

4210

Form 504

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

State: Florida

17-5013

DESCRIPTIVE REPORT.

Topography... Sheet No. 4210

LOCALITY:

Tampa Bay Approaches

Mullet Key and

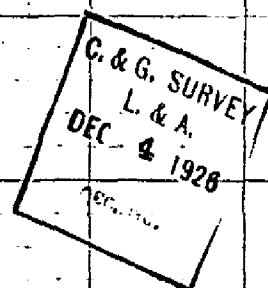
Egmont Key

1926

CHIEF OF PARTY:

R. P. Eyman

OFFICE  
4210



DESCRIPTIVE REPORT TO ACCOMPANY

TOPOGRAPHIC SHEET NO. 1  
SURVEY OF TAMPA BAY AND APPROACHES

INSTRUCTIONS OF JUNE 3, 1924

RAYMOND P. EYMAN, H. & G. E.  
Chief of Party

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET NO. ~~1~~ 1

1. Authority. Instructions from the Director, June 3rd, 1924.

2. General Description of the Coast.

Mullett and Egmont Keys lie respectively on the north and south sides of the North Channel entrance to Tampa Bay. Upon approaching the Coast, the first object usually seen is the water tank on Egmont Key, and soon after the Light House is raised. On some days the water tank is invisible until after the light can be seen, due to the gray color which the tank is painted. The tank is usually visible for approximately fifteen miles. A number of old army control towers are still standing on these keys, and are indicated plainly on the sheet. They are approximately sixty feet high.

The Gulf Coast of Egmont and Mullett Keys is all hard sand beach, and the hard sand extends completely around Egmont Key and along the Bay shore of Mullett Keys as far as the North Easternmost point. The North East side of Mullett Key is soft and muddy and the mangrove bushes grow to the water's edge.

3. Changes of the Coast Line.

The only appreciable change in any of the shore line shown on this sheet is that section of Mullett Keys lying approximately in Lat. 27 - 37.6 N and Long. 82 - 44.2 W. A comparison with the old sheet shows that in this vicinity the narrow entrance from the Gulf into the bays behind the Keys has washed thru considerably farther to the Southward, and the old channel has been completely filled in. The pass as it exists now is very changeable and shallow, and only small boats and skiffs can pass thru. The Gulf Coast of these Keys has no stable storm water line, and each storm of any severity from the Westward usually works some change.

This has been especially noticeable in the remains of what was called previous to 1919, Passage Key. In the storm of 1919 this Key was practically obliterated, and in the Spring of 1925 existed in two sections as shown on the topographic sheet. When the hydrographic survey of this vicinity was made in June 1926, both sections of the original Passage Key <sup>were</sup> ~~was~~ found <sup>to be</sup> considerably changed, and it was decided to relocate the shore line on the hydrographic sheet. Due to the strong currents in this vicinity the smaller of these two pieces changes frequently and occupies a new position almost daily.

#### 4. Dangers Previously Shown or Reported.

These will be completely covered on the Hydrographic Sheet.

#### 5. New Place Names.

None.

#### 6. Survey Methods.

No unusual methods were pursued in the survey of this area. The sheet was completed by Mr. R. C. Wilson, Aid in 1925, but several small changes were made on the shore line and signals of Egmont Key by L. M. Zeskind, Lt.(j.g.) in 1926. Most of the shore line was located by traverse with frequent resections to triangulation, and in some cases three point fixes could be obtained. The shore line as delineated required no changes from the original traverse. The first traverse around Mullett Keys failed to check by the required accuracy and was re-run with satisfactory results.

Included in this report is a list of the launch hydrographic signals and the prominent land marks used as signals. The small signals built for inshore hydrography have not been inked in on the sheet but can be found easily for checking purposes from the list of positions. Upon

inking the sheet the meridian of 82 - 41 W. was found to be considerably in error to the Eastward, but it was also noted that the Station Mullett Key Shoal Beacon had been plotted with due regard to this so that no errors were found in the shore line which was rerun after a check of this signal.

St. Petersburg, Florida.

May 1926.

*Paul C. Smith*  
*Lieut. [J. S.]*  
*(Topographer)*

PLANE TABLE POSITIONS

Object and Description	Latitude	D.M.	Longitude	D.P.	Name on Hydro-shee'
	Mullett	Keys			
Hydro signal	27-38	842	82-41	1110	Pel
Hydro signal	27-38	630	82-41	1383	Pin
Hydro signal	27-38	267	82-41	1595	Blue
Hydro signal	27-37	1741	82-42	50	Soap
Hydro signal	27-37	1483	82-42	194	Can
Hydro signal	27-37	913	82-42	660	Al
Hydro signal	27-37	591	82-42	1230	Pit
Gable on Hospital	27-37	1	82-43	82-	Hos
Flagpole	27-36	1260	82-44	143	Crab
Fire control tower	27-36	1350	82-44	333	Box
Fire control tower	27-36	1512	82-44	372	Sim
Hydro signal	27-37	340	82-44	314	Lone
Fire control tower blown down in storm of Sept 1926	27-37	1310	82-44	100	Amy
Hydro signal	27-38	8	82-44	443	Do
Hydro signal	27-38	575	82-44	622	Re
Hydro signal	27-38	940	82-44	769	Ron
Hydro signal	27-38	1424	82-44	778	Hot
Front Range	27-36	252	82-46	830	
End	27-34	1749	82-46	27	
Weather bureau mast	27-35	368	82-45	1113	
Dredge south range	27-36	2	82-45	1230	
Flagpole	27-36	127	82-45	1041	
Dredge north range	27-36	154	82-45	1210	
Fire control tower	27-36	297	82-45	1180	
Fog Bell	27-36	342	82-45	1266	
Hydro signal	27-38	1423	82-44	696	Warm
Stake	27-38	562	82-44	72	Week
Old Log	27-37	773	82-43	1472	Log
Stake	27-37	760	82-43	338	Wet
Stake	27-37	1463	82-43	645	Land
Stake	27-38	517	82-43	232	Blak
Small signal	27-37	1490	82-42	863	Barn
Small signal	27-37	120	82-42	958	Plug
Small signal	27-37	426	82-42	990	Spark
	Egmont	Key			
Cable sign	27-34	1333	82-45	1074	"B"
Front range	27-36	252	82-46	830	
Fire control tower	27-34	1749	82-46	27	End
Weather bureau mast	27-35	368	82-45	1113	
Dredge south range	27-36	2	82-45	1230	
Flagpole	27-36	127	82-45	1041	
Dredge north range	27-36	154	82-45	1210	
Fire control tower	27-36	297	82-45	1180	
Fog bell	27-36	342	82-45	1266	

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U. S. COAST AND GEODETIC SURVEY

REG. NO. 4210

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 1

REGISTER NO. **4210**

State Florida.

General locality ~~Gulf Coast of Florida~~ Tampa Bay Approaches

Locality ~~Approaches to Tampa Bay~~ Mullet Key and Egmont Key

Scale <sup>1</sup>20,000 Date of survey Feb. 1925, May, 1926

Vessel Hydrographer

Chief of Party Raymond P. Eymann

Surveyed by R. C. Wilson

Inked by Paul A. Smith

Heights in feet above.....to ground to tops of trees

Contour, Approximate contour, Form line interval.....feet

Instructions dated June 3rd, 1924

Remarks:.....