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JUN 15 1906

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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

O. H. Guttman
Superintendent.

State: *P.R.*

DESCRIPTIVE REPORT.

Hyd. C. Sheet No. *2803, 2804*

LOCALITY:

S. Coast of
Vieques Island

1906

CHIEF OF PARTY:

R. L. Faris

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U. S. C. & G. SURVEY,
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DESCRIPTIVE REPORT.

Hydrographic Sheets (Field)

"A", scale: 1: 40,000

"B", scale; 1: 20,000

South Coast of Vieques Island, P.R.

This sheet covers the South Coast of Vieques Id. from previously surveyed part about 1 mile to westward of Island to Conejo Pt. This is an original survey, except that a few scattered soundings appear on chart.

The 100 fm. curve as shown on the chart was found to be approximately correct going eastward to a point south of Mt. Pirata. From here it has an E.N.E'ly trend, passing $\frac{3}{4}$ of a mile off Pt. Vaca. The 16 fm. sounding on chart shown 1 mile S.E.xS. from Pt. Vaca does not exist, as 300 fms. and over was found within $\frac{1}{8}$ mile on all sides. From this point the curve has an E'ly trend to a point $2\frac{1}{4}$ miles S.W. of Esperanza Stack. It takes a turn to the S.E. until it meets the curve as shown, when it follows it to a point south of Port Mosquito. It then parallels the curve as shown, about $\frac{1}{4}$ mile to the southward of it to the limits of the work.

A shoal was found extending from a point $1\frac{3}{4}$ miles south of Mt. Pirata, and extending two miles to the westward, having 10-12 fms. of water on it.

A shoal was found extending from a point 1 mile southward of Playa Grande Stack, 1 mile to the eastward, with 5-6 fms. of water on it.

In the entrance to Port Real Harbor a shoal was found beginning at a point $\frac{7}{8}$ mile W.x S. from southend of Water Key and extending a $\frac{1}{2}$ mile to the western. There is a $2\frac{3}{4}$ fm. spot on eastern end, and $2\frac{1}{2}$ fms. on western end. The average depth is 3 fms.

About 0.4 mile north of eastern end of last shoal and about 1/4 mile off shore there is a small shoal with 2-1/4 fms water on it. Between these shoals there is channel with not less than 5 fms. of water. About 0.4 mile S.S.W. of Water Key there is a small shoal with 4 fms. of water on it. The 3-3/4 fms. sounding shown on chart to eastward of this does not exist.

The best anchorage in Port Real Harbor was found to be in the following bearings: West black stack of sugar mill, N.E.; West tangent of Water Key, S 1/2 E., in 3 fms. of water, sandy bottom. This anchorage is comparatively smooth when ^{wind} is to the eastward of S.E. It is open and unprotected from winds from S. to W.

A good anchorage is found in Ensenada Sombe with not less than 3-1/2 fms. of water, sandy bottom, entering about the middle of the bight. It is protected from winds to the eastward of S.E. It is open and unprotected from winds from S. to S.W.

A shoal extends from a point 2 miles south of entrance to Port Mosquito, N.W. x E. to limits of work and probably further with 8-11 fms. of water on it.

There is a small shoal 0.8 mile southwest of Chiba Cay and South of entrance to Ensenada de la Chiba, with 4-1/2 fms. of water on it.

An uncharted reef was found beginning 1/3 mile E.N.E. of Port Ferro L.H., and extending approximately 1/2 mile to E.N.E., about 1/4 mile off shore.

Another uncharted reef was found 1/3 of a mile South of Conejo Pt., about 1/3 of a mile long, extending from E. to W. Neither of these reefs was accurately located as launch work did not extend so far to the eastward. Both of these reefs are awash.

Ensenada de la Chiba was not regularly surveyed but it was found to be good anchorage for winds east of S.E. By entering about middle of bight 4-1/2 fms. was carried to anchorage which was made in 3-3/4 fms. of water, with sandy bottom. There was not less than 3-1/2 fms. across entrance except at eastend, which should be avoided on entering.

The only harbor of which commercial use is made on the south coast of Vieques Id. is Port Real. This is not a port of entry and has no custom house. Vessels enter this harbor to load sugar from a new mill, which has recently been erected there, about every ten days, as occasion requires.

R. L. J.

5-24-1906.

Position of Objects used as Hydrographic Signals

on South Coast of Vieques I.

HYDROGRAPHIC SHEETS "A" and "B"

U. S. C. & G. SURVEY,
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ON ORIGINAL

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Arenas

Object and description.	Lat.	D.M.	Long.	D.P.	Remarks.
Cant. White washed boulder.	:18° 05'	: 1092	: 65° 34'	: 344	1/4 Mile Sx E from Pt. Arenas
Top. hut on hill.	:18 05	: 483	: 65 31	: 454	1/2 Mile south of Playa Grande
Co. hut on beach	:18 05	: 1307	: 65 30	: 590	0.8 Mile East of Playa Grande
Clean. White washed boulder	:18 05	: 1629	: 65 28	: 1307	on cliff in Port Real
Cliff. Hut with red roof.	:18 05	: 1614	: 65 28	: 1084	on same cliff as Clean
Pipe. West iron stack, sugar mill	:18 05	: 1657	: 65 28	: 547	In Port Real
Pin. White washed pinnacle rock	:18 05	: 580	: 65 27	: 130	1/2 Mile WSW from Port Ferro L.H.

Grande

Real

Ferro

ON ORIGINAL
DOCUMENT



Forwarded

R. L. Fair

Assist. C. & G. Survey, Comd'g

Sheet 280 ~~3~~ 4 So Coast League Ed RR
280 4

The work on these two sheets seems
to be well done.

The draughtsman in the field placed
the figures and letters marking the boat
positions too close to the position.

It was found necessary to place the numbers
farther away in order to keep them from being
covered up, and lost, by the sounding.

Aug 10th 1906

J. C. Dorn,

Department of Commerce and Labor

Sheet 2803 So Coast Virginia

The soundings are expressed in feet and refer to Mean Low Water

The 30 ft curve is shown in	Purple
36 " " " " "	Yellow
60 " " " " "	Green
100 " " " " "	Red
120 " " " " "	Blue.

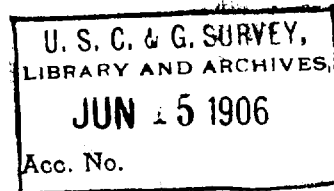
See note readable from Tidal Div.

2803

DEPARTMENT OF COMMERCE AND LABOR

Coast and Geodetic Survey

O. H. Tittmann, Supt.



Field Hydrographic Sheet "A".

South Coast, Porto Rico

→ South Coast of Vieques Island
Conezo Pt. to Pt. Arenas
Porto Rico

From Point Arenas to Conezo Point
(Vieques Island)

R. Z. F., 1906, 1-40,000

Assistant R. L. Faris, Chief of Party.

Steamer "Explorer".

Begun: Apr. 16th.

Ended: May 22nd.

1906.

Scale: 1: 40,000

2803

Observers

R.L. Faris, Assistant.
W.F. Glover, Watch Officer.
J.R. Hurley, Assistant 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 Arenas Landing, Vieques Id., P.R.

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

1 9 0 6

S T A T I S T I C S

Field

Hydrographic Sheet "A".

Date	Vol.	let.	Miles	Sigs.	Angles	Boat
Apr. 16, 1906.	1	A	22.0	216	230	Str. "Explorer".
" 17, "	1	B	27.0	424	338	"
" 18, "	1	C	23.0	353	244	"
" 18, "	2	C	10.7	162	108	"
" 20, "	2	D	28.5	321	256	"
" 21, "	2	E	12.3	168	148	"
" 23, "	2	F	17.5	235	194	"
" 25, "	2 & 3	G	14.0	232	158	"
May 4, "	3	H	10.1	150	96	"
" 5, "	3	J	8.3	135	92	"
" 22, "	3	K	13.5	273	160	"
Grand total - - -			186.9	2669	2024	19 square miles

V.E.C.
Nov. 7, 1906.

Sur Eng Div
AB
11/7/06

HYDROGRAPHIC SHEET 2803.

South Coast of Vieques Island, Conezo Point to Point
Arenas, Porto Rico, by Assistant R. L. Faris, 1906.

TIDES

	Port Arenas ft.
Mean low water, or plane of reference on staff	1.57
Lowest tide observed " "	1.40
Highest " " " "	2.40
Mean rise and fall of tides	0.80

Coast and Geodetic Survey
NOV 7 1906
TIDAL DIVISION