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DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY	CUBVEY
U. S. COAST AND GEODETIC SURVEY	204AE1
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JUL	JU 10 14
State: Florida Acc. N	φ
11 0010	
DESCRIPTIVE REPORT.	
Hydrographic Sheet No. #1 5022	•
LOCALITY:	
-Jupiter Lighthouse	
to St. Lucie Inlet	
·	
to Jupiter Lighthouse	!
- 19 04 Pirer Lightmouse	
10.70	
19 .750	
CHIEF OF PARTY:	
{C.A. Egner,	
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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY L. & A.

JUL 26 1930

Acc. No.

50

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER NO.

DESCRIPTIVE REPORT TO ACCOMPANY SHEET #1

JUPITER LIGHT TO ST. LUCIE INLET

(a) Instructions

The work on this sheet was done in accordance with Instructions dated December 20, 1929.

(b) Limits

The area covered by this sheet extends from Jupiter Lighthouse to within one mile of St. Lucie Inlet, and from the beach to a junction with Sheet #6, done by the ship. On the south it joins Sheet #4914, surveys of 1989, and on the north it joins Sheet 8 & 4.

(c) Survey Methods

All soundings were taken from the ship's launch with a hand lead. An eight pound lead was used together with mahogany lead line with bronze center. No corrections for lead line were necessary. Control was adequate. It consisted of numerous triangulation and topographic stations, located by standard survey methods.

TOWER was located by descriptive report of 'HILD.

In a few places the topographic signals had been destroyed before the hydrography could be done.

Lines were run out from shore to the area surveyed by the ship on Sheet #6. Where it was found necessary, lines were run between those of the ship, until a depth of five fathoms was reached in order that the spacing between lines would be less than 500 meters.

The topography along this shore was executed by a party of the M.V. Natoma in 1929. No topography, therefore, was done during this season farther than to locate the signals for the hydrography. For that reason, the shoreline was not available for the hydrographic sheet; this explains its omission from the smooth sheet.

(d) Discrepancies

In all places where bottom was smooth, the line crossed satisfactorily. In rough and rocky bottom, a few crossings differed by as much as four feet. No adjustments were thought necessary however.

(e) Dangers

The only danger in this area is a long bar, parallel to and about one-half mile from the shore, beginning at Latitude 27° 06'4, and extending beyond the northern limit of the sheet. The least depth, found in several places is 4 feet. One of these is in Latitude 27° 08'4, Longitude 80° 08'2, Position No. 87, "f" Day. This bar breaks in a moderate swell.

(f) Comparison with previous surveys

The results of this survey agree quite closely with the previous surveys.

(g) Geographic names

No new names are needed

Respectfully Submitted

Hubert A. Paton, Jr. H & G Engr.,

Hebert a. Paton

Forwarded:

Commanding - Natoma.

LIST OF SIGNALS, - SHEET #1

LIST OF SIGNALS, SHEET #1

Jupiter I.H 1929	od of Locat-
Jupiter LH 1929	graphy
Dub	#
Bow Bowe 1929 Trist Try Re	**
Try	ngulation
Ros	
Dia	u Rrahm
Shell 1929 Triangulation Cos Abe Topography Gab Bed "Pot Cat "Oup Dog "Dor Rhd "Pot Fand "Pil Fen "Ban Rock 1929 Triangulation Ged Cato Topography Dip Hide "Fad "Fad It "Get "Fad Kel "Hot "Fad It "Get "Fad Kel "Hot "Fad It "Get "Fad Not "Sum "Flag Not <td>77</td>	77
Abe	 #
Bed	**
Cat	vi
Dog	
Fin	**
Fen	91
Rock 1929	69
Ceto	17
Hide	67
Hide	17
It	17
Kel " In Let " In Mim " Flag Not " Sum Pop " Chim Qua " Chim Qua " Jet Rit " Kid Selt " Lem Top " Mit Use " Out Tower " Royal 1929 Tri Vot " Pod Top Wop " Sel " Xi " Rot " Xi " Rot " Xi " Rot " Xi " Rot " Yea " Vet " Wad Tri Wad Tri Mile " Add Top Wad " Bet " Gros " Did Cobb " Eld " Tri	17
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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Norfe	olk,	Virginia		
	July	23,	,	19 30

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

	H.	_5	0	22		C.	A. Egner	,		Chief of Party.
		POSITION							-	
DESCRIPTION ()	Veme of		Lat	itude	Longitude			Datum	METHOD OF DETER- MINATION	CHARTS AFFECTED
\ -	Signal)	۰	,	D. M. meters	•	1	D. P. Meters	Catum		
Tower		27	00	324	80	05	378		Dist.& Az.from	163
Red House	Red	27	00	1653	80	05	1021		HILD Topo	n
House, large	Pot	27	01	1411	80	05	1558		11	
BathHouse, small	Cup	27	01	1628	80	05	1639		•	Ħ
BathHouse, small	Dor	27	01	1828	80	06	60		•	#
House, small	Pil ·	27	02	270	80	06	149		•	*
House, green rf	In	27	02	1844	80	06	744		**	#
Summer House with		27	03	353	80	06	875		•	11
House, large	Chim	27	03	61.4	80	06	1037		to to	***
Sign Post	Mile	27	08	409	80	08	659			W
							I			
						-				
							L			

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

SECTION OF FIELD RECORDS

REPORT ON SHEET NO. H-5022 DEC. 3-1930.

SURVEYED IN - APRIL - MAY - 1930

CHIEF OF PARTY - C. A. EGNER

SURVEYED BY - HUBERT. A. PATON

PROTRECTED BY - C. A. EGNER & HUBERT. A. PATON

SOUNDINGS PLOTTED BY - C. A. EGNER

VERIFIED &L INKED BY - WARREN . H. BAMFORD

1./ The records were found to enform to the requirements of the general sustructions for Field Work. 2/ The protracting was fairly well Ine - 4.7 % of the position checked were found erroneously plotted. 3/ The spacing of soundings was fairly well done Talthough guité carefessly done in some places -4./The sounding live crossings were found to be adequate sethough occasionally a slight difference exists due in most cares to the lumpy bottom —

5./ The development on shoals was found to be sufficient although a survey on a scale of 1:10,000 would be very dismable month of Lax. 27°-06. 6.) It was possible to draw the usual depth curves. 7.1 The sheet was fairly clean and the work was found to be legible. 8.1 The field platting was completed to the extent prescribed in the Hydrographie rusumal x 9.) Dhe soundings mere sairly well plotted but carelessly spaced in some places. about 11.7% of the soundings were changed by the office doaltoman.

10./ This sheet joins sheet number H-5023 and H. 5031 on the north and sheet number H-4914 om the south - The junctions were found to be satisfactory & 11./ The only authority found for the suntien rocks at approximately
LAT. 27°-04'-300 METERS and LONGITUDE 80°-06-1450M and the rocks awash at approximately LATITUDE 27°-04 - 560 METERS and LONGITUDE 80°-06'-1500M is the appearance of some on the boat sheet accompanying 4.5022 and a note of "ROCKS TO STARBOLRO" in Volume I page 26 of the sounding records for H-5022.

Respectfully Submitted
Warnent Bamford

REG. NO

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No
REGISTER NO.
State Florida
General locality East Coast
Locality Palm Beach and Martin Counties
Scale 1:20,000 Date of survey January , 1920
Vessel Motor Vessel Natoma
Chief of Party. C.A. Egner
Surveyed by F.A. Biddell
Inked by F.A Riddell
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated December 20, 192
Remarks:
This sheet contains only locations of
seath take stations for hyd, surry.
It was temporarily fred with H. 5022
and will be distroyed when the botter
sheer is completed
E Pallis July 29, 193

0

DESCRIPTIVE REPORT

to accompany Sheet

HAN

Jupiter Inlet Northward - East Coast

of Florida.

INSTRUCTIONS:

The work was done in accordance with Instructions

(Project/49) dated December 20, 1929.

PURPOSE:

The only purpose of this sheet was to locate the small hydrographic signals between the traverse stations. The determination of the shoreline, land features and other topographic detail was accomplished last year.

ADJUSTMENTS:

After the field work and inking of this sheet had been accomplished an error was found in the traverse computations between "Jupiter" and "Walk". This error caused a shift in longitude of 6 to 8 meters and a shift in latitude of about one meter to all the stations between "Jupiter" and "Walk". This error while not easily correctable, on the topographic sheet, was taken into consideration in scaling off the DM's and DP's for the smooth hydrographic sheet.

LIMITS:

The limits are Jupiter Inlet and Triangulation Station WALK.

Plane Fable Stations for hyd. Survey

El is tartificated with H. 50 25

and will be destroyed when the F.A. Riddell

Had Shad to Countillated ken order Aid

Respectfully forwarded EPSLAR

Stand to Countillated ken order Aid

Respectfully forwarded EPSLAR

Stages

Grady Ustrue.

PLANE TABLE POSITIONS

	STATION	Latitu	de	D.P. LON	GIT	DE:	D.P.	Height:	Reme	rks
1.	D i lb	26 ⁰	571	10(1837)	800	04 1	766(889)		Banner	signal.
2.	Bow	26	57	302 (1545)	80	04	872 (783)		Ħ	Ħ
3.	Try	26	57	648(1199)	80	04	965(690)		11	11
4.	Ros	26	57	888(959)	80	04	1041 (614)		11	H
5.	Dia	26	57	1112(735)	80	04	1093 562		Ħ	
6.	Ape	26	57	1547(300)	80	04	1217 438		Ħ	
7.	Bed	2 6	57	1798(49)	80	04	1293 (362)		Ħ	
8.	Cat	26	5 8	160(1687)	80	04	1338(317)		Ħ	
9.	Dog	26	5 8	429 (1418)	80	04	1412 (243)		Ħ	
LO.	End	26	58	593 (1254)	80	04	1439(216)		Ħ	
u.	Fen	26	58	735(1112)	80	04	1468(187)		н	
L2.	Geto	26	5 8	1072 (775)	80	04	1545(110)	•	Ħ	
L3.	hide	26	58	1226(620)	80	04	1596(59)		Ħ	
L4.	It	26	58	1494(353)	80	05	40 (1615)		Ħ	
15.	Jid	26	5 8	1828 (19)	80	045	183 (1472)		Ħ	
16.	Kel	26	59	225(1622)	80	0 5	279 (1376)		Ħ	
17.	let	26	59	405(1442)	80	0-5	345(1309)		11	
18.	Mim	26	5 9	598(1249)	80	06	408 (1246)		n	
19.	Not	26	59	860 (987)	80	05	497(1157)		**	
20.	Ode	26	59	1069 (778)	80	05	540(1114)		Ħ	
21.	Pop	26	59	1335(512)	80	05	585(1069)		Ħ	•
22.	Qua	26	59	1456(391)	80	05	598 (1056)		Ħ	
23.	Rit	26	59	1618(329)	80	05	608 (1046)		н	
24.	Selt	26	59	1795 (222) 52)	80	05	637(1017)		Ħ	
25.	Top	27	00	206(52)1641	80	05	682 (972)		n	

PLANE TABLE POSITIONS (CONT'D)

ST	ATIONS	LA	T IT UI	DE D.M.	LON	GITUI	DE D.P.	HEIGHT REMARKS
26	Use	27	° 00'	441 (1406)	80	05	725(929)	Banner signal
7	Vot	27	00	853(994)	80	05	8 05 (849)	n n
88	Wop	27	00	1005(842)	80	05	849 (805)	11
39	x;	27	00	1194(653)	80	05	870 (784)	· •
30	Tel	27	00	1312 (535)	80	05	933(721)	Ħ
51	Yea	27	00	1535(312)	80	05	980 🛣 (674)	Ħ
32	Red	27	00	1655 (194)	80	0 5	1021 (633)	SE Corner Beach
33	Zip	27	od	16(1831)	80	05	1097(557)	house Banner signal
34	We	27	OØ	73(1774)	80	05	1072 (582)	N.E.Corner of
3 5	Are	27	06	493 (1554)	80	05	1258(396)	Shack Banner signal.
36	M 1	27	00	700 (1147)	80	05	1306(348)	Banner signal
57	Pole	27	01	786(1061)	80	05	1290(364)	11 11
38	Bush	27	01	879(968)	80	05	1374(280)	н
59	Cos	27	01	1045(802)	80	05	1393(261)	н
ŀ0	Cab	27	01	1162 (685)	80	05	1475(179)	• n
1	Pot	27	01	1411 (436)	80	05	1558(96)	Flower-pot S of
.2	Cup	27	01	1 625 (219)	80	05	1639(15)	steps. S.E.corner of sh
13	Dor	27	01	1828(19)	80	06	60(1594)	и и и
14	Pil	27	02	270 (1577)	80	06	149(1505)	N.Pillar of Beach
:5	Ban	27	02	438(1409)	80	06	217(1537)	house. Banner signal
-6	Ced	27	02	632 (1215)	80	06	284(1370)	н н
.7	Dip	27	02	805(1042)	80	06	352 (1302)	
8	Eat	27	02	1001 (846)	80	06	42 1 (1233)	n w
9	Fad	27	02	1103(744)	ဆ	06	475₹ 1179)	и и
Ö	Get	27	20	1 353 (494)	80	06	563(1091)	н п

PLANE TABLE POSITIONS (CONT'D)

ST.	ation	LATITUDE	D.M.	LONGITU	DE D.P. HE	IGHT: REMARKS:
51.	Hot	27 ⁰ 0 2 '	1621 (226)	800 061	661 (992)	Banner signal
52	In	27 Œ	1844(3)	80 06	744(909) S.E.	. Corner Frame House
53	Flag	27 03	206(1 ⁶ 41)	80 06	844 (809)	Flag Pole
5 4	Sum	27 03	353(1494)	80 06	875(778)	Center of summerho
55	Chim	27 n 03	614 (1233)	80 06	1037(618)	Center chimney of house.
56	Jet	27 03	1020(824)	80 0 6	1162 (491)	Banner signal
57	Kid	27 03	1362 (485)	80 06	1329[324)	11 11 11
58	Lem	27 03	1815(32)	80 06	1539(114)	•
59	Mit	27 04	462 (1385)	80 07	13(1640)	•
60	Out	27 04	792 (1055)	80 07	130 (1523)	n
61	Pod	27 04	1466(381)	80 07	394(1259)	11
62	Sel	27 04	1840(7)	80 07	564 (1089)	11
63	Rot	27 05	181(1666)	80 07	694 (959)	S.E. Corner main
64	Ute	27 05	480 (1367)	80 07	830 (823)	Banner signal.
65	Tip	2 7 05	732(1115)	80m 07	966 (687)	19 17
66	Vet	27 05	1094(753)	80 07	1165(488)	99 11 89
67	Wad /	27 05	1521 (1326)	80	1386 (267)	11 11
6 8	Yet	27 06	673(1174)	80 08	82 (1569)	n n
69	Z1b	27 06	973(874)	80 08	212(1441)	14 11
7 0	Add	27 06	1294 (553)	80 08	361 (1292)	14 14
71	Соъ	27 06	1542 (305)	80 08	470(1183)	¥
72	Bet	27 06	1802 (45)	80 08	516(1137)	11
73	Did	27 06	379 (1468)	80 08	660 (993)	•
74	Eld	27 06	800 (1047)	80 08	734(918)	
75	Fit	27 06	780 (1067)	80 08	8 675 (877)	п

TIDAL DATA

All soundings were reduced by St. Lucie Inlet tide gauge, located on a jetty, north side of the inlet, about 60 meters from the eastern end.

Mean Low Water - - 0.97 on the staff.

Highest tide --- 5.0 " " "

Lowest tide --0.0 " " "

September 12, 1930

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in 3 volumes of sounding records for

HYDROGRAPHIC SHEET

5022

Locality: Florida East Coast (Supiter Inlet to St. Lucie Inlet)

Chief of Party! C. A. Egner, in 1930
Plane of reference is Mean low water, reading
1.0 ft. on tide staff at St. Lucie Jetty
7.0 ft. below B. M. 1

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.

2. Month and day of month omitted.

3. Time meridian not given at beginning of day's work.

- 4. Time (whether A.M. or P.M.) not given at beginning of day's work.
 5. Soundings (whether in feet or fathoms) not clearly shown: in record.
- 6. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- 8. Location of tide gauge not given at beginning of day's work.
- 9. Leadline corrections not clearly stated.
- 10. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

Acting

Chief, Division of Tides and Currents.

HYDROGRAPHIC SHEET No. 5,0.22

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	.91.7.
Number of positions checked	148
Number of positions revised	7
Mumber of soundings recorded	47!!
Number of soundings revised	.55.2
Number of signals erroneously	
plotted or transferred	ZERO

Date: DECEMBER - 3 - 1930	
Cartographer: Wassen W. Baug	

AND REFER TO NO. 11-WSW

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

March 20, 1931.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 5022

St. Lucie Inlet to Jupiter Lighthouse, Fla.

Hand lead soundings

Instructions dated December 20, 1929. (Natoma)

Chief of Party - C. A. Egner

Surveyed by - H. A. Paton

Protracted by - C. A. Egner, H. A. Paton

Soundings plotted by - C. A. Egner

Verified and inked by - W. H. Bainford

- 1. The records conform to the requirements.
- 2. The plan, character and extent of the survey satisfy the requirements of the General and Specific Instructions except that the distance between the off-shore ends of the lines exceeds 300 meters. Most of these gaps however are covered by lines on the adjoining sheet.
- 3. In general the sounding line crossings are satisfactory. The crossings are excellent where the bottom is smooth and sandy, but in the areas where the bottom is irregular and rocky the agreement is not as close.
- 4. The information is sufficient for completely drawing the usual depth curves except the low water curve.
- 5. The junction on the north with H. 5023 and H. 5031 is satisfactory.

The junction with the off-shore sheet will be reported in the review of H. 5047, which has not yet been verified.

The junction on the south with H. 4914 is satisfactory.

While this work agrees very well with the previous surveys shown on H. 1523b and H. 3522, the recent survey shown on this sheet, H. 5022, should supersede the old work.

- 6. The usual amount of field plotting was fairly well done by the field party.
- 7. Character and scope of surveying good.

The ground is well covered and shoal development is considered sufficient. The field party should have furnished more definite locations and more detailed information concerning the rocks shown close to the shoreline in the vicinity of Lat. 27°04¹. These rocks were placed on the sheet by the office drafts—man. The only authority for them is one note in the sounding record at position 112 b, and the fact that they are shown in ink on the boatsheet. Breakers are frequently noted in this vicinity in the records. The old hydrographic and topographic surveys do not show any rocks, but the original aerial photograph shows some white spots at this ppint. In view of the prominence of these rocks on the boat sheet, it was decided to show them on the smooth sheet.

8. No additional leadline work is recommended but the ridges north of Lat. 27°06' may contain additional shoal depths, which could only be found by the use of the drag.

1.M. Solveralski

9. Reviewed by R. L. Johnston.

December 13. 1930.

Approved:

Chief. Section of Field Records (CHARTS)

Chief, Section of Field Work (H.& T.)

140-1 11-21-60 R. K. Defanch Shydro arried after V&R.

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