
Areas contoured by various personnel

(Show name within area)

(I) (II)
DATA RECORD

Field Inspection by (II): W.F. Therkildson & L.F. Beugnet  
Date: Aug-Oct. 1948

Planetable contouring by (II): W.F. Therkildson & L.F. Beugnet  
Date: Aug-Oct. 1948

Completion Surveys by (II): James E. Hundley  
Date: Aug 1949

Mean High Water Location (III) (State date and method of location): Air Photo Compilation
Sept-Oct. 1948 Same as date of photographs. Shoreline identified on photographs.

Projection and Grids ruled by (IV): WFW  
Date: 25 Oct 1948

Projection and Grids checked by (IV): WFW  
Date: 25 Oct 1948

Control plotted by (III): P.R. Wagner  
Date: Nov. 4, 1948

Control checked by (III): B.F. Lampton  
Date: Nov. 10, 1948

Radial Photogrammetry  
Planimetry

Stereoscopic Instrument compilation (III): M.M. Slavney  
Contours

Manuscript delineated by (III): R. Dossett  
Date: Feb-Mar., 1949

Photogrammetric Office Review by (III): J.A. Giles  
Date: April, 1949

Elevations on Manuscript checked by (II) (III): J.A. Giles (III)  
Date: April, 1949
**PHOTOGRAPHS (III)**

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<td>1: 20,000</td>
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<td>48J-136</td>
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<td>48J-552</td>
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<td>48J-553</td>
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<td>48J-560</td>
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**Reference Station:**
No tide

**Washington Office Review by (IV):**
Everett H. Ramey
Date: 24 Feb 1950

**Land Area (Sq. Statute Miles) (III):** 38.6

**Shoreline (More than 200 meters to opposite shore) (III):** 9.3

**Shoreline (Less than 200 meters to opposite shore) (III):** 7.7

**Control Leveling - Miles (II):** 32

**Number of Triangulation Stations searched for (II):** 22
**Recovered:** 15
**Identified:** 9

**Number of BMs searched for (II):** None
**Recovered:** None
**Identified:** None

**Number of Recoverable Photo Stations established (III):** 32
**Number of Temporary Photo Hydro Stations established (III):** None

**Remarks:**

* Photographs: The following photographs fall within the area of T-9173 and were used for field inspection. (Item 2)
  47J 524 to 47J 527 8 Dec'47 1156 to 1202 at 1:20,000
  47J 528 to 47J 533

**Number includes:** 9 section monuments (Form 524)
  1. Triangulation station azimuth mark
  22 topo. & 524. (Form 524)
  20 obstructions (Form 567)
Summary to Accompany T-9173

Topographic map T-9173 is one of fourteen similar maps in Project Ph-30(48) and is located at the south limit of the project. It covers a portion of Merritt Island, adjacent areas of the Banana River and Indian River, and a small land area on the opposite side of the Indian River. 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 planimetric methods.

The manuscript was compiled at a scale of 1:20,000 and covers 7.5' in latitude by 7.5' 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-9173 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-9173
N28°30'0" - W80°45'10"/7.5
PROJECT PH-30(48)
20 OCTOBER 1948

1. DESCRIPTION OF THE AREA

This 7½ minute quadrangle lies entirely on Merritt Island, with the exception of the southwest corner, in the eastern central portion of Brevard County, Florida. It is bound on the north by Lat. 28°30'0", on the east by Banana River, on the south by Lat. 28°22'10"0", and on the west by Indian River and Long. 80°45'10".

The principal cultural features in the quadrangle are the Indian and Banana Rivers and Florida State Highway 3. U. S. Highway No.1 and the Florida East Coast Railroad traverse that portion of the quadrangle lying west of the Indian River. A small part of the city of Cocoa lies within the quadrangle.

The terrain rises from normal water level in the Indian and Banana Rivers to 35 ft. on the highest point of a ridge just east of U. S. Highway No.1 in the southwest section of the quadrangle.

The vegetation consists mainly of scattered pine and palmetto on the high ground and prickle grass, palms, and mangrove on the lowlands near the Indian and Banana Rivers. There are many citrus groves along the shores of the Indian River both on Merritt Island and on the mainland. The growing of citrus is the main industry. Some commercial fishing is done.

2. COMPLETENESS OF FIELD INSPECTION

The field inspection, believed to be adequate, was done in accordance with Project Ph-9(46) Instructions dated 28 May 1947 and later general instructions. All field inspection notes are shown on single lens photographs Nos. 47-J-524 print 2 of 2, 47-J-525 print 2 of 2, 47-J-526 print 2 of 2, 47-J-529, 47-J-557, 48-J-106, 48-J-135 print 2 of 2, 48-J-136, 48-J-553, 48-J-556, 48-J-555 and 48-J-560 print 2 of 2.

3. INTERPRETATION OF THE PHOTOGRAPHS

The photographs for the most part are clear and with numerous field inspection notes it is believed that all photographic tones can easily be interpreted.
4. **HORIZONTAL CONTROL**

A thorough search was made for all stations within the limits of this quadrangle. A total of seven (7) U.S.C.& G.S. and two (2) U.S.G.S. triangulation stations (MB USE 1931, RD USE 1931) were recovered and identified on the photographs.

Two new reference marks were established at triangulation station MAGNOLIA 1940.

5. **VERTICAL CONTROL**

A search was made for all bench marks within the limits of this quadrangle. None were recovered.

Thirty two (32) miles of 4th order levels (55 temporary bench marks established) were run from 1st order U.S.C.& G.S. bench mark X 32 and 4th order level lines which had been tied in with existing control in other quadrangles. All level lines closed within the allowable error for 4th order levels. The maximum closure being 0.24 of a foot. No lines were adjusted.

6. **CONTOURS AND DRAINAGE**

All contouring was done by planestable methods on prints No.1 of single lens photographs Nos. 47-J-524, 47-J-525, 47-J-526, 48-J-560, 48-J-135, or on single lens photographs 47-J-530, 47-J-531, 47-J-532, 48-J-106 and 48-J-556 of which there is but one copy. All planestable traverses of three set-ups or more were tied back to level points with a closure of 0.5 ft. or less.

There are no flowing streams in the quadrangle other than the Indian and Banana Rivers.

7. **MEAN HIGH WATER LINE**

Along the shores of the Banana River and the east bank of the Indian River there is no definite shoreline, therefore, it has been indicated as apparent shoreline. Along the west shore of the Indian River the shoreline has been indicated at intervals.

8. **LOW WATER LINE**

There is no evident low water line along the shores of either the Indian and Banana Rivers. Tides are practically non-existent, the only change in water elevation being caused by wind or excessive rain.
9. WHARVES AND SHORELINE STRUCTURES

All wharves and shoreline structures have been indicated on the photographs.

10. DETAILS OFFSHORE FROM HIGH WATER LINE

No details offshore for investigation by the hydrographic party were noted. See Item 32

11. LANDMARKS AND AIDS TO NAVIGATION

Two (2) range lights in the Indian River were identified and indicated for pricking on the photographs. These lights were not pricked, since the prick point would obscure them it was thought more feasible to leave them visible.

Eleven (11) daybeacons in Indian River were identified by Mr. Leo F. Beugnet, Engineering Aid, and a list of directions for each is submitted. See Items 34 & 46.

12. HYDROGRAPHIC CONTROL

No hydrographic control signals were required in this project.

13. LANDING FIELDS AND AERONAUTICAL AIDS

There are no landing fields or aeronautical aids within this quadrangle.

14. ROAD CLASSIFICATION

All roads in this area have been classified in accordance with Photogrammetry Instructions No. 10 and amendment dated 24 October 1947.

15. BRIDGES

There are no bridges over navigable waters within the limits of this quadrangle.

16. BUILDINGS AND STRUCTURES

All buildings to be shown have been circled in red ink. Buildings and other items to be deleted have been crossed out in green ink. New buildings have been blocked in approximately to scale. See Item 60

17. BOUNDARY MONUMENTS AND LINES

This quadrangle lies entirely within the limits of Commissioners District No. 2, except for the southwest corner west of Indian River which lies in Commissioners District No. 4.
All section corners falling within the quadrangle were searched for, but none were recovered.

Due to the inability to locate any monuments, boundary lines for that portion of the city of Cocoa falling within the quadrangle have been omitted from the photographs.

18. GEOGRAPHIC NAMES

This is the subject of a Special Report, Project Ph-30(48) which is being prepared by Mr. Lowell I. Bass, Engineering Aid, and will be forwarded to the Washington Office upon its completion.

19. TOPOGRAPHIC STATIONS

Ten (10) topographic stations were established by Mr. Leo F. Beugnet, Engineering Aid, along the shores of the Indian and Banana Rivers.

20. JUNCTION WITH ADJOINING QUADRANGLES

A junction was made in good agreement with quadrangle T-9172 to the west and quadrangle T-8879 to the south. Quadrangle T-9174 to the east and quadrangle T-9170 to the north are incomplete.

Submitted by:

W. Frank Therklieldon
Engineering Aid

Approved and forwarded:

George E. Morris, Jr.
Chief of Party
The Descriptive Report on Main Radial Plot No. 1 of 2 for 38-30(48)-Florida West Coast, covering sheets T-0169 thru T-0174, and dated 20 March 1949 is filed in the General Files, Division of Photogrammetry.
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<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR $\nu$-COORDINATE</th>
<th>LONGITUDE OR $v$-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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1 FT. = 0.048096 METER

COMPUTED BY B.F. Lampton

DATE Sept. 29, 1948

CHECKED BY R.R. Wagner

DATE October 5, 1948

DESTROYED. See Field Edit. Take.
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<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR X-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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1 FT. = 3048006 METER

COMPUTED BY: B.F. Lampton
DATE: Sept. 29, 1948

CHECKED BY: R.R. Wagner
DATE: October 5, 1948
26 & 27. CONTROL AND RADIAL PLOT:

These are the subject of a special report submitted to the Washington Office on March 28, 1949 by M. M. Slavney, Photogrammetric Engineer. Filed in Division of Photogrammetry.

28. DELINEATION:

The single-lens photographs covering the area of this quadrangle were of good scale. On two photographs (48-J-132 and 48-J-133) the visibility in part was obscured by clouds; however, sufficient coverage for these areas was obtained from the adjoining photographs.

The field inspection, while adequate, was in disagreement with the compiler's photographic interpretation in some instances. The field editor has been requested on the discrepancy overlay to clarify such details.

29. SUPPLEMENTAL DATA:

None used.

30. MEAN HIGH-WATER LINE:

The mean high-water line along the west shore of the Indian River has been delineated as shown by the field inspection notes. The shoreline of Merritt Island has also been delineated as indicated by the field inspection; however, a study of the photographs by the compiler indicated that a large portion of this shoreline labeled as apparent by the field inspectors may be mean high water. This has been referred to the field editor on the discrepancy overlay for investigation.

Refer to Item No. 7 of the Field Inspection Report for further discussion of this subject.

31. LOW-WATER LINE:

See Item No. 8 of the Field Inspection Report.

32. DETAILS OFFSHORE FROM HIGH-WATER LINE:

None were noted. See Form 567 "Obstructions" attached to this report. See also item 57.

33. WHARVES AND SHORELINE STRUCTURES:

These have been delineated as shown by the field inspector.
24. LANDMARKS AND AIDS TO NAVIGATION:

No landmarks were recommended for charting by the field inspector.

Two lights previously located by triangulation along the Intra-coastal Waterway are shown according to their geodetic positions. Theodolite cuts submitted by the field party proved that these lights are still in the same positions they occupied when established as triangulation stations. They are shown on the map manuscript with the primary control symbol and are bearing their correct charting names.

Eleven daybeacons along Courtenay Channel were established from theodolite cuts submitted by the field party.

Form 567 showing the scaled positions of these nonfloating aids is submitted herewith as a part of this report. Forms 521 filed for these aids in Gen. Files, Div. of Photogrammetry.

35. HYDROGRAPHIC CONTROL:

None required.

36. LANDING FIELDS AND AERONAUTICAL AIDS:

There are no landing fields within the limits of this quadrangle.

37. RECOVERABLE TOPOGRAPHIC STATIONS:

Ten topographic stations have been established. Their positions have been scaled and listed on Form 521, filed in General Files, Div. of Photogrammetry.

38. GEOGRAPHIC NAMES:

All geographic names furnished by the Washington Office have been applied to the map manuscript. Names list attached to this report.

39. SECTION LINES AND BOUNDARIES:

No section corners were recovered by the field inspection party.

An ozalid print of the map manuscript showing the section lines as plotted from available Township Plats has been prepared and is being submitted for confirmation by the field editor. Precinct lines will be applied to the manuscript at the time it is returned from field edit.

40. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Comparison was made with Planimetric Map No. 4532 which covers only the Indian River and Newfound Harbor portion of the quadrangle. This map was compiled in 1928 on North American Datum from aerial photographs taken by the Army Air Corps. The shoreline compares
favorably with the exception of Courtenay Channel which does not appear on the planimetric maps.

The inland planimetry of Merritt Island was in reasonably good agreement except for added roads and orchards which is a normal condition considering the elapsed time between the two compilations.

**45. COMPARISON WITH NAUTICAL CHARTS:**

Comparison was made with Intracoastal Waterway Chart No. 844 having a print date of 6/21/48. The shoreline is in good agreement.

Attention is called to several piling near the east end of Courtenay Channel which appear on the chart and were not recovered by the field inspector. This has been called to the attention of the field editor on the discrepancy overlay. *See item 57*

Respectfully submitted,

[Signature]

Rudolph Dossert
Cartographer (Photo)

Approved and forwarded:

[Signature]
Ross A. Gilmore, 5/27/49
Chief of Party
51. 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.

Planetary, sextant, theodolite, hand level and tape methods were used to make corrections and additions not shown on the photographs. Corrections and deletions have been noted on the discrepancy print and field edit sheet only. Additions will be found on the field edit sheet and photographs. In general, the additions to the photographs consist of additional boundary monuments recovered and identified, azimuth marks, landmarks, features overlooked by the compiler, outlined limits of changes in vegetation classification, etc.

On the field edit sheet, violet ink was used to show corrections and additions. Black ink was used for all work on the photographs. On the discrepancy print, violet ink was used in answering all questions and changes in road classification, red ink for classification of buildings and woodland cover and green ink for deletions.

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 print or field edit sheet.

Field edit information appears on the discrepancy print, the section line discrepancy print, field edit sheet and photographs Nos. 47J-524, 47J-527, 47J-529, 47J-532 and 48J-561.

52. ADEQUACY OF COMPILATION

The map compilation is believed to be complete and adequate with the corrections added by the field editor.

53. MAP ACCURACY

The horizontal position of the map details appeared to be good. No discrepancies were noted in the contours and the topographic expression was good.

54. RECOMMENDATIONS

See Field Edit Report for T-9170.
55. EXAMINATION OF PROOF COPY

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

56. LANDMARKS FOR CHARTS

A new steel water tank recently erected in the city of Cocoa, has been identified and recommended as a landmark for charting, reference Item 11. Form 524 filed in Gen. Files, Div. of Photogrammetry, General Files.

57. OFFSHORE FEATURES

Several piles were located on the field edit sheet by planetable and theodolite in the Courtenay Channel vicinity, reference Item 10.

58. MEAN HIGH-WATER LINE

The delineation of about one mile of the shoreline in the extreme southeast portion of the quadrangle was changed from apparent to a definite high-water line, reference Item 7.

59. BOUNDARY MONUMENTS AND SECTION LINES

Seven section corners and two points on section lines were recovered and identified, reference Item 17. Forms 524 filed in Div. of Photogrammetry, General.

60. BUILDINGS, WOODLAND COVER

All buildings are classified in accordance with Photogrammetry Instructions No. 29 dated October 1, 1948.

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

Approved and Forwarded:

Ross A. Gilmore, 11/7/49
Chief of Party.

James E. Hundley
Cartographer (Photo.)
<table>
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<tr>
<th>STATE: FLORIDA</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
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<th>LONGITUDE</th>
<th>DATUM</th>
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<th>Point</th>
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</table>

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

The positions given have been checked after listing by J.C. Richter, Tampa Photogrammetric Office.

<table>
<thead>
<tr>
<th>State</th>
<th>Charting Name</th>
<th>Description</th>
<th>Signal Name</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Datum</th>
<th>Method of Location and Survey</th>
<th>Date of Location</th>
<th>Charts Affected</th>
</tr>
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<tbody>
<tr>
<td>Florida</td>
<td>Target Piling North</td>
<td>28 25 1143 80 37 926</td>
<td>N.A.</td>
<td>Nadial</td>
<td>Jan.</td>
<td>FLOT</td>
<td>1949</td>
<td>X</td>
<td>1246</td>
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<tr>
<td></td>
<td>&quot; South</td>
<td>28 23 954 80 38 23</td>
<td>&quot;</td>
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</table>

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.
Cocoa, Florida  
August 23, 1949

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

The positions given have been checked after listing by

Rudolph Dessett, Tampa Photo. Office
Rega A. Gilmore  
Chief of Party.

<table>
<thead>
<tr>
<th>STATE</th>
<th>FLORIDA</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>TANK (Elav.)</td>
<td>Steel water tank, painted aluminum, atop 4-legged, 5 ft. skeleton steel tower, 85 ft. above ground and 120 ft. above M.E.W.L.</td>
</tr>
</tbody>
</table>

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

The positions given have been checked after listing by Everett H. Ramey.

<table>
<thead>
<tr>
<th>STATE</th>
<th>CHARITING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
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<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY</th>
<th>DATE OF LOCATION</th>
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<tr>
<td></td>
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<td>28 27 515 80 44 1470</td>
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<td>X 8144</td>
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This form is to correct positions previously submitted as part of this survey.

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
<table>
<thead>
<tr>
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<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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M 236
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<td><em>Duck Point</em></td>
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</tbody>
</table>

Names underlined in red are approved. 6-14-49

As to a new title for this sheet, the name of the village of Courtenay is suggested. The 1941 population was only 61, but it is the largest settlement on Merritt Island as included in this quadrangle, and is centrally located.

L.H.

(1940 pop. of Indianola given in Rand McNally as 50; of Audubon, 31.)
62. Comparison with Registered Topographic Surveys:

<table>
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<th>Survey</th>
<th>Scale</th>
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<tbody>
<tr>
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<td>T-4532</td>
<td>1:20,000</td>
<td>1928</td>
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<tr>
<td>T-6325</td>
<td>1:10,000</td>
<td>1941</td>
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</table>

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:

<table>
<thead>
<tr>
<th>Chart</th>
<th>Scale</th>
<th>Date</th>
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<tbody>
<tr>
<td>344</td>
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</tr>
<tr>
<td>1245</td>
<td>1:80,000</td>
<td>48 - 3/15</td>
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</tbody>
</table>

66. Adequacy of Results and Future Surveys:

This map meets the National Standards of Map Accuracy and complies with project instructions.

67. Boundaries and Section Lines.-The corporate limits for Cocoa were added to the manuscript during review by the Washington Office. Most of this line was plotted from the boundary description for the City of Cocoa included in Special Report on Boundaries for Project Ph-19(47), filed in the Division of Photogrammetry. The portions that are referenced to section lines and the centerline of the channel in Indian River are accurate.

The north limits line, which is small in extent, could not be positioned by the description submitted. This line was approximately identified on the photographs according to the Rockledge - Cocoa city map at a scale of approximately 1:12,000, submitted by the field party and filed in the Division of Photogrammetry. The line is shown on the manuscript as approximate.

68. Landmarks and Aids to Navigation.-The positions of the eleven daybeacons as cut in by the field party were compared with the positions as given on T-5825 (graphic control) at scale of 1:10,000. Discrepancies were present on some positions. Plotting was rechecked and some positions were changed. Most positions now agree closely between the two surveys. One discrepancy of approximately 27 meters remains but this daybeacon may have been moved since the last survey.
The same triangulation stations were used in locating these daybeacons so that the two surveys should be approximately the same in accuracy. However, the triangulation aids stations are located so that there are two cuts to fix the positions in latitude and only one cut in longitude. Discrepancies between the two surveys were primarily in longitude.

Reviewed by:

[Signature]
Everett H. Ramey

Approved by:

[Signature]
A. V. Griffith
Chief, Review Section E.H.
Division of Photogrammetry

[Signature]
W. M. Edmonston
Chief, Nautical Chart Branch
Division of Charts

[Signature]
O. F. Reade
Chief, Div. of Photogrammetry

[Signature]
W. M. Stice
Chief, Div. Coastal Surveys
HISTORY OF HYDROGRAPHIC INFORMATION

T-9173, Florida

Hydrography was applied to the manuscript of this quadrangle in accordance with Division of Photogrammetry request of 27 February 1950 and with general specifications of 18 May 1949.

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

Hydrographic Survey 1293 (1876) 1:20,000 C&GS.
Hydrographic Survey 1415a (1878) 1:20,000 C&GS.
Hydrographic Survey 1415b (1878) 1:20,000 C&GS.
Hydrographic Survey 6664 (1941) 1:10,000 C&GS.
Nautical Chart 844 (1949) 1:40,000 C&GS
(corrected to 17 April 1950)

Nautical Chart 1245 (1949) 1:80,000 C&GS
(corrected to 17 April 1950)

The depths within this quadrangle permit the delineation of only the six foot curve.

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

R. E. Elkins
26 April 1950
Nautical Chart Branch