

3830

C. & G. Survey

MAY 5 1921

App. No.

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: FLORIDA

11-5613

DESCRIPTIVE REPORT.

Topographic Sheet No. 3830-  
Field No. 3

LOCALITY:

~~Boot Key Harbor~~

Florida Reefs

~~Vicinity of Knight's Key~~

Boot Key Harbor

1920

CHIEF OF PARTY:

F.B.T. Siens, M. & G. Engineer

3830

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET NO. 3,

FLORIDA KEYS.

LIMITS:

This sheet includes part of Knights Key and part of Boot Key, Florida, in the vicinity of latitude  $24^{\circ}42'N$  and longitude  $81^{\circ}07'W$ .  
Scale 1 : 5,000.

METHOD:

The distance between  $\Delta$  Boot and  $\Delta$  Knight was plotted and a long line drawn thru them. Setting the planetable over  $\Delta$  Knight and orienting on  $\Delta$  Boot the shore line was determined by traverse, and checked by cuts.

Knowing the latitude and longitude of  $\Delta$  Knight and the azimuth to and thru  $\Delta$  Boot the projection was placed on the sheet, *after topography was completed.*

EXPLANATIONS:

The small black circles represent piles or dolphins five to ten feet above water.

The beacons are temporary, perhaps good for one year. They were erected of wood by this party in September 1920. The channel had been previously marked, and three iron pipe stumps remained along the starboard side of the channel. The " Hydrographer " beacons were established at points where the shoal extended somewhat into the channel.

REASON FOR SURVEY:

This topographic survey was made to furnish control for the hydrographic survey of Boot Key harbor. This harbor can afford shelter in case of a hurricane to vessels drawing  $7\frac{1}{2}$  feet. After leaving Miami, Fla. it is the only hurricane anchorage for vessels of this size before reaching Key West, Florida.

GENERAL INFORMATION:

Coal and ice can be obtained at Boot Key in very limited quantities unless arrangements are made in advance. The tram along the pier can be used for coaling altho not very satisfactorily. Water hauled over the railroad from Homestead, Fla. can be obtained from a pipe line along the pier. It is one cent a gallon.

A partly dismantled machine shop owned by the railroad is at present operating in connection with the repairs to a dredger.

There are telephone connections at Boot Key and telephone and telegraph connections at Marathon, one mile distant. A post office is at Marathon.

A tide staff was established on a pile near the marine railway, and three bench marks in the vicinity of the machine shop.

This key is on the chart as Key Vaca but is locally known as Boot Key.

Respectfully submitted,

*Charles Shaw*  
Charles Shaw,

H. & G. ENG'rs., C. & G. Survey.  
Topographer.

approved: *F. B. Williams*  
Chief of Party C. & G. S.

15-7031

# GEOGRAPHIC POSITIONS

Locality Knight Key, Florida (Field computations)

Datum.

State Florida.

STATIONS.	LATITUDE AND LONGITUDE.		SECONING IN METERS.	AZIMUTH.		BACK AZIMUTH.		TO STATIONS.	DISTANCE METERS.	LOGARITHMS.
	°	'		°	'	°	'			
<u>Boat</u>	<u>1920</u>	<u>24 42 00.00</u>	<u>—</u>	<u>357</u>	<u>44 30 17.7</u>	<u>44</u>	<u>356</u>	<u>Sombrero Key L.H.</u>	<u>3.904162</u>	
		<u>d.m. 81 06 50.98</u>	<u>1433.0</u>	<u>76</u>	<u>06 49 35.6</u>	<u>04</u>	<u>53.1</u>	<u>Molasses Key</u>	<u>3.906179</u>	
<u>Knight</u>	<u>1920</u>	<u>24 42 14.20</u>	<u>436.9</u>	<u>303</u>	<u>53 57 12.3</u>	<u>54</u>	<u>07</u>	<u>Boat</u>	<u>783.2</u>	<u>2.893852</u>
		<u>d.m. 81 07 14.10</u>	<u>396.4</u>	<u>77.6</u>	<u>42 26 25.1</u>	<u>40</u>	<u>39</u>	<u>Molasses Key</u>	<u>3.878130</u>	

*Observed 2400  
checked 10/1/20*

DIRECTOR  
ADDRESS THE SUPERINTENDENT  
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 4-MEM

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
WASHINGTON

SECTION OF FIELD RECORDS.

REPORT ON TOPOGRAPHIC SHEET No. 3830.

Surveyed in 1920.

Chief of Party: F.B.T.Siems.

Surveyed by Charles Shaw.

Inked by Charles Shaw.

1. The plan and character of this survey conform to the requirements of the General Instructions. Standard Whatman's paper should have been used instead of low grade roll paper.
2. The plan and extent of the survey satisfy the specific instructions.
3. The junctions with adjacent sheets are good.
4. No further topographic surveying is required in the area covered by the sheet.
5. The character and scope of the surveying are good. The field drafting is fair.
6. Reviewed by E. P. Ellis, July, 1921.
7. Two copies of this report to be sent to the Division of Hydrography and Topography.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3830  
Field No. 3

State . . . FLORIDA . . . . .

General locality . . Florida Keys. . . . .

Locality . . . ~~Vicinity of Knight Key.~~ Boot Key Harbor . . . . .

Chief of party . . . F.B.T. Siema . . . . .

Surveyed by . . . . Charles Shaw . . . . .

Date of survey . . . December 1920, . . . . .

Scale . . . 1:5,000 . . . . .

Heights in feet above . . . None . . . . .

Contour interval None feet.

Inked by . C.S. . . . . . Lettered by . . C.S. . . . . .

Records accompanying sheet (check those forwarded): Photographs,

✓ Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet . . . . .

Remarks: