

# 8492

Diag'd. on diag. ch.No. 1251

8492

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Topographic
Field No.	Office No. T - 8492
LOCALITY	
State	Florida
General locality	
Locality	Vicinity of Key West
<i>Saddlebunch Keys</i>	
1943	
CHIEF OF PARTY	
Comdr. Bay L. Schoppe	(Field)
Lieut. Comdr. K.G. Crosby	(Office)
LIBRARY & ARCHIVES	
DATE	March 24, 1948

## DATA RECORD

T- 8492

Quadrangle (II): ~~SADDLEBUNCH KEYS~~ *(Provisional name - not yet approved by U.S.G.S. 8/2/43)* 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 Descriptive Report No. T- (VI) *Div. Photogram Office Files*

Completed survey received in office: —

Reported to Nautical Chart Section:

*5848/251  
1351*

*4 Mar 1944*

Reviewed: *30 July 1943* Applied to chart No. *3261* Date: *14 June 1944*

*31 July 1944*

Redrafting Completed: *12 Oct. 1943*

Registered: *Feb 1948* ~~30 Dec. 1947~~

Published: *1943*

Compilation Scale: 1:20,000

Published Scale: *1:25000*

Scale Factor (III): - - -

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

Reference Station (III): GAR 1935

Lat.:  $24^{\circ} 36' 56.024''$  (1723.7 m) Long.:  $81^{\circ} 32' 16.775''$  (471.9 m) Adjusted  
Unadjusted

State Plane Coordinates (VI): Florida East Zone

X = 321,271.73

Y = 102,901.41

*state grid will not be shown on published quad.  
A special grid will be added to the black plate &  
published instead (1000 yard Harbor Defense Grid, Key West Area)*

Military Grid Zone (VI) B

PHOTOGRAPHS (III)

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

Tide from (III):

Mean Range:

Spring Range:

Camera: (Kind or source)

Field Inspection by:

date:

Field Edit by: G.E. Varnadoe, Prin. Photo. Aid

date: May 1943

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

(red line prints on celluloid)  
Projection and Grids ruled by (III) Wash. Office: date: May 1943

" " " checked by: " " date: "

Control plotted by: ( printed directly on projection) date:

Control checked by: " " " " date:

Radial Plot by: None date:

Detailed by, Revision inked: Modesta Neilson date: May 1943  
Asst. Engr. Draftsman

Reviewed in compilation office by: J.A. Giles, Asst Photo. Engr. date: June 1943  
J.H.S. Billmyer  
Asst. Photo. Engr.

Elevations on Field Edit Sheet  
checked by: G.E. Varnadoe, Prin. Photo. Aid. date: May 1943

STATISTICS (III)

Land Area (Sq. Statute Miles) 5.0 (previously reported by Key West Office)

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:

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: This sheet is a red line print of a portion of T-5545 previously compiled by the Key West Photogrammetric Office in 1938.

## General Procedure in the Production of Topographic Quadrangles for the War Department

This quadrangle, together with similar adjoining maps produced under Project C.S. 301, was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

The general procedure in the production of this and the adjoining quadrangles was:

### PREPARATION OF BASE MAPS

Assembly into quadrangle base sheets by photographic means of previously produced planimetric maps of the area. These maps were compiled by this Bureau from aerial photographs taken in 1935 and were published in 1935 on the scale of 1:20,000. Lithographic prints of the quadrangle base sheets on cloth-mounted paper were furnished to the field parties and similar prints in red ink on celluloid sheets were furnished to the compilation office. 7-5345

### FIELD SURVEYS

Aerial photography with the Coast and Geodetic Survey nine-lens camera, with airplane and flight crew furnished by the U. S. Coast Guard. The photographs were taken to the scale of 1:20,000.

Ground inspection of the photographs for identification of control points, and classification and clarification of planimetric details on the photographs. The field parties were permitted to make field inspection notes either on the photographs or on the planimetric base sheet.

~~Contouring by planimeter, directly on the photographs or on the planimetric base sheet, at the option of the field party. The contouring for this quadrangle was done on the~~

Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, driveways, and numerous other points identifiable on the photographs.

#### COMPILATION OF MANUSCRIPT

Revision of the planimetric base map from the new photographs and addition of contours and corrections obtained by the field parties. No radial plot was made for this work.

#### FIELD EDIT

Comparison of a copy of the corrected manuscript with the ground. This included inspection for completeness and accuracy as well as the location by planetable methods of additional details, checking of nautical and aeronautical aids to navigation, etc.

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

#### PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blue-line" copies of the manuscript. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680 or 1:25,000.

## DESCRIPTIVE REPORT

Project CS 301 - Quadrangle T-8492

The field work for quadrangle T-8492 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 in this quadrangle consists of a group of low and flat mangrove keys. The larger keys are connected by highway bridges and/or the bridges along the abandoned Florida East Coast Railroad, which is now under construction for a new highway.

5. Supplemental levels of third order accuracy were run over all the keys which are linked together. The elevations shown along the present highways are nearly level with the land surface, but the elevations shown on the abandoned railroad grade do not reflect the true nature of the land, as this grade is from 1 to 10 feet above the general land surface. These roads and a few short trails, however, provide the only practicable routes for level lines, since most of the keys are covered with swamps and dense mangrove.

The levels to and on the keys which were not accessible by road were run with the use of a boat by water level from key to key.

For further information, refer to report on quadrangle T-8488.

9. A small pier has been constructed at Sugaloa Beach, since the compilation was made, and is shown to scale on the map manuscript.

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 lighthouse service and Coast Guard (stationed in Key West) stated that none has been constructed since the planimetric maps of this area were compiled.

14. All roads have been classified according to instructions.

15. All bridges have been classified according to instructions.

16. A small dwelling has been erected at Sugaloa Beach since the compilation was made, and it is shown to scale on the map manuscript.

18. The geographic name (Sugaloa Beach) that has been added was established in 1938 by Mr. Knox Julian of Washington, D. C. and derives its name from Sugarloaf Key, on which it is located. One dwelling, a small pier, and several small cottages now exist. The name, Sugaloa Beach, is in local usage and was verified as noted below.

- (1) Henry Dixon - General Delivery, Pirate's Cove, Fla.  
4 years as caretaker at Sugaloa Beach
- (2) Eddie Linton - General Delivery, Pirate's Cove, Fla.  
5 years local knowledge as merchant

(x) Sign at entrance to Sugaloa Beach from the highway.

19. Water pipe line - Refer to report for quadrangle T-8488.

Respectfully submitted,

*George E. Varnadoe*

George E. Varnadoe  
Prin. Photo. Aid

Approved

*Ray L. Schoppe*

Ray L. Schoppe  
Chief of VMFP#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

Sheet T-8492

General:

Sheet T-8492 is a revised quadrangle of a former U.S.C. & G.S. planimetric compilation T-5545. *(1935 Photographs)*

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-8492.

Sheet T-8492 was compared with recent photographs covering the same area and there seems to be very little change in the topography; however, a few minor changes were made in the shoreline by using the photographs and holding the detail on the previous compilation.

Photographs were used only for checking the revision of detail by the topographer as stated above.

Respectfully submitted by

*Modesta Neilson*  
Modesta Neilson, Asst. Engr.  
Draftsman

Approved and forwarded by

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

F 8492

<u>Triangulation Stations</u>		<u>Lights</u>	
Burn	1935	Ninefoot Shoal Lt.	1935 A
Peel	1935	American Shoal Lt.	1909 A
Sab	1920		
Bunch	1934	<u>Bench</u>	
Jasw	1935	Pirate Cove Ben "7"	⊙
Gar	1935	Hawk Channel Ben "51"	1935 A
Goodolph	1934	" " " "53"	A
Jugulof 2	1909	" " " "53"	A
Egg	1938		
Rebecca Shoal Lighthouse	1911	<u>Bench Mark</u>	
		S-70	1934

Remarks.

Decisions

	Remarks.	Decisions
1		246815
2		"
3		"
4		"
5		24546
6		
7		
8		Road Maps
9		246815
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T-8492

*Saddlebunch Keys* quadrangle

Name on Survey	Source									
	A	B	C	D	E	F	G	H	K	
<u>Saddlebunch Keys</u>	✓		✓							1
<u>Sugarloaf Creek</u>	✓		✓							2
<u>Wells Key</u>	✓		✓							3
<u>Lower Sugarloaf Sound</u>	✓		✓							4
<u>Similar Sound</u>	✓		✓							5
<u>Hawk Chammel</u>	✓		✓							6
<u>Monroe County</u>	✓		✓							7
<u>U.S. Highway No. 1</u>	✓		✓							8
<u>Sugaloa Beach</u>			✓							9
Pending final action by U.S. Geological Survey, use title "Saddlebunch Keys" for this quadrangle.										10
										11
<u>sugarloaf key</u>			✓							12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names underlined in red approved  
by L. Heck on 8/13/43

## 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.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8492

*Saddlebunch Keys, Fla.* QUADRANGLE

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

*No tests on this quad.*

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 sheet covering this area was checked. See Descriptive Report T-5545, p. 4.*

Comparison with Nautical Charts Nos. 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:

*None of consequence.*

Reviewed 30 July 1943 under direction of D. H. Benson

By Dorothy Hasley  
*per L.T.S.*

Inspected by B. G. Jones *B.G. Jones 2/48*

Examined and approved:

*[Signature]*  
Chief, Surveys Branch

*[Signature]*  
Chief, Topography Section  
*Nautical Chart Branch*

*K.T. Adams*  
Chief, Div. of Charts  
*Photogrammetry*

*[Signature]*  
Chief, Div. of Coastal Surveys