

8805

Diag'd. on Diag. Ch. No. 1249

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. T-8805 Office No. _____

LOCALITY

State FLORIDA

General locality MONROE and DADE COUNTIES

Locality OLD RHODES KEY
PACIFIC REEF
"MARGATE SHOALS SW"

1947

CHIEF OF PARTY

Lieut. Comdr. George E. Morris Jr.

LIBRARY & ARCHIVES

DATE June 7, 1948

8805

DATA RECORD

T- 8805

Quadrangle (II): ~~Margate Shoals S.W.~~ ^{PACIFIC REEF} Project No. (II): Ph-10(46)

Field Office: Stuart, Fla. Chief of Party: Ross A. Gilmore
Lieut. Comdr.

Compilation Office: Tampa, Fla. Chief of Party: George E. Morris, Jr.
Lieut. Comdr.

Instructions dated (II III): 21 October 1946 Copy filed in ^{Office Files, Div. of} ~~Descriptive~~ ^{Photogrammetry}
~~Report No. T-~~ (VI)

Completed survey received in office: 23 Jan 48

Reported to Nautical Chart Section:

Reviewed: 30 Mar 48 Applied to chart No. Date:

Redrafting Completed:

Registered: 14 May 48 Published:

Compilation Scale: 1:20,000 Published Scale: 1:24,000

Scale Factor (III): None

Geographic Datum (III): N.A. 1927 [✓] Datum Plane (III): M.S.L.

Reference Station (III): Old Rhodes [✓] 1934

Lat.: 25° 20' 59."384(1827.2m.) Long.: 80° 14' 29."847(834.6m.) Adjusted [✓]
~~UNCLASSIFIED~~

State Plane Coordinates (VI): Florida East Zone

X = 750,452.91 feet

Y = 370,086.16 feet

Military Grid Zone (VI)

PHOTOGRAPHS (III)

| <u>Number</u> | <u>Date</u> | <u>Time</u> | <u>Scale</u> | <u>Stage of Tide</u> |
|---------------|--------------|-------------|--------------|----------------------|
| 16317 | 27 Apr. 1946 | 8:52 | 1:20,000 | .75' |
| 16318 | " | 8:54 | " | .75' |
| 16347 | " | 9:59 | " | .75' |

Tide from (III): ^{Mayport}
Pumpkin Key

Mean Range: 0.8

Spring Range: 1.0

Camera: (Kind or source) U.S.C. & G.S. 9-lens, 8 $\frac{1}{4}$ " focal length

Field Inspection by: I.I. Saperstein
J.E. Hundley

date: 7 May, 1947

Field Edit by: J.D. Weiler

date: Oct. 1947

Date of Mean High-Water Line Location (III): January - April, 1947

Projection and Grids ruled by (III) Washington Office date: 10 Dec. 1946
(T.L.J.)

" " " checked by: " date: 10 Dec. 1946

Control plotted by: R.J. Pate date: 5 Feb. 1947

Control checked by: R. Dossett and M.M. Slavney date: 7 Feb. 1947

Radial Plot by: R.J. Pate and M.M. Slavney date: 7 May, 1947

Detailed by: R.A. Reece date: May-June 1947

Reviewed in compilation office by: J.A. Giles date: July 1947

Map Manuscript
Elevations on ~~Field Edit Sheet~~
checked by: J.A. Giles

date: July 1947

STATISTICS (III)

Land Area (Sq. Statute Miles): 1.5

Shoreline (More than 200 meters to opposite shore): 7.0 Statute miles

Shoreline (Less than 200 meters to opposite shore): 1.0 " "

Number of Recoverable Topographic Stations established: 6

Number of Temporary Hydrographic Stations located by radial None
plot:

Leveling (to control contours) - miles: None

Roman numerals indicate whether the item is to be entered
by, (II) Field Party, (III) Compilation Party, or, (VI) the
Washington Office.

When entering names of personnel on this record give the
surname and initials (not initials only).

Remarks:

MAP T. 8805

PROJECT NO. Ph-10

SCALE OF MAP 1:20,000

SCALE FACTOR

| STATION | SOURCE OF INFORMATION (INDEX) | DATUM | LATITUDE OR ψ -COORDINATE LONGITUDE OR χ -COORDINATE | DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS | | DATUM CORRECTION | N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS | | FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS |
|--|-------------------------------|--------------|---|---|--------|------------------|---|--------|--|
| | | | | FORWARD | (BACK) | | FORWARD | (BACK) | |
| Pacific Reef 1934 Lighthouse, 1934 | G.P. Access No. 381 | N.A. 1927 | 25° 22' 16.209" 80 14 30.470 | | | | 498.8 (1347.4) | | |
| Old Rhodes 2, 1934 | " 381 | " | 25 20 59.384 80 14 29.847 | | | | 851.8 (825.7) | | |
| X Bn. No. 18 (Old Rhodes Key) 1934 | " 384 | " | 25 20 35.807 80 12 21.944 | | | | 1827.2 (19.0) | | |
| X Bn. No. 19 — 1934 | " 383 | " | 25 24 05.987 80 11 51.819 | | | | 834.6 (834.2) | | |
| X Bn. No. 20 (Old Rhodes Bank) 1934 | " 384 | " | 25 20 02.248 80 13 07.162 | | | | 1717.2 (129.0) | | |
| X Bn. No. 21 (Old Rhodes Key) 1934 | " 384 | " | 25 20 07.941 80 12 36.502 | | | | 613.5 (1064.3) | | |
| X Bn. No. 2 (Turtle Harbor) 1934 | " 384 | " | 25 19 20.998 80 12 39.666 | | | | 180.7 (1665.5) | | |
| X Bn. No. 1 (Turtle Harbor) 1934 | " 384 | " | 25 18 11.082 80 12 49.528 | | | | 1449.0 (228.8) | | |
| X Bn. No. 25 — 1934 | " 385 | " | 25 16 48.506 80 12 52.482 | | | | 69.2 (1777.0) | | |
| X Bn. No. 26 — 1934 | " 381 | " | 25 16 54.387 80 12 32.414 | | | | 199.2 (1478.8) | | |
| X Bn. No. 27 — 1934 | " 394 | " | 25 17 11.946 80 11 31.486 | | | | 216.7 (1629.5) | | |
| X Bn. No. 28 — 1934 | " 385 | " | 25 16 36.923 80 13 24.329 | | | | 1020.8 (657.2) | | |
| X Bn. No. 29 — 1934 | " 385 | " | | | | | 635.6 (1210.6) | | |
| X Bn. No. 30 — 1934 | " 385 | " | | | | | 1117.8 (560.3) | | |
| X Bn. No. 31 — 1934 | " 384 | " | | | | | 341.0 (1505.2) | | |
| X Bn. No. 32 — 1934 | " 384 | " | | | | | 1385.4 (293.0) | | |
| X Bn. No. 33 — 1934 | " 385 | " | | | | | 1492.5 (353.7) | | |
| X Bn. No. 34 — 1934 | " 385 | " | | | | | 1468.2 (210.5) | | |
| X Bn. No. 35 — 1934 | " 381 | " | | | | | 1679.6 (166.6) | | |
| X Bn. No. 36 — 1934 | " 394 | " | | | | | 906.8 (771.8) | | |
| X Bn. No. 37 — 1934 | " 394 | " | | | | | 367.6 (1478.6) | | |
| X Bn. No. 38 — 1934 | " 385 | " | | | | | 889.2 (789.3) | | |
| X Bn. No. 39 — 1934 | " 385 | " | | | | | 1136.1 (710.11) | | |
| X Bn. No. 40 — 1934 | " 385 | " | | | | | 680.7 (998.0) | | |

1 FT. = 3048006 METER

COMPUTED BY: R.J. Pate

DATE 20 Jan. 1947

CHECKED BY: R. Dossett

DATE 27 Jan. 1947

M. 2388-12

| | | | | |
|--|--------------------------|-------------------------------|--------------------------|-----------|
| 1 FT. = 3048006 METER COMPUTED BY: R.J. Pate | DATE 20 Jan. 1947 | CHECKED BY: R. Dossett | DATE 27 Jan. 1947 | M-2388-12 |
|--|--------------------------|-------------------------------|--------------------------|-----------|

FIELD INSPECTION REPORT
TO ACCOMPANY QUADRANGLE T-8805

PACIFIC REEF
~~MARGATE SHOALS SW~~
PROJECT Ph-10(46)

7 May 1947

1 - DESCRIPTION OF THE AREA:

This standard, $7\frac{1}{2}$ minute quadrangle (N2515-W8007.5/75.) lies in the Florida Keys, between Key Largo and Elliott Key.

There are approximately 1.5 sq. miles of land in this quadrangle. This land area consists of the southern $\frac{2}{3}$ of Old Rhodes Key and parts of three smaller, unnamed keys, covered by an extremely dense, heavy growth of vines and sub-tropical trees. Elevations of these keys range from Sea level to 9.5 ft. above mean sea level.

The entire quadrangle is accessible only by boat. The shoreline in general is mangrove covered coral or mangrove growing up in the water.

2 - COMPLETENESS OF FIELD INSPECTION

Field inspection in this quadrangle was accomplished in accordance with Instructions for the Project and is complete. All notes are on Photograph No. 16317 (prints 1 and 2).

3 - INTERPRETATION OF PHOTOGRAPHS

The very dark, generally smooth tone is mangrove; the medium, mottled tone is woods with dense undergrowth of brush and vines.

4 - HORIZONTAL CONTROL

The only known horizontal control within the area consists of U.S.C. & G.S. triangulation. A search was made for all stations with the following results:

Not Recovered

1. Turtle Reef Bn., 1934
2. Old Rhodes, 1853

Recovered but not Identified

1. Pacific Reef L.H., 1934

Recovered and Identified

1. Old Rhodes 2, 1934 - Sub Sta. Method
Photograph No. 16317.

5 - VERTICAL CONTROL

There is no known, permanent vertical control within the quadrangle. An elevation was established on Old Rhodes Key from the water elevation, with a temporary tide staff, connected to the Tidal Bench Marks on Angelfish Key, to reduce the elevation to mean sea level.

Notes and tide staff reading are recorded in Vo. 3, Wye leveling, Project Ph-10(46).

6 - CONTOURS AND DRAINAGE

From the tide-staff elevation established on the eastern shoreline and about equi-distant from the North & South ends of Old Rhodes Key a level line was run, by planetable, 4000 ft. along the eastern shoreline in a southerly direction, setting elevations at strategic points. The same method was used in a northerly direction from the tide-staff elevation established. After these elevations had been set, lines were cut from east to west across the key, and elevations on these cut lines established by hand level to control the contours.

All other elevations established by hand level on the small keys were run from water level to water level, making necessary adjustments in accordance with predicted tides.

After establishing those elevations on the photographs in the field a stereoscope was used to aid the topographer in drawing the contours. Since it was necessary to clear every line through very dense, jungle growth the cost of running out each contour would have been prohibitive.

All contouring is on photograph No. 16317(print 2).

7 - MEAN HIGH-WATER LINE

See Field Inspection Report for Quadrangle 8802.

All shoreline notes are on photograph 16317(print 1).

8 - LOW-WATER LINE

See Field Inspection Report for Quadrangle 8802.

9 - WHARVES AND SHORELINE STRUCTURES

There are no docks or shoreline structures within the area of this quadrangle.

10 - DETAILS OFFSHORE FROM HIGH-WATER LINE

Three piles in the vicinity of Turtle Reef were located by cuts and sextant fixes. These are listed on the Project Report on Dangers(form 567) and "524" cards submitted for each. No details requiring further investigation by the hydrographic party were observed. *See chart Lett #591(1947)*

11 - LANDMARKS AND AIDS TO NAVIGATION

There are no landmarks for charting within the limits of this quadrangle.

All fixed aids to navigation within the limits of the quadrangle were located. Refer to project for list and methods of location. Each aid has been described on "524" cards, except for Pacific Reef Lt., for which a recovery note is submitted.

*Filed under
T-8805*

12 - HYDROGRAPHIC CONTROL

No hydrographic signals required on this project.

13 - LANDING FIELDS AND AERONAUTICAL AIDS

There are no landing fields nor aeronautical aids within this quadrangle.

14 - ROAD CLASSIFICATION

There are no roads nor trails within this quadrangle.

15 - BRIDGES

There are no bridges in the area.

16 - BUILDINGS AND STRUCTURES

One camp on the east side of Old Rhodes Key was circled, that being the only building in the quadrangle.

17 - BOUNDARY MONUMENTS AND LINES

The land area is entirely within the ~~Election Precinct No. 92,~~ *In File Set.*
County Commissioners District 4, Dade County. See Special Report on *Photogrammetry Division.*
Boundaries, Project Ph-10(46), for the description of the Dade-Monroe County line through Broad Creek in the northwestern part of the quadrangle. *County line falls only on the Atlantic Ocean.*

18 - GEOGRAPHIC NAMES *214*

Refer to Special Report on Geographic Names, Project Ph-10(46).

Filed in Geographic Name Section, Nautical Chart Division

19 - TOPOGRAPHIC STATIONS

One Topographic Station (PLUG, 1947) was established on Old Rhodes Key.

524 card Filed under T-8805

20 - SYMBOLS

Symbols may be found on the back of Photograph No. 16343 (Quad. 8804).

21 - PUBLIC LAND LINES

No section corners were recovered in the quadrangle. Information from local engineers indicated that, to their knowledge, no recoverable corners are known to exist in the area. The land area is undeveloped, hence there are no cleared lines or other features to aid in locating section lines.

No G.L.O. plats are available.

JR.

Irving I. Saperstein
Irving I. Saperstein, Engr. Draftsman

James E. Hundley
James E. Hundley, Photo. Aid

APPROVED AND FORWARDED:

Ross A. Gilmore
Ross A. Gilmore, Chief of Party

COMPILATION REPORT
TO ACCOMPANY
PACIFIC REEF ~~MARSHALL~~ SHOALS S.W. QUADRANGLE
NO. T-8805
PROJECT PH-10(46)

26 AND 27. CONTROL AND RADIAL PLOT:

A special report prepared by M.M. Slavney, Photogrammetric Engineer was submitted to the Washington Office separately on 29 May, 1947.

*Filed in File
Sect. Photogrammetry
Div.*

28. DELINEATION:

This map manuscript has been delineated according to the latest instructions for this project.

The nine-lens photographs, 16317, 16318 and 16347 used in the compilation of this sheet were clear and of very good scale. No difficulties were encountered in delineating this manuscript.

29. SUPPLEMENTAL DATA:

There was none for this quadrangle other than a map of Dade County, showing county and section lines, which is considered to be accurate according to the description given in Special Report for Boundaries.

30. MEAN HIGH WATER LINE:

The mean highwater line was delineated according to field inspection notes.

31. LOW WATER AND SHOAL LINES:

Shown according to field inspection notes.

32. DETAILS OFFSHORE FROM HIGH WATER LINE:

Dangers have been plotted according to Field Inspectors and Project Reports.

33. WHARVES AND SHORELINE STRUCTURES:

There are none within the limits of this quadrangle.

34. LANDMARKS AND AIDS TO NAVIGATION:

The Non-floating Aids to Navigation were plotted according to data given in the project report on Non-floating Aids to Navigation. See field inspector's report on Non-floating Aids, paragraph 6 relative to Middle Ground Southeast Side Daybeacon No. 4.

Three good cuts were made on original position of station. Only fourth cut from Point Elizabeth was wild.

It is requested that form No. 526 be submitted for this station.

35. HYDROGRAPHIC CONTROL:

Not applicable to this project.

36. LANDING FIELDS AND AERONAUTICAL AIDS.

There are none within this quadrangle.

37. BRIDGES:

There are none within this quadrangle.

38. SECTION CORNERS:

No section corners were recovered within this quadrangle. See a special report submitted with T-8803 on 9 July, 1947 by W.A. Rasure, Photogrammetric Engineer.


44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

There are no topographic quadrangles available for comparison.

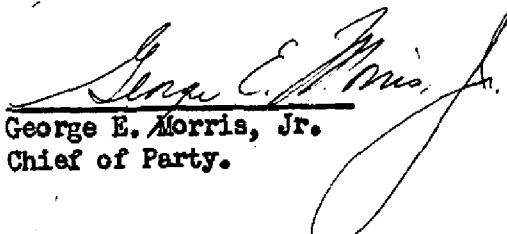
45. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with U.S. C. & G.S. Nautical Chart No. 849 bearing a print date of 27 October, 1945 and Chart 1249 bearing a print date of 26 January 1946. No major changes were noted. Some additional mangrove has grown in the waters between Old Rhodes Key and Totten Key.

Respectfully submitted,


Richard A. Reece,
Engineering Draftsman

Approved and Forwarded:


George E. Morris, Jr.
Chief of Party.

FIELD EDIT REPORT

QUADRANGLE T-8805

PACIFIC REEF

~~"MARSHALL SEALS SW"~~

PROJECT Ph-10 (46)

The Field Edit of this quadrangle was made during October, 1947 by John D. Weiler, Photogrammetrist.

46. METHODS

The map manuscript was edited entirely with the use of a small launch. The vegetation of Old Rhodes Key was checked by walking inshore at numerous points. All Aids to Navigation were verified visually.

47. ADEQUACY OF THE MAP MANUSCRIPT

The map manuscript was adequate and correct except for a few minor details.

A number of the 1934 beacons have been replaced by buoys. Form 526 is submitted as requested by the compilation section.

Some of the piles located in 1947 overlapped the positions of beacons obtained in 1934. Since the sextant work is not as accurate as the 1934 triangulation and all the piles in question seem to be very old, the 1934 positions should be used.

The dolphin shown on chart 1249, just S.S.W. of Pacific Reef Light (questioned on discrepancy overlay) was submitted as destroyed on the original field inspection and listed on Form 567. This has been verified during field edit.

48. VERTICAL ACCURACY TEST

Since no vertical accuracy tests were specified for Project Ph-10 (46), the contouring on Old Rhodes Key was visually checked only. The contours seemed to be in very good placement.

49. PUBLIC LAND LINES

The area covered by the quadrangle is devoid of information for reconstruction of public land lines and it is recommended that they be omitted. See Special Report by William A. Rasure, incorporated with descriptive report for quadrangle, T-8803. *It was possible to show the approx. position of the section lines. See Review Report of T-8806.*

It was very difficult to find anyone other than strictly local people to pass judgement on the completeness of the map manuscript; however, it was reviewed by Mr. John Arkema, who has been a fisherman on Ellintt Key for twenty years. He could find no errors.

All changes in aids to navigation noted by the Field Edit were reported to Nautical Charts on 4 Feb 1948

*Chart Settle
No. 591 (1947)*

R

John D. Weiler

John D. Weiler
Photogrammetrist

Supervised:

William A. Rasure

William A. Rasure
Photogrammetric Engineer

Approved and Forwarded

Ross A. Gilmore

Ross A. Gilmore
Chief of Party

Division of Photogrammetry
Review Report of
Topographic Map Manuscript T-8805

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

43. Comparison with Previous Surveys.--

This survey supersedes:

T-408 (1853) 1:20,000
T-573 (1854-5) 1:20,000
T-4600 (1928) 1:20,000

in common areas.

45. Comparison with Nautical Charts:

This survey was applied to charts #849 and #1249 prior to review. No changes were made, during review, affecting the charts.

48. Accuracy:

This map manuscript complies with national map accuracy standards.

49. Overlay:

An overlay has been prepared showing control, etc. and the new format for quadrangles. This map will be edited and published by the Geological Survey.

Reviewed by:

Jack Rihn

Jack Rihn
30 March 1948

APPROVED:

S. V. Griffith
Chief, Review Section, ~~of~~
Division of Photogrammetry

W. H. Williams
Chief, Nautical Chart Branch
Div. of Charts

K. T. Adams
Chief, Div. of Photogrammetry

C. K. Green
Chief, Div. of Coastal Surveys

GEOGRAPHIC NAMES

Survey No.

T-8805

PACIFIC REEF, Fla.

Name on Survey

| | A | B | C | D | E | F | G | H | K | |
|---------------------------------------|---|---|---|---|---|---|---|---|------|----|
| Florida | | | | | | | | | USGB | 1 |
| Dade County | | | | | | | | | | 2 |
| Atlantic Ocean | | | | | | | | | | 3 |
| | | | | | | | | | | 4 |
| Pacific Reef | | | | | | | | | | 5 |
| Pacific Reef Lighthouse | | | | | | | | | | 6 |
| Old Rhodes Key | | | | | | | | | | 7 |
| Old Rhodes Point | | | | | | | | | | 8 |
| Old Rhodes Channel | | | | | | | | | | 9 |
| Broad Creek | | | | | | | | | | 10 |
| | | | | | | | | | | 11 |
| | | | | | | | | | | 12 |
| Turtle Harbor | |) | | | | | | | | 13 |
| Turtle Harbor Channel | |) | | | | | | | | 14 |
| Turtle Reef | |) | | | | | | | | 15 |
| Turtle Rocks | |) | | | | | | | | 16 |
| | | | | | | | | | | 17 |
| | | | | | | | | | | 18 |
| Names underlined in red are approved. | | | | | | | | | | |
| 3/30/48 L. Heck. | | | | | | | | | | |
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NAUTICAL CHARTS BRANCH

SURVEY NO. T-8805

Record of Application to Charts

[illegible]

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.