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DESCRIPTIVE REPORT

To accompany

TOPOGRAPHIC SHEET "A".

Northeast Coast of Florida.

Crescent Beach to Bikes Prairie.

U. S. S. LYDONIA

A. M. Sobieralski, Com'd'g.

The topography executed on this sheet was in the nature of revision work and was surveyed by a sub-party from the "LYDONIA", composed of one officer and three seamen. The method used in making this survey was the usual plane-table and stadia method.

The portion of the sheet between the northern limits and station Corbett was surveyed in January; the party leaving the ship at Jacksonville on the 22nd and returning to Jacksonville January 26th. No projection had been made at this time and so a sheet was used on which had been plotted the distance between stations Crescent and Corbett. This work was later transferred to the Topographic sheet. Quarters were had, during this period at Middleton's Place, Crescent Beach.

The remainder of the sheet, - that is, the portion between station Corbett and the southern limits was surveyed in March. The party left the ship in Jacksonville on March 13, in the motor-sailer, together with a signal building party under Mr. Mower, reaching St. Augustine that night. The topographic party stayed here until March 19, installing an automatic tide gauge. On that date they left by boat for Summer Haven, and were quartered there for the rest of the work. Excepting two days, working grounds were reached from here by walking along the beach. On the two days excepted the motor-sailer was borrowed from the signal building party to reach the southern end of the work. The sheet was completed on March 30th, the party returning by boat to St. Augustine on that date and then by train to Jacksonville on the following day.

Eighteen small signals were built and located for the launch hydrographic party and the positions of four houses which could be used for hydrography control were determined. They are all given in an accompanying list of plane—table positions. The signals built were not marked as time did not permit of that.

The following traverses were run, with their approximate length and From station Crescent to signal End and back to station errors of closure. From station Crescent to Crescent, a distance of 3850 meters: no error. station Corbett, a distance of 6925 meters: error of closure, 16 meters. This traverse was adjusted. From station Virtrees Chimney to station Corbett, a distance of 2200 meters: no error. From station Box to station Virtrees Chimney, a distance of 3450 meters: mm error of closure 30 meters. traverse was rerun, again rodding in each signal and the topography adjusted for the error found. There was no error in this second traverse. station Scott to station Box, a distance of 4000 meters: no error. station Scott to station Rheems, a distance of 6000 meters: error of closure This last traverse was run before This traverse was adjusted. station Rheems was located, and therefore the error of closure could not be determined until at a later date, when the position was computed. The error of closure is shown on the sheet by a double-headed arrow.

Examination was made along the coast for any features which were not shown on the chart of that locality and these differences were surveyed.

Among these new features are two wrecks, the "Isis" and the "Northwestern". They are both submerged and lie about a quarter of a mile off shore. The "Isis" bares her davits at low water and the "Northwestern" bares a portion of her hull.

There are two small settlements, Crescent Beach and Summer Haven, shown Crescent Beach consists of a few which have not heretofore been charted. cottages and a boarding house. The latter is known as Middleton's and is Summer Haven, in addition to about a dozen situated on the Matanzas River. cottages has a small hotel named Seacrest Inn. The owner runs a small general store and sells gasoline in very limited quantities, usually not There is a post office at both Crescent exceeding 50 gallons at a time. Beach and Summer Haven. Boats which use the inside route in this locality will have sufficient water to make Summer Haven, if they approach it from the northward. There is a rock, awash at low water, which lies about 50 meters off of the hotel dock. Middleton's dock at Crescent Beach is on the Matanzas River and has sufficient water for boats using this river to tie alongside. The only regular means of transportation to these places is by the mail boat from St. Augustine which makes round trips on Mondays, Wednesdays and Fridays. Grescent Beach can be reached by auto from St. Augustine.r

A tracing was made of the surveyed shoreline and compared with two bromide copies of previous surveys. Apparently there has been no change in the general coastline. At Matanzas Inlet, however, there was found to be quite a difference. A comparison of the three surveys is shown on a tracing submitted with this report. The surveys of 1867 and 1872 do not agree well among themselves, especially on the north spit. It is supposed that the cause of this is that the survey of 1872 may have been made after a heavy northeast storm. It is quite evident, however, that the inlet is gradually working to the southward. This would seem to be natural as the channel lies on the south side and there is quite a strong tidal current thru there. Very few boats use this inlet, and then only with good local knowledge. While the party was engaged in topography in this vicinity only one boat was seen to pass out.

This boat followed the south shore, passing from 50 to 75 meters off and then headed straight out thru an opening in the breakers which was not visible to the topographer from shore. This was at high tide, with a fairly smooth The rocky ledge, described in the coast pilot, could not beeseen.

The beacons marking the inside route channel for boats passing the inlet are not shown correctly on the chart, but are described correctly in the Inside Route Coast Pilot. A detail, scale 1/10,000 was made of the Inlet and this shows the positions of these beacons clearly.

Along the shoreline for the entire length of the sheet, with the exception of a strip between stations Box and Scott, is a hard well-packed sandy beach, typical of the beaches along the east coast of Florida. The portion left bare at low water is sufficiently hard to support a heavy vehicle. stations Box and Scott the beach is piled high with bowlders, and along the southern half a rocky ledge could be seen just beyond low water. This ledge was aketched in as closely as possible.

The form, Landmarks for Charts, is submitted with this report, giving the positions of three landmarks. Two of them are the wrecks, heretofore described, - the Isis and the Northwestern. The third is the station Virtrees Chimney. This chimney is a small brick one about ten feet high and is on the largest house at Summer Haven. It can be seen above the skyline when several miles off the beach; further than that it blends into the background. The country along the coast is flat and gives the appearance from seaward of being covered with trees. The trees are about 50 or 75 feet No other landmarks exist in the area covered by this sheet.

The declinatoire could not be made to work properly and therefore no magnetic meridian was drawn.

April 30, 1923.

Respectfully submitted:

R.F.A.Studds. Jr. H. & G. Eng'r.,

Topographer.

PLANE TABLE POSITIONS-

End 29°-47' 898 81°-15' 687' 797' 797' 1988 21°-16' 687' 1687' 1687' 1687' 1687' 1687' 1687' 1687' 1687' 1687' 1687' 1687' 1687' 1689 1689 1689 1699 1699 1699 1699 1699	HYDROGRAPHIC NAME	CIATITUDE	D.M.	LONGITUDE.		REMARKS AND DESCRIPTION
Red	End	29 ⁰ 47		81 ⁰ 15*	976 (6 <u>3</u> 7)	Temperary signal.
Cat 29 - 45 1567 61 - 15 108 Temporary signal. (129) (1405)	Bar	29 46		81 15		Temporary signal.
Cat 29 - 45 802 81 - 14 1471 Temporary signal. Hid 29 - 45 06 81 - 14 1209 [404] Flag 29 - 44 1106 81 - 14 950 Temporary signal. [741] Bell 29 - 45 1804 81 - 14 545 [1068] Top 29 - 42 1155 81 - 13 1142 Temporary signal. [692] You 29 - 41 952 81 - 13 142 Temporary signal. [1462] You 29 - 40 1826 81 - 13 468 (145) Fell 29 - 40 1826 81 - 13 152 Temporary signal. [115] Him 29 - 40 732 81 - 12 1403 Temporary signal. [116] Stud 29 - 39 835 81 - 12 1403 Temporary signal. [116] Stud 29 - 36 1573 81 - 12 349 Temporary signal. [124] Sut 29 - 36 1673 81 - 12 128 Temporary signal. [125] Lone 29 - 36 1802 81 - 11 988 Temporary signal. [1465] Bam 29 - 36 1802 81 - 11 667 Isolated House. [1792] Sun 29 - 35 1662 81 - 11 51 Isolated House. [1787] Femporary signal. [1662] Temporary signal. [1663] Temporary signal. [1664] Temporary signal. [1662] Temporary signal. [1663]	Red	29 46		81 15	· · · · · · · · · · · · · · · · · · ·	Red roofed house.
	Pole.	29 45		81 15	, - , ,	Temporary signal.
Flag 29 44 1106 81 14 950 Temporary signal. (741) 81 14 (653) Temporary signal. (1058) Temporary signal	Cat	29 45		81 14		Temporary signal.
Bell 29 - 43	Mid	29 45	-	81 14		Temporary signal.
Top	Flag	29 44				Temporary signal.
Dune 29 - 42 1155 81 - 13 1142 Temporary signal.	Bell	29 43		81 14	1	Temporary signal.
You 29 - 41 952 81 - 13 468 Second house from N. in group of four. [695]	Top	29 43		81 14		Temporary signal.
Tell 29 - 40 1826 81 - 13 152 Temporary signal. (21)	Dune	29 42		81 13		Temporary signal.
Him 29 - 40 752 81 - 12 1403 Temporary signal. Stud 29 - 39 835 81 - 12 759 Temporary signal. At 29 - 38 1573 81 - 12 349 Temporary signal. Sut 29 - 38 946 81 - 12 128 Temporary signal. Sut 29 - 37 695 81 - 11 958 Temporary signal. Ione 29 - 36 1802 81 - 11 667 Isolated House. (45)	You	29 41	l	81 13	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Second house from N. in group of four.
Stud 29 39 835 (1012) (1012) 81 12 (854) Temporary signal. At 29 38 (1573 (1264)) 81 12 (349) (1264) Temporary signal. Sut 29 38 (946 (901)) 81 12 (128 (1485)) Temporary signal. Buk 29 37 (695 (91 11) (655)) 81 11 (655) Temporary signal. Lone 29 36 (1632 (45)) 81 11 (946) Isolated House. Bam 29 36 (1033 (81 11) (1228)) Temporary signal. New 29 36 (55 (81 11) (1562)) Isolated House. Sun 29 35 (1062 (81 10) (1562)) 81 10 (1562) Temporary signal. Sun 29 35 (1062 (787)) 81 10 (1348) (265) Temporary signal.	Tell	29 40	-	81 13		Temporary signal.
At 29 - 38 1573 81 - 12 349 Temporary signal. Sut 29 - 38 946 81 - 12 128 Temporary signal. (901)	Him	29 40		81 12	4	Temporary signal.
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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

•		U.S.S.	LYDONIA,	JACKSONVILLE,	FLORICA.	
สภาคาสต์าภ					MAY 18 ,	19 23.
DIRECTOR,	U. S. COAST AND	GEODETIC	SURVEY:			

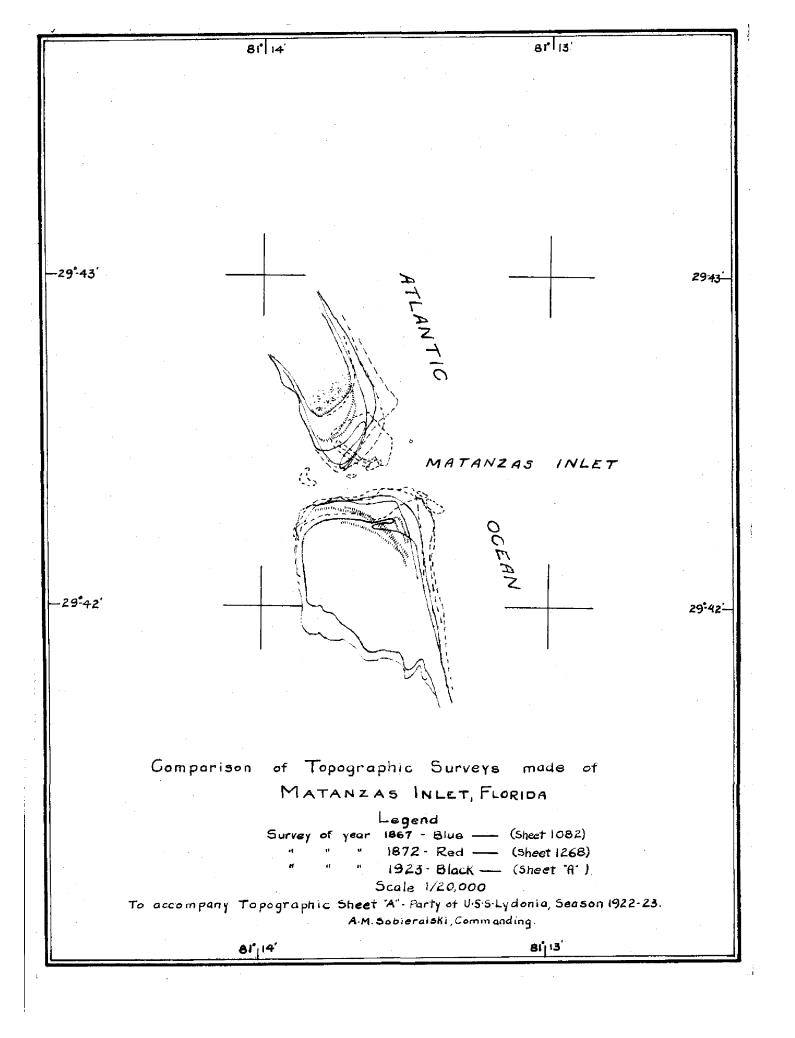
The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

POSITION. DESCRIPTION. Latitude. D. M. meters. D. M. meters. D. D. W. meters. Datum. Treck of "ISIS" (Only 29 - 46 1705 81 - 15 202 U.S. Planetable 169 davits appear at low Water) A Virtree Chimney (Chim-29 - 41 200 81 - 13 882 U.S. Planetable 159 may on top of most prominent house at Summer Haven) Where the continue of th		Chief of Party.						
Treck of "ISIS" (Only 29 - 46 1705 81 - 15 202 U.S. Planetable 159 davits appear at low Water) A Virtree Chimney (Chim-29 - 41 200 81 - 13 882 U.S. Planetable 159 mey on top of most pro- minett house at Summer Haven) Wreck of "NORTHWESTERN" 29 - 35 1150 81 - 10 944 U.S. Planetable 159 (Only a portion of hull	·		Position.					
### D. M. meters. D. P. meters. D. P. meters.	Description.	Lati	Latitude.		Longitude.		Method of deter- mination.	Charts affected.
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showing at low water).	(Only a portion of hull		 					
	showing at low water).				~ ~~ ~~~~~~			
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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.

11—5048



PREFER TO NO. 4-DRM

DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY

WASHINGTON

November 28, 1923.

Section of Field Records

Report on Topographic Sheet No. 4037

Matanzas Inlet, Florida

Surveyed in 1923

Instructions dated November 4, 1922

Chief of Party, A. M. Sobieralski

Surveyed and inked by R. F. A. Studds.

- 1. The records conform to the requirements of the General Instructions.
- 2. The plan and character of the survey fulfill the requirements of the General Instructions and satisfy the specific instructions.
- 3. The junctions with previous surveys are satisfactory. A comparison with them shows that the inlet has moved about 100 meters southward. The shoreline has moved seaward about 30 meters at the north end of the sheet, and it has receded about the same amount at the south end.
- 4. No further surveying is required within the limits of the sheet.
- 5. The character of the surveying and field drafting is excellent.
- 6. Reviewed by E. P. Ellis, November 28, 1923.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 44037 State FLORIDA General locality . NORTHEAST COAST - Matanzas Inlet . . . Locality BEACH TO . BIKES . BRAIRIE Date of survey . . . JANUARY AND MARCH, 1923. 1:10,000 Contour interval . . . feet. Inked by R. F. A. S. . . Lettered by . R. F. A. S. Records accompanying sheet (check those forwarded): Photographs, Descriptive report, Horizontal angle books, Field computations, Data from other sources affecting sheet Extra sheet from which data was transfered to this sheet. Two bromide copies of previous surveys.

Remarks: