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1905

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U. S. C. & G. SURVEY,
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JUL 8 - 1905
Acc. No.

Treasury Department,
U. S. COAST AND GEODETIC SURVEY.

O. H. Tiltmann
Superintendent.

State: *P.R.*

DESCRIPTIVE REPORT.

Hyd. Hyd. C Sheet No. *2737*

LOCALITY:

S. Coast of P.R.

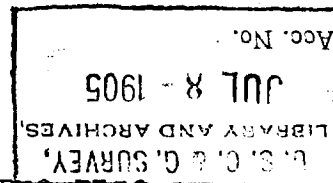
1905

CHIEF OF PARTY:

"R. L. Davis, Asst."

2737

HYDROGRAPHIC SHEET.



St. ISABEL to POINT FIGURAS, SOUTH COAST of PORTO RICO.

This is a re-survey of the eastern entrance to the inside passage to Ponce, between Berberia Island and the mainland. No material differences in the depth of water now shown on the published chart were found. The best depth of water in this entrance is nearer Berberia Island. By favoring this island the shoal ridge, making off to the south-westward of the 2-1/2 fathom spot, is avoided.

R. L. Jarvis

Assistant C. & G. Survey,

June, 1905.

Positions of Objects used as Hydrographic Signals

on South Coast of Porto Rico

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Hydrographic Sheet #2737

U. S. C. & G. SURVEY,
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Object and Description.	Lat.	D.M.	Long.	D.P.	Remarks.
'Smoke, stack of sugar mill	'17° 57'	1624	' 66° 24'	00	' 1 1/2 Miles NNW of Pt. Patroca.
'Cloud, do.	'17 57'	1164	' 66 23	1076	' 1/2 " NW " " "
'High do.	'17 58'	566	: 66 22	: 1229	: 20 " NE " " "
:Buff, do.	:17 58:	954	: 66 21	: 1002	: 24 " NE " " "
:Jo, Light House.	:17 56:	246	: 66 16	: 1737	: Jobos Light House
:Sweet, large white stack : of sugar mill.	:17 57:	611	: 66 13	: 632	: 0.4 Miles NNW of Cayito Pt.



Forwarded

R. L. Farid
 Assist. C. & G. Survey, Comd'g

Descriptive Report

Hydrographic Sheet No. 2737 (1906).

This sheet covers the South Coast of Porto Rico, from Berberia Island eastward to Point Figuras and is supplemental to the survey of this region made in 1899, upon which the present published chart of this locality is based. This sheet is a continuation eastward of the work begun in 1905.

The material changes from the original survey (and the published charts) are in the location of the 100 fathom curve which is further to southward (about latitude $17^{\circ} 49'$) and in the broken line of shoals running east and west in approximate latitude $17^{\circ} 50'$ from longitude of Mareas Reef to S.S.W. of Berberia Island; these shoals having from 10 to 15 fathoms of water over them.

No material changes from the charts were found between Berberia and Jauca Islands. No shoaler water was found in the main entrance to Rincon Bay. This bay is apparently clear of shoals except on the northwest side as already charted. No less water was found on the 6-3/4 fm. spot 1-1/2 miles to the southward of Jobos L.H. The 8-1/2 fm. spot 4-1/4 miles S. by E. 1/2 E. from Jobos L.H. was examined closely and about 12 fathoms, was the least depth found. As only one sounding of 8-1/2 fathoms was obtained here in the original survey, it is probable that it was an error. The depths along the coast from

Barca Islands to Arroyo (outside of Mareas reef are practically as already charted). The 8 to 9-1/2 fathom ridge 3-3/4 to 5 miles S.S.W. 3/4 W. from Point Figuras extends about 1/4 mile further to northeastward but the depths over it are practically as charted. The 4 fathom spot 3 miles S.W. by S. 1/2 S. from Point Figuras does not exist. A careful examination of this spot was made and fully seven fathoms was the least water found and no indication of such a shoal spot, the water naturally deepening to seawards (the southeast)

A vessel making a course E. 1/2 N. from a position 3 miles to southward of Muertos L.H. (about the usual track of the deep draft vessels) to a position 4 miles S. by E. from Point Figuras L.H. will carry more than seven fathoms of water all the way. There is a good anchorage at the head of Rincon bay, east side, in four fathoms of water, sandy bottom. There is an excellent anchorage on S.E. side of Rincon bay just to the northward of Ratones Ids. in 6 fathoms of water, soft bottom. This anchorage is well protected from the sea.

There is a little shoal with 8-1/2 fathoms over it 2-1/2 miles S. 1/2 E. from Mareas point, our present charts show 13 fathoms at this spot.

Five fathoms depth of water was found 2-1/2 miles S. 1/2 E. of Point Barrneas instead of 5-1/2 fathoms, now shown on the published charts. A large light colored smokestack has recently been erected at Aguirre sugar mill at the head of Jobos harbor. This stack is easily seen for ten miles along

3.

the coast and is a good guide in locating the position of Jobos harbor. The exact location of this chimney is shown by hyd. signal "Sweet" on the sheet.

There is a fair anchorage northwest of Jauca Islands in ordinary weather.

Along the coast at St. Isabel landing the bottom is sandy and free of rocky shoals. There is a fairly smooth anchorage about $3/4$ mile S.W. of St. Isabel landing in $3-1/4$ fms., sandy bottom; when the trade winds are not from the southward of east.

There are only 26 feet of water on the $4-3/4$ fathom spot $1/2$ mile S. by W. of Pajaros Id.

Jobos harbor is now one of the important sugar exporting places of the Island owing to the existence there of one of the largest sugar mills in Porto Rico. The largest steamers coming to Porto Rico call at Jobos to load sugar

R. L. F.

5-9-1906.

Hyd No 2737

Department of Commerce and Labor

Sheets 2736 and 2737.

The field work seems to be well executed and the records are all right. The lines cross well and the ground within the limits of the survey is well covered.

The pencil used on the sheets for drawing lines between positions, while the sheets were damp, was too hard, as it put into the paper, which made it difficult to plot and ink soundings and curves.

F. C. D. (Signed).

For orig. report see sheet

2736

Coast & Geodetic Survey,

O. H. TITTMANN, SUPT.

HYDROGRAPHY

of the

South Coast of Porto Rico,

~~Between Sta Isabel Landing and Pt. Figueras,~~

~~(vicinity of Santa Rosa Island)~~
by the

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

STR. EXPLORER,

Begun May 2, 1905,

Ended May 29, 1905,

Scale 1:40,000

OBSERVERS

B. D. Barker, Aid, and N. H. Heck, Aid.

RECORDERS

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

LEADSMEN

J. Hansen, Qmr. 1 cl., T. N. Janssen, Qmr. 2 cl.,

F. N. Christensen, Qmr. 2 cl., and H. W. L. Zall, Seaman,

STATISTICS:

Date 1905	Number of				Vessel
	Vol.	Angles	Soundings	Miles	
May 2	3	30	156	5.7	Str. EXPLORER
May 29	3	375	955	39.2	Str. EXPLORER
Total	2	1	405	1111	44.9

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Sheet 2737

The soundings are expressed in feet
and refer to mean low water.

6 ft. curve is shown in ~~Green~~ ^{Red}
 The 12 ft curve is shown in Blue
 24 " " " " " Yellow
 30 " " " " " Purple
 60 " " " " " Brown -

to be
Tide note furnished by Tidal Division

Report on plotted sheet with 2736.

DEPARTMENT OF COMMERCE AND LABOR

Coast and Geodetic Survey

O. H. Tittmann, Supt.

Hydrographic Sheet No. 2737

South Coast, ^{of} Porto Rico.

~~From Berberia Island to~~ Point Figuras. *to Berberia Island*

Assistant R. L. Faris, Chief of Party.

Steamer "Explorer".

Begun: Jan. 29th.

Ended: Mar. 15th.

1905 - 1906

Scale: 1:40,000

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.

Leadsman

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

Tidal comparisons at Rincon Bay.

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

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S T A T I S T I C S

Hydrographic Sheet No. 2737.

Date	Vol.	Let.	Miles	Sdgs.	Angles	Boat
Jan. 29, 1906	3	E	11.0	93	90	"Explorer"
" 30, "	3	F	29.4	422	262	"
" 31, "	3	G	49.7	571	412	"
Feb. 1, "	4	H	35.9	445	346	"
" 2, "	4	J	34.4	454	334	"
" 3, "	5	K	16.0	216	150	"
" 5, "	5	L	5.0	60	44	"
" 6, "	5	M	28.2	367	266	"
" 7, "	5	N	35.5	462	320	"
" 8, "	6	O	37.0	409	266	"
" 9, "	6	P	24.1	374	232	"
" 10, "	6	Q	25.6	325	212	"
" 12, "	6	R	1.5	16	16	"
" 14, "	7	S	14.0	193	120	"
" 15, "	7	T	2.7	31	24	"
" 16, "	7	U	2.7	64	44	"
" 17, "	7	V	19.0	102	156	"
" 19, "	7	W	30.1	467	314	"
" 20, "	7&8	X	27.5	295	276	"
" 21, "	8	Y	31.3	368	304	"
Mar. 1, "	8	Z	24.2	268	216	"
" 2, "	8&9	A'	19.0	183	156	"
" 3, "	9	B'	13.5	106	78	"
" 5, "	9	C'	20.0	41	82	"
" 6, "	9	D'	20.0	207	214	"
" 7, "	9	E'	25.5	235	232	"
" 8, "	10	F'	22.5	262	230	"
" 9, "	10	G'	25.5	293	284	"
" 10, "	10	H'	16.1	183	166	"
" 13, "	10&11	K'	19.5	86	170	"
" 14, "	11	L'	31.5	27	54	"
" 15, "	11	M'	16.4	118	120	"
Totals-	- - - - -	- - - - -	714.3	7743	6190	
Jan. 29, 1906	1	c	17.3	739	230	"Steam Launch"
" 30, "	2	d	3.5	139	32	"
Feb. 1, "	2	e	31.0	1102	396	"
" 2, "	2&3	f	23.1	809	310	"
" 6, "	3	g	6.5	305	- -	" 140 □ miles approx
" 8, "	3	h	16.0	413	194	"
" 9, "	3	i	8.9	278	108	"
Mar. 7, "	4	k	12.1	411	170	"
" 9, "	4	l	11.1	398	147	"
" 15, "	4	m	3.5	128	52	"
Totals	- - - - -	- - - - -	133.0	4722	1639	
Grand totals	- - - - -	- - - - -	847.3	12465	7829	