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Creasury Department,

U. S. COAST AND GEODETIC SURVEY.

O. Y. Tildmann

Superintendent.

State: PR

DESCRIPTIVE REPORT.

Hyd - Sheet No 2736

LOCALITY:

Sboart J. P. R

1905

CHIEF OF PARTY

"P. L. Faris, asst

U. S. C. & G. SURVEY, LIBRARY AND ARCHIVES,

JUL 8 - 1905

Acc. No.

7736

DESCRIPTIVE REPORT

U. S. C. & G. SURVEY, JUI 8 - 1905

PONCE HYDROGRAPHIC SHEET . (1905.) Acc. No.

The work contained on this sheet at the present date (June 1905) is a re-survey of the region covered by original hydrographic sheet No. 2420 with the exception of the deep sea soundings. Several shoal spots.not shown in the original survey.were found in the inland waters north of Berberia and Muertos Islands. 21 instead of 24 feet on the spot just south of the entrance to Cabullon Bight. This is important as this shoal is directly on the sailing line of vessels using the inside passage from Ponce to the eastward. The present survey does not show any shoaler water on the seven fathom spot off the south-west point of Muertos Island. A twelve fathom spot was found about three and one-half (3-1/2) miles to the south-west of Muertos Island, to the westward of which the water deepens to the hundred fathom curve very rapidly. shown on this sheet shows the hundred fathom curve to be farther eastward (to the westward of Muertos Island) than shown on our present maps of this region. Just to the southward of the entrance to Ponce harbor the hundred fathom curve is about a mile eastward of its present charted position. I do not believe that the 95 fathom sounding, now shown on our chart in this locality, exists. There is a shoal with 8-1/2 fathoms of water over it about 2-1/4miles S.E.x S. of Ponce bell buoy. The water is steep to on the west and south sides of this shoal.

Owing to the uneven character of the bottom along the inside passage east of Ponce vessels of more than sixteen feet draught should not attempt to use it. In running sounding lines about the west end of Muertos Island a current of about a knot an hour was observed setting to the north-westward. There is apparently no current between Berberia Island and the mainland . Comparatively smooth water and good bottom for anchorage can be found under the mainland northward of Berberia Island in four fathoms of water. There is a good anchorage in six fathoms of water, sandy bottom, under Muertos Island west of the light house. This is well sheltered from the prevailing winds, but the ocean swell is slightly felt here yet not nearly so much as in Ponce harbor.

A. L. Faris

Assistant C.& G. Survey.

June . 1905.

Position of Objects used as Hydrographic Signals

on South Coast of Porto Rico.

Hydrographic Sheet # 2736.

U. S. C. O. G. SURVEY, LIBRARY AND ARCHIVES, JUN 11 1906 Acc. No.

: 0bje	et and Description	.: Lat. :	D. M. :	Long.	:D.P. : Remarks
:Thick	do.	:17 59 :	1563:	66 32	: 565: Le Miles North of Port Ponce. : 830: 16" Nexe "Cabellon Pt.
:Long, :Port, :Green,	do. do. do.	:17 59 :	1329:	66 30	:1361 :47 NE Cabellen 21. : 136 :35 WAN "Jacageas Lidg. : 420 :20 "NNW Cayito Pt.

JUN 9 1906

STEAMER EXPLORER

Forwarded

www.t.t. C. & G. Survey, Comd's

Descriptive Report

Hydrographic Sheet No. 2736 (1906).

From Guanica lighthouse to St. Isabel Landing

The work on this sheet is supplemental to the survey of 1899, and a continuation of the survey of 1905. See previous descriptive reports.

The most important features of the present survey are the development of the 14 ft. spot 2 miles S.S.E. of Berberia Island. This shoal has an east and west trend, gradually shoaling up to 14 feet as the least depth over it. There is a channel of about 5 fathoms depth between this shoal and Berberia Island. This shoal is not a continuation of the south end of Berberia Island as the chart now shows. fathom curve is farther off shore to the southward of Berberia Island (about in latitude 170 491) than now shown on the published charts (see descriptive report for hyd. sheet No. 2737) The two soundings taken in 1905, of $\frac{0}{880}$ and $\frac{0}{590}$ fathoms, 4 and 5 miles to the southward and eastward of the entrance to Guayanilla harbor respectively, are erroneous and should be stricken from the sheet. Soundings in their locality this year with the Sigsbee machine proved conclusively that these two soundings taken last year with the "Cosmos" machine, are not correct.

1.

R. L. Far

5-9-1906

field work recrus to be well executed, and the records are all rights. The lives gross in the limits of the is well corred. drawing hus between positions, while the sheet was damp, was I put into the too haid, as baker, which made is difficult lik Somani U. S. C. & G. SURVEY, JUN 21 1906 Acc. No.

VEC

Department of Commerce and Labor COAST AND GEODETIC SURVEY

Berirington

October 6, 1906.

Mr. Andrew Braid,

Assistant in charge of Office.

Sir:

In reply to a request of the 10th instant, from Mr. Geo. L. Flower, Acting Chief, Drawing and Engraving Division, I transmit herewith tide note for Hydrographic Sheet No. 2736, "Berberia Island to Guayanilla Harbor, South Coast of Porto Rico", by Assistant R. L. Faris in 1906.

Respectfully yours,

L. P. Shidy Chief of Tidal Division.

HYDROGRAPHIC SHEET 2736.

Berberia Island to Guayanilla Harbor, South Coast of Porto Rico, by Assistant R. L. Faris in 1906.

TIDES

	Ponos	Pence	
	staff of 1905	staff of 1906	
	ft.	ft.	
Mean low water, or plane of reference on staff	1.25	0.46	
Lowest tide observed " "	0.73	0.18	
Highest " " " "	2.30	1.75	
Mean rise and fall of tides	0.08	0.08	
Mean rise and fall of tropic tides	0.85	0.85	

Coast and Geodetic Survey

OCT 6 1906

TIDAL DIVISION.

1906

STATISTICS

Hydrographic Sheet No. 2736.

	Date		Vol.	Let.	Miles	Sdgs.	Angles	Boat.
Jan.	24,	1906	1	А	12.8	185	100	"Explorer"
11	25,	· tr	ı	B	41.6	55 6	348	11
11	26,	- tr	1&2	C	45.2	693	366	n
. 11	27,	31	2	D	22.4	446	188	
. 11	29,	11	. 2	E	20.6	313	182	
Mar.	12,	u	. 2	J	7.5	9	18	n N
11 11 11 11 11 11 11 11 11 11 11 11 11	13,	11	2	K	12.2	10	20	11
T	otal	s – –			162.3	2212	1222	
	•	· .						
Jan.	25,	1906	1	a	12.8	404	180	"Steam Launch"
u	26,	u,	1	b	15.0	558	182	
T	otal	3			27.8	962	362	
Jan.	27,	1906.	, 1	a	5.9	339	112	"Whaleboat"
G	rand	total	s		196.0	3513	1696	28 square miles

DEPARTMENT OF COMMERCE AND LABOR

Coast and Geodetic Survey

0. H. Tittmann, Supt.

Fig. 1. Section of the section of th

Hydrographic Sheet No. 2736

South Coast. Porto Rico.

Prom Guayanilla to Berberia Island. It Duray avilla Winter

Assistant. R. L. Faris, Chief of Party.

905-06

Steamer "Explorer".

Begun: Jan. 24th.

Ended: Mar. 13th.

1906

Soale: 1:40:000

Plat 1 J.C. Down

Observers

R.L. Faris, Assistant.

W.F. Glover, Watch Officer.

J.R. Hurley, Assist. Surgeon.

E.V. Miller, Capt's Clerk.

N. H. Heck, Aid.

H.M. Roy, Aid.

Recorders

Edward Treffz, Chief Writer.

A Hope, Writer 2nd. class.

Leadsmen

T.N. Janssen, Q.M.1st. class.

A.M. Berggren, " 2nd. "

E.N. Larsen, " 2nd. "

H. W. L. Zall, " 2nd. "

H. Olsen, Seaman.

Tidal Observations at Ponce, P. R.

Tidal comparisons at Rincon Bay, P. R.

Sounding lines plotted by R.L.F. and E.V.M.

STATISTICS:

• • • •						
	_		lumber of			
		Angles	les Soundings: Miles		Vessel	
April 27	A	2	30	15	10.0	Str. EXPLORER
II 28	B	2	16	8	8.2	Str. EXPLORER
" 29	C	2	30	15	10.5	Str.EXPLORER -
May 1	7)	2	66	296	10.4	Str. EXPLORER
# 2	E	2 & 3	132	357	19.7	Str. EXPLORER
" 3	F	2 :	34 .	28	12.0	Str. EXPLORER
# 4	G	2	146	170	35.0	Strexplorer
#· 5 ~	H	2	248	145	38.0	Str. EXPLORER
# 6	J	4	154	193	17.2	Str. EXPLORER
<u> </u>	K	4	344 .	915	39.5	Str. EXPLORER
# 18	/	4 & 5	348	698	39.3	Str. EXPLORER
" 19	M	5	372	735	39.7	Str. EXPLORER
u 20	N	5	178	№ 131	19.2	Str. EXPLORER
11 22	0	5 & 6	388	c 554	38 .3	Str. EXPLORER o
<u>" 23</u>	72	6	134	190	13.3	Str. EXPLORER
H 24	0	6	238	291	19.5	Str. EXPLORER
¹¹ 25	充	6 & 7	352	513	34.4	Str. EXPLORER
11 26	Ŝ	7	374	639	30.3	Str. EXPLORER
1127	7'	7	174	215	13.5	Str. EXPLORER
Total		7 3	758	6105	4 48. 0	
	,					
May 24	a	1	218	843	20.2	Steam Launch
W 26	£	1	64	265	6.2	Steam Launch
	<i></i>	ī	282	1.113	7 26.4	
otal			282	1113	26.4	

RECAPITULATION:

Str. EXPLORER:	7	3758	6105	448.0	
Stm. Launch	1	282	1113	26.4	
Grand Total	8	4040	7218	474.4	

The Lorndrigs are expressed in fact

6 ft curve is plower in Bound

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Coast & Geodetic Survey,

O. H. TITTMANN, SUPT.

HYGROGRAPHY.

...of the

South Coast of Porto Rico,

Between Pt. Guayanilla and Sta Isabel Landing to Pt. Guayanilla

by the

Party in charge of R.L.Faris, Assist,

Str. EXPLORER.

Begun April 27,1905.

Ended May 27,1905.

Scale 1.40,000

OBSERVERS:

H. C. Graves, Nautical Expert, L. H. Westdahl, Assist.

W.F. Glover, Watch Officer, B.D. Barker, Aid, and N. H. Heck, Aid.

RECORDERS:

O. M. Straube, Chf. Writer, H. E. Klages, Writer; 2 cl.;

LEADSMEN:

J. Hansen, Qmr. 1 cl.; T. N. Janssen, Qmr. 2 cl.; F. N. Christensen,

Qmr. 2 cl.; A. M. Berggren, Qmr. 2 cl.; H. W. L. Zall, Seaman,

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