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1912
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3387

C. & G. SURVEY,
LIBRARY AND ARCHIVES
NOV 13 1912
Acc. No. _____

Diag. Cnt. 1253-2 & 1351-2

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

A. H. Sattmann
Superintendent.

State: *Fla.*

DESCRIPTIVE REPORT.

Hyd. Sheet No. *3387*

LOCALITY:

Dry Tortugas

1912

CHIEF OF PARTY:

Hodgkins

11-4045

3387

DEPARTMENT OF COMMERCE AND LABOR.

COAST AND GEODETIC SURVEY.

C. & G. SURVEY,
LIBRARY AND ARCHIVES
NOV 13 1916
See No

HYDROGRAPHY.

FLORIDA REEFS.

Between Marquesas Keys and Rebecca Shoal.

By the

Party in charge of Assistant W. C. Hodgkins.

Steamer BACHE.

Began January 20, 1912.

Ended April 20, 1912.

Scale. 1:40000 - 3387.

(Tides observed at Rebecca Shoal Light House.)

First Sub-sheet.

Southern edge of Reef Westward of Marquesas Block.

Scale. 1:20000 - 3384

Second Sub-sheet.

Vicinity of reported danger.

About 11 miles Southeastward from Rebecca Shoal Light House.

Scale. 1:10000 3385

Third Sub-sheet.

Vicinity of Rebecca Shoal.

Scale. 1:10000 3386.

File

DEPARTMENT OF COMMERCE AND LABOR.
COAST AND GEODETIC SURVEY.

C. & G. SURVEY,
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Hyd. 3387 bia.

HYDROGRAPHY.

Eastward and Southeastward from Dry Tortugas, Florida.

By the

Party in charge of Assistant W. C. Hodgkins.

Steamer BACHE.

Begun January 30, 1912.

Ended February 21, 1912.

Scale. 1:80000

(platted on Coast Charts 170 & 171)

C. & G. SURVEY;
 LIBRARY AND ARCHIVES
 NOV 13 1912
 No. No

STATISTICS.

Date.	Vol.	Letter.	Miles.	Sound gs.	Angles.	Positions.	Boat.
1912							
Jan. 20	I	A	15.00	115		26	BACHE
" 24	1	B	17.27	201	164	82	"
" 25	1	C	14.74	226	226	113	"
" 29	1	D	19.00	206		58	"
Feb. 1	2	E	11.40	128	112	46	"
" 2	1	F	22.80	312	282	141	"
" 2	3	F	1.20	21	18	9	"
" 3	3	G	35.00	567	333	170	"
" 9	3	H	27.64	521	428	214	"
" 12	2	I	13.24	213	122	65	"
" 14	4	K	25.18	142	6	42	"
" 16	4	L	36.80	349		81	"
" 17	2	M	41.50	548	486	261	"
" 20	4	N	25.30	380	386	193	"
Mch. 4	4	O	21.00	324	248	124	"
" 5	5	P	37.20	469	251	128	"
" 6	5	Q	15.00	112		26	"
" 6	2	Q	9.00	144	65	36	"
" 6	6	Q	4.70	65	26	14	"
" 7	6	R	12.00	177	127	64	"
" 8	6	S	14.00	175	130	65	"
" 14	6	U	12.00	206	108	55	"
" 15	6	U	6.00	113	114	57	"
" 19	5	V	23.72	257	78	73	"
" 23	6	W	21.00	378	182	91	"
" 29	5	X	11.00	183	138	76	"
" 30	7	Y	27.00	380	266	133	"
Apr. 2	7	Z	35.00	684	428	214	"
" 12	7	A'	.50	21	6	3	"
" 13	7	B'	6.00	76	50	25	"
" 13	8	B'	24.00	329	200	106	"
" 15	8	C'	20.00	397	256	138	"
" 16	6	D'	24.00	446	360	181	"
" 16	9	D'	13.82	197	152	77	"
" 17	9	E'	32.00	546	475	235	"
" 18	9	F'	16.00	332	270	135	"
" 19	10	G'	20.00	344	162	84	"
" 20	10	H'	44.00	574	334	173	"
TOTAL.	10	33	755.01	10858	6989	3843	"
Mch. 7	1	a	5.00	271	156	78	Launch No. 32.
" 23	1	f	8.00	410	143	72	"
Apr. 12	1	g	19.50	664	418	209	"
" 15	2	h	18.75	640	388	194	"
" 19	2	i	12.00	385	246	123	"
" 20	3	k	7.00	270	186	93	"
TOTAL.	3	6	70.25	2640	1537	769	"

Second:-

U. S. SURVEY,
LIBRARY AND DOCUMENTS
NOV 13 1912
Acc. No

STATISTICS.

Boat.	Vol.	Letter	Miles	Sound'gs	Angles.	Positions.
BACHE.	10	33	755.01	10858	6989	3834
Lch. No. 32	3	6	70.25	2640	1537	769
GRAND TOTAL.	13	39	825.26	13498	8526	4603

WIRE DRAG.

Date	Vol.	Letter	Angles	Positions	Boat.
Mon. 3	1	a'	42	21	Launch No. 31.
" 20	1	b'	84	42	"
" 21	1	c'	110	55	"
" 22	1	d'	98	49	"
" 27	1	e'	64	32	"
" 28	1	f'	106	53	"
" 29	1	g'	54	27	"
Apr. 1	1	h'	72	36	"
" 3	1	i'	96	48	"
" 11	2	k'	72	36	"
TOTAL	2	10	798	399	"

Mon. 8	1	a'	38	19	Launch No. 32.
" 20	1	b'	86	43	"
" 21	1	c'	106	53	"
" 22	1	d'	98	49	"
" 27	1	e'	70	35	"
" 28	1	f'	104	52	"
" 29	1	g'	58	28	"
Apr. 1	1	h'	64	32	"
" 3	1	i'	94	47	"
" 11	2	k'	70	36	"
TOTAL.	2	10	788	394	"

Launch No. 31	2	10	798	399
Launch No. 32	2	10	788	394
GRAND TOTAL.	4	20	1586	793

C. & G. SURVEY
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STATISTICS.

BETWEEN DRY TORTUGAS AND REBECCA SHOAL.

Date. 1912.	Vol.	Letter	Miles	Positions	Angles	Sound'gs	Boat.
Jan. 30	1	A	15.17	31	.	108	BACHE.
Feb. 1	1	B	22.00	59	5	221	"
" 13	1	C	21.25	31	6	163	"
" 16	1	D	7.00	25	13	66	"
" 21	1	E	48.00	115		463	"
TOTAL.	1	5	113.42	261.	24	1021	"

WEC
Dec. 20, 1912.

HYDROGRAPHIC SHEET 3387.

Florida Reefs, Florida, by Assistant W. C.

Hodgkins in 1912.

TIDES.

	Rebecca Shoal Light ft.
Mean low water, or plane of reference on staff	2.1
Lowest tide observed " "	0.8
Highest " " " "	4.6
Mean range of tide	1.1

Department of Commerce and Labor

Hyd @ 3387 (213)

In surveying this area, the party took a few lines of soundings eastward and southeastward from Dry Tortugas, Florida Reefs.

The survey was performed by the method of dead reckoning, which depends upon the ship's bearings and the log readings. In most cases the two could not be made to agree. The estimated run had to be neglected and in plotting, the bearings were accepted as correct.

All through the work, with one exception, no allowances were made for corrections in log readings and deviations of compass, and not sufficient information sent to the office to apply these corrections.

The positions were originally plotted in the field, found erroneous in many respects and the entire work replotted.

On the whole the work is not as good as might have been expected, due probably to the unfavorable conditions.

J. P. Shklar

711-13.

Verified - J. D. Torrey

Department of Commerce and Labor

Hydrographic Sheets 3384, 3385, 3386, & 3387

The hydrography of these sheets covers the area between Marquesas Keys and Rebecca Shoal, Florida Reefs.

The positions on the different sheets were plotted in the field and finally supplemented by soundings transferred from the General Sheet #3387, the work on which was performed by the process of dead reckoning. This method is always liable to be at fault, more or less, and a number of soundings, and in at least one case, a full line of soundings, that appeared doubtful, were rejected.

Soundings were plotted in feet, the shallowest place reported (11 feet) being in the vicinity of Rebecca Shoal (See Hyd^e 3386) The survey at the places covered is of sufficient density, the shallow spots, as it would be expected, developed more completely.

Comparing this survey with the previous work (Hyd^e 3300) the new work in a number of localities shows lesser depth.

In addition to the new work a number of soundings were transferred from the old work (Hyd^e 3300) to the different sheets, and are shown in red ink.

The work has not been systematically arranged, is somewhat mixed up, and the crossings are not as good as might have been expected.

J. B. Shklaric

Verified - J. D. Torrey