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U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Agdiographic Field No. Office No. 2634 2469 A
LOCALITY 2472A
State Puesto Rico
General locality Viegues Sound
Locality
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CHIEF OF PARTY
R.L. Faris
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Bepartment of Commerce and Labor COAST AND GEODETIC SURVEY Superintendent. DESCRIPTIVE REPORT. Lyde Sheet Na2635 LOCALITY:



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Department of Commerce and Labor

COAST AND GEODETIC SURVEY

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Superintendent.

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DESCRIPTIVE REPORT.

Dyde Sheet No 2637

LOCALITY:

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CHIEF OF PARTY:

R.L. Faris



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U. S. COAST AND GEODETIC SURVEY. H.S. Pritchett *State: Porto Rico DESCRIPTIVE REPORT. Hydrographic Sheet No. 2469 LOCALITY: S.N. Coast of Culebra Id. with adjacent islands CHIEF OF PARTY: W. C. Hodgkins



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JUN 15 1903 Acc. No.

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U. S. COAST AND GEODETIC SURVEY. Superintendent.
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U. S. COAST AND GEODETIC SURVEY.

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Superintendent.

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DESCRIPTIVE REPORT.

Creasury Department,

Hyd sheet No. No. 34-37 of Nylogh ANH12A Viegnes Sound de

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Descriptive Report

of

Vieques Sound, P.R. Hydrographic Sheet.

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The locality of the work covered by this sheet lies to the eastward of Porto Rico, in Vieques Sound, between Culebra and Vieques Islands; the north coast of Vieques Island as far west as Port Mulas; a shoal to the restward of Mosquito Reef; one north of S.W.Cay, between S.W.Cay and Culebra; one at the entrance to Great Harbor; one at the entrance to Target Bay; "Blake" and "Hodgkins" Shoals and shoals at Point Arenas sand spit. The open part of Vieques Sound is from ten to twelve miles wide-north and south- and about sixteen miles long - east and west - with an average depth of about fifteen fathoms and with remarkably uniform bottom for this region. This part of the sound is free from all dangers to mavigation, i.e. from outer Piraguas Rock to Great Harbor entrance. There is a slight shoal about three miles north of Caballo Colorado point with a least depth of 7-1/2 fathoms of water. I have named this shoal "Holiday" Shoal as it was discovered on a legal holiday and there was no other name for it. This shoal was carefully developed and it is believed that it offers no danger to navigation. Blake and Hodgkins Shoals were especially and carefully developed with leads and channel sweep set at a depth of about two feet less than the least water expected on the shoals, and it is believed that the minimum depth on Hodgkins oal is 27 feet and on Blake shoal 22 feet. Blake shoal is at present marked by a striped first class nun buoy which lies about 250 meters southeast of the shoalest water. The dangerous part of this shoal consists of a narrow rigge of about 350 meters in length extending about east and west. There is a good channel for any draft vessel between

(4 pages)

this shoal and Cordilleras reef.

Hermanos and Barrilles Passages were closely sounded out and five fathoms of water was the least depth found; Barriles passage showing a - little better depths. In going through these passages two parallel ridges (having the general trend of the reef) are encountered about 1/4 mile apart and having a least depth of from five to six fathoms of water. with an intervening trough of from ten to twelve fathoms in depth. Vessels of ordinary/can sail very close to this reef along its entire length on either side. The north side of this reef is steep too, carrying fifteen fathoms within less than a quarter of a mile of the rocks, and this statement is practically true for the south side of the reef as far west as western side of Hermanos passage. From the character of the bottom in these passages it is not safe to say that five fathoms is the least water that exists as the bottom is very irregular and consists entirely of coral rock with small scattering spots of white coral I think the survey developed the fact that these passages are safe for vessels under 24 feet draft.

Cape San Juan light is the only guide to navigation through the north side of the sound.

Vieques Sound is used principally by local coasting vessels of both sail and steam power. The eastern part in vicinity of Target Bay is now beginning to be used extensively by the Navy Department as a pracice ground for war vessels for which purpose it is most excellently adapted. A considerable number of small vessels ply between Vieques, Culebra and Porto Rico, and most of the trade of the sound is carried on in these boats. But larger steamers often call at Port Mulas for cargoes of molasses, sugar and cattle, which are the only export products

of Viques Island. A lighthouse at Port Mulas is the only aid to navigation on south side of the sound, this light serving as a guide along the north coast of Vieques Island and to Port Mulas Harbor. The north coast of Vieques Island to the eastward of Port Mulas is comparatively steep*to, and free from all dangers to navigation outside of the line from Caballo Colorada Point to Cucaracha Rock. Vessels drawing over seven feet should not attempt to go between this rock and the mainland.

Taland except for light draft vessels. Port Negro is a good harbor for small boat only. The entrance to this harbor through the outlying coral reefs is only about 100 meters wide and about two fathoms deep; the water inside shoals very rapidly. There is not much clear water in this harbor, at least half of it being foul ground and very uneven bottom. This harbor affords a good landing place on Vieques Island for small boats in almost any weather.

There is always a heavy surf along this coast except when the trade winds happen to veer much to the southward (which is unusual) and landis impossible along the open part of the coast most of the time.

Port de Salina, near the east end of the island is the only other harbor along this coast. There is a good clear depth of water inside this harbor but the entrance is intricate and narrow and hence not feasible (unless well buoyed) except for light draft vessels. This harbor affords good shelter in any weather.

To the westward of Port Mulas there is an excellent anchorage immediately south of Mosquito reef in 6-1/2 fathoms of water, sandy bottom. This anchorage is well protected from the prevailing winds by the reef.

A strong tidal current sets around the east end of Vieques Island to S.E.and N.W. (current to southeast with flood tide)

There are no fogs occuring in this region; the prevailing winds are northeast which often makes the waters of the sound quite rough.

There are no life-saving stations, hospitals nor boarding stations in this vicinity. No fresh water stations, supplies and ship chandlers' stores, coal nor repair shops, the nearest place being St. Thomas or San Juan. No weather service, time-balls, hydrographic office, office for reporting vessels, special signals, ice codes, etc., docks nor marine railways. There is a small wharf at Isabel Segunda but only small boats an go alongside. There is a custon-house at Fajardo. The principal settlement is Isabel Segunda, Vieques Island. Here is a telegraph station. The nearest post-office of convenience is located at Fajardo. The principal industry of Isabel Segunda is cattle and sugar.

French steamers, stop here taking on board cattle and transporting them to Cuba. Fajardo is the only port of entry on the Sound.

A.R. Faris auch 6+9 Sung June 8-1903)



Report
on
Hydrographic Sheet
No. 2634.
South Coast of Vieques Island,
Port Real,
P.R.
Assistant Faris,
1905.

This sheet was verified and found correct.

F.C.Donn. (Signed).

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REPORT ON
HYDROGRAPHIC SHEETS
Nos. 2635, 2636 and 2637.
Assistant Faris,
1903.

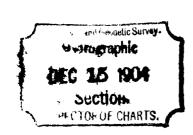
The opinion which I have obtained from handling these sheets, inking and verification, is that the work has been executed by expert surveyors.

The sounding books are in good shape, the angles plot satisfactorily, and, as a rule, the lines of soundings work remarkably well. I am especially impressed by the method employed of taking angles and soundings at regular time intervals, in this case, angles every three or three and one half minutes, soundings from two to four per minute; it greatly facilitates the plotting and verification.

In two or three cases the shoreline obtained by the hydrographic party differs by 50 to 75 meters from that furnished by the topographic sheets, and I have no doubt that the first mentioned is the more trustworthy.

A. Lindenkohl. (Signed).

10/6/03.



2472 ~ Triosury Department U.S. C. & G. SURVEY. Mis levost and broditie Denny DUN 1 2 1903 O. Jithuam, Superintender & No. Entrance to Enst Harton, Portodies (fleulebra Dslaud) [Special Survay] By the party in charge of Great Howbor Development of Rock of Grouper Shoal Rd. Faris ask Culebra Island West Indies 1903 Steamer Blake Surveyed Ppil 10 1908 Scale 1/5,000 Sundings plotted by FBLoru, aid Tiles at Port Mulas Title Station

Department of Commerce and Cahor

Records were kept good.

M.L. Simon

No. 5, **1 5-18-1903--100,000.)

2636 JUN 12 1903 Trasury Department CC. No. We levoit and Goldtie Burray OA. Titterane Superin tendent Hydrography Viegues, Dound Porto Rico Blace Afral to Granpus Ofroal in Charge of R. L. Farie assistant Stramer Blake Beguen Feb 32. 1903 Eucle J May 25- 1903 Sec /40,000 Same lines pertend by R. L. Faris and Tides at Ook Mulos, Tide Station

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It is the expressed desire of the Novy that the range and brows in entrance to Great Harbor be not published as the ware established only for the guidance of Word visseld R. L. Faris Assistants bold Suraj

Statistics For Viegues Sound Sheet Porto Rico.									
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14	"	D	2	195	409	178		,	
16	"	E	193	36.1	973	302			
7	и	F	3	42.5	976	352			
1.18	24	G	394	38.9	921	320			
19	4	H	4	22.3	533	184			
20	"	\mathcal{J}	4	28.0	698	240			
1121	"	K	4	13.3	245	1/2			
23	,, i	4	495-	44.8	1052	382			
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" 17	11	A'	//9/2	55.0	1150	414			
18	••	$\mathcal{B}^{'}$	129/3	49.2	1198	420			
1. 19	,,	c'	13	47.5	1172	410			
20	"	D'	139-14	47.5	1105	396			
21	11	E'	14	20.7	491	178			
,, 1 6	4	F	14	42.7	947	344	-		
. 27	**	G'	سىر	36.2	835	304			
" 28	11	H'	سی/	23.8	527	194			
,, 30	″	J'	<i>گارسوسی</i>	37.8	902	314			
,, 3 /	4	K'	16	47,5	11/7	380			
	To	tal		816.8	18137	6574			
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,, 3	4.1	M	17	47.0	1106	400			
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., 10	41	P'	8719	35.4	797	3/4			
. //	/ /	Q'	19	22.5	532	192			
" 13	<i>7</i> 1	R'	19	30,2	616	236			
14	"	S'	19920	37.8	766	3/8			
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24	11	A"	23	36.2	794	300		
25	,,	B"	23	22.4	540	190		
29	,,	c*	23	8.2	208	84		
	7	otal	†	565.8	12843	4692		
May 6	Blake	D"	24	20.8	510	173		
, 7	"	E"	24	23.3	59Z	224		
8	"	F	24925	30.3	1001	358		
9	4	G	25	19.8	583	198		
i. 77	"	H"	25	29.2	748	284		
11/2	**	<i>J</i>	26	344	880	30Z		
/3	"		26	14.3	72/	282		
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Blake Shoul Scale 10000 Enlarged from Hyd. shuts

nos. 2490, 2527, 2586, 2634 and 2673

2634 x 2634ª Sounding plotted by and, Ground ficked & verife I by A.C. Down

1 2634 Blake Shral Scale 1-10000 Enlarged from Shut 2490-2527-2586-2634-2673 Positions used in plotting sub-Ellekh Sheet 2490 Shown in Grren on Sub sketch 21F 5 27F = 56 560F = 105 6 6 1096 = 1276 1336 Sheet 2527 Shown in Blue on Sub Sketch $\frac{54^{e}}{6} \frac{67^{e}}{67^{e}} = 46^{n} \frac{5}{5} \frac{50^{n}}{6} = 40^{w} \frac{5}{5} \frac{44^{w}}{6} = 49^{w} \frac{6}{5} \frac{53^{w}}{6} = 59^{w} \frac{6}{5} \frac{63^{w}}{6} = 27^{y} \frac{5}{5} \frac{30^{y}}{6} = 39^{y} \frac{5}{5} \frac{40^{y}}{6} = 56^{u} \frac{5}{6} \frac{59^{u}}{6} = 67^{u} \frac{5}{6} \frac{74^{u}}{6} = 98^{u} \frac{1}{5} \frac{104^{u}}{6} = 112^{u} \frac{1}{5} \frac{114^{u}}{6} = 117^{u} \frac{1}{5} \frac{118^{u}}{6}$ Sheet 2586 Shown in Brown on Sub-Sketch Sheet 2634 Shown in Red on SubSketch $74^{D''}$ to $77^{D''} = 80^{D''}$ to $83^{D''} = 28^{E''}$ to $31^{E''} = 165^{M''}$ to $166^{M''} = 1^{N''}$ to $94^{N''} = 1^{8}$ to 10^{8} Shut 2673 Shown in Gellow on Sab Sketch 183 to 185 =17" 420" = 38" to 40" = 90" 494" = 68" to 72" = 76" to 81" = 104" 6 109" 113° $|_{5}118^{\circ}$ = 137° $|_{5}141^{\circ}$ = 144° $|_{5}150^{\circ}$ = 22° $|_{5}25^{\circ}$ = 28° $|_{5}32^{\circ}$ = 57° $|_{5}60^{\circ}$ = 153° $|_{5}165^{\circ}$