

8486

Diag'd. on Diag. Ch. No. 1251

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. CS-301 Office No. T-8486

LOCALITY

State Florida

General locality Vicinity of Key West

Locality Bay Keys Quad

1943

CHIEF OF PARTY

R.L. Schoppe

LIBRARY & ARCHIVES

DATE June 2, 1949

B-1870-1 (1)

8486

Partially applied to Ch.	584	2/28/44	K. R.
" " " "	3261	6/14/44	J. N. S.
" " " "	1351	7/31/44	H. F. A.

Applied to Ch 854 - JFW 6/4/58

DATA RECORD

T-8486

Quadrangle (II):

Project No. (II): CS-301

Field Office: Tampa, Fla.

Chief of Party: Comdr. Ray L. Schoppe

Compilation Office: Tampa, Fla. Chief of Party: Lieut. Comdr. K.G. Crosby

Instructions dated (II III):

Copy filed in ^{Division of} ~~Descriptive~~
~~Report No. T-~~ (VI)
 Photogrammetry Office files.

Completed survey received in office:

Reported to Nautical Chart Section:

Reviewed: 7/28/43

Applied to chart No.

584 (partial) 2/28/44
 3261 Date: 6/14/44
 1351 7/31/44

Redrafting Completed: 4 Aug. 1943

Registered: 15 Dec 1948

Published: March 1944

Compilation Scale: 1: 20,000

Published Scale: 1: 25,000

Scale Factor (III): - - -

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

Reference Station (III): BAY KEY 1934

Lat.: 24° 38' 30.423" (936.0m.) Long.: 81° 46' 46.189" (1299.0m.) Adjusted
unadjusted

State Plane Coordinates (VI):

Florida coordinate system, East zone

X = 241,092.31 ft.

Y = 712,814.57 ft.

Military Grid Zone (VI) B

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
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None used for radial plot. This sheet is a red line print of previous compilations. Such photographs as was used was for checking topographic features by holding to previously compiled detail.

Photos of April, 24, 1943.

Tide from (III):

Mean Range:

Spring Range:

Camera: (Kind or source)

Field Inspection by:

date:

Field Edit by: George E. Varnadoe
Prin. Photo. Aid

date: May 1943

Date of Mean High-Water Line Location (III):

(Red line print on Celluloid)
Projection and Grids ruled by (III) Wash. Office. date: May -1943

" " " checked by: " " date: " "

Control plotted by: (Printed on projection) date:

Control checked by: " " " date:

Radial Plot by: None date:

Detailed by: Revision: Marie R. Blake date: May 1943
Jr. Eng. Draftsman.

Reviewed in compilation office by: F.H. Elrod date: June 14, '43
Sn. Photo. Aid
J.H.S. Billmyer
Asst. Photo. Engr.

Map Manuscript
Elevations on ~~Field Edit Sheet~~
checked by: G.E. Varnadoe, Prin. Photo. Aid date: May 20 '43

STATISTICS (III)

Land Area (Sq. Statute Miles): 0.19 (previously reported by Key West
Photogrammetric Office 1938)

Shoreline (More than 200 meters to opposite shore):
(previously reported)

Shoreline (Less than 200 meters to opposite shore):

Number of Recoverable Topographic Stations established: —

Number of Temporary Hydrographic Stations located by radial
plot: *See original planimetric sheet T-5546*

Leveling (to control contours) - miles:

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: The red line print portion of this sheet is from T-5546
compiled by Key West Photogrammetric Office in 1938

Sheet T-8486

General:

Sheet T-8486 is a revised quadrangle compiled from a U.S.C & G.S. compilation, No. T-5546. All revisions and additions were made by the Field Party on a metal mounted, red line print of the previous compilation and then transferred by the draftsman in the Tampa Photogrammetric Office to the red line celluloid sheet T-8486. These changes consisted of the addition of vegetation notes, elevations, and a notation stating the approximate stage of tide at which some of the Keys are flooded.

Sheet T-8486 was checked against recent photographs of the same area furnished for that purpose only and no noticeable change was found in the topography.

Respectfully submitted by

Marie R. Blake
Marie R. Blake, Jr. Engineering
Draftsman

Approved and Forwarded

Kenneth G. Crosby
Kenneth G. Crosby, Chief of Party

DESCRIPTIVE REPORT

Project OS 301 - Quadrangle T-8486

The field work for quadrangle T-8486 was accomplished on a base sheet compiled in the Washington office from existing planimetric maps.

There is no pertinent information for most of the descriptive report topics. Therefore, only those topics to which existent material is applicable have been used in this report.

1. The area which this quadrangle comprises is almost entirely made up of water. However, a few small keys are found in the southeastern portion of the quadrangle. These keys, the majority of which flood at half tide, are covered with a high, dense, growth of mangrove.

5. The levels in this quadrangle were taken from a first order bench mark (T-70 in quadrangle T-8491). They were carried on the water level from key to key and then were tied back to a tidal bench mark (Channel Key Bench Mark 1, in quadrangle T-8491).

The tidal bench mark to which this line was tied is not adjusted to "sea level datum of 1929". The level line was adjusted from the first order bench mark and a close approximation of the elevations relative to the "sea level datum of 1929" was made.

All U. S. Coast and Geodetic Survey bench marks were recovered. This quadrangle contains no other vertical control established by any other agency.

11. A careful check of the fixed lighted aids to navigation was made, and none was found that was not charted. Lieutenant Commander H. B. Haskins of the Coast Guard, who has 40 years' service in the light-house service and Coast Guard (stationed in Key West) stated that none has been constructed since the planimetric maps of this area were compiled.

Respectfully submitted,

George E. Varnadoe

George E. Varnadoe
Prin. Photo. Aid

Approved

Ray L. Schoppe

Ray L. Schoppe
Chief of WEPP#2

47. ADEQUACY OF COMPILATION.

The adequacy of the compilation appeared to be complete except for the additions which have been made to satisfy the particular requirements for this work.

48. ACCURACY TESTS.

A special report will cover the horizontal accuracy tests for the quadrangles of this project. Since there were no contours, no vertical accuracy tests were run.


C. F. Chenworth

Lieut. U.S.C&G Survey

Approved


Ray L. Schoppe

Comdr. U.S.C&G Survey

Chief of Party

T- 8486

26. Control:

Agua, 1934

Bay Key, 1934

Catda Channel Light No. 1, 1934

T. Bench Mark 2 (West Harbor Key)

T-8486

Remarks.

Decisions

	Remarks.	Decisions
1		246817
2		"
3		"
4		"
5		246818
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GEOGRAPHIC NAMES

Survey No. T-8486

Name on Survey	Source									
	A	B	C	D	E	F	G	H	K	
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
<u>Bay Keys</u>		✓								1
<u>West Harbor Key</u>		✓								2
<u>West Harbor Key Channel</u>		✓								3
<u>East Harbor Key Channel</u>		✓								4
<u>Calda Channel Light No. 1</u>		✓								5
<u>Calda Bank</u>				<i>name not on map</i>						6
<u>Bluefish Channel</u>		✓								7
<u>Gulf of Mexico</u>										8
<u>Monroe County</u>		✓								9
<u>Florida Keys Naval Reservation</u>				<i>name not on map</i>						10
<u>Great White Heron</u>										11
<u>National Wildlife Refuge.</u>				<i>by L. Heck 2/3/43</i>						12
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DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8486

BAY KEYS QUADRANGLE FLORIDA

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be necessary in this office are discussed on the next page.

Horizontal and Vertical Accuracy

Previous Surveys

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area.

Planimetric T-5546 was used as a base upon which to make corrections and additions for publication as quadrangle T-8486. Changes made were noted on page 7 of the Descriptive Report for T-5546

Comparison with Nautical Charts Nos. No. 1251

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts:

No changes.

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

West Harbor Key Tidal Bench Mark No. 2 (half-tide elevation = 2.98 ft.). A field adjustment to M.S.L. gave an elevation of 0.34 ft. (See field level book No.5)

Review Report written from notes on a check list made at the time of review. LTS

Reviewed _____ By Dorothy Moseley (per TS)
under direction of D. H. Benson Dorothy Moseley 26 July, 1943

Inspected by B. G. Jones. *B.G. Jones*

Examined and approved:

A. E. Edmonson
Chief, Surveys Branch
Nautical Chart

Chief, Div. of Charts

K. T. Adams
Chief, Topography Section
Revision of Photogrammetry

W. M. Scoble
Chief, Div. of Coastal
Surveys

RECORDS

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

Registered and Filed in the Vault.

Cloth-mounted copy of the published quadrangle.

Black and white cloth-mounted copy of the published quadrangle at 1:20,000 scale. This copy is filed to preserve original survey detail shown on the manuscript at 1:20,000 scale which may not have been shown on the published sheet. For woodland, refer to the published quadrangle for the finally adopted outlines.

Descriptive Report.

Filed in the Photogrammetric Division.

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Review Section.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and tabulations of results of horizontal and vertical accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in red changes to be made when next printed.)

Check lists of work performed on each sheet in the Washington Office during review, drafting, edit, and reproduction.

Copies of specifications and all instructions to field parties and field offices.

Filed in Reproduction Branch.

Glass negatives of the color separation drawings.

Filed in the Library.

Special report on office work by B. G. Jones, 1944.

Season's report on field work by Commander F. L. Gallen, 1944.

Season's report on field work by Commander R. L. Schoppe, 1944.

Delivered to the Army Map Service in accordance with the contract.

Film negatives and film positives of the color separation drawings.

All color separation drawings.

A correction sheet consisting of a copy of the first edition of the quadrangle with notes in red indicating changes desirable at the next printing.