4166 E. B. S. SHRVEY

Diag. Cht. No. 1252-2

A00. No.

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: FLORIDA

DESCRIPTIVE REPORT.

Hydrographic Sheet No.

Florida Reefs

South of Marquesas Keys Southern Approach to

Boca Grande Channel

1919 7 1920

C. H. Oben G. C. Mattison >

F.B.T. Siems.

Descriptive Report
to accompany
Hydrographic Sheet
Field No. 3.

Locality:

The hydrography covers the area in the vicinity of Key West, Florida, South of Marquesas Keys, Boca Grande Channel and Boca. Grande Key to and including the reefs bordering on the Straits of Florida.

The larger part of the work on this sheet was performed by the party of G. C. Mattison in 1919, and the sheet was completed a year later by the party of F. B. T. Siems as indicated by the sounding lines shown in red ink on the main boat sheet. This report principally covers the work as executed by the latter party

Methods:

Sounding lines were generally spaced 100 meters and crossed by lines 400 meters apart. The ship was used for practically all of the work on account of using distant signals. It was difficult to run these lines with the ship, in places of variable currents, and numerous split lines were necessary to maintain the minimum spacing of 100 meters. Where the shoals were not distinctly visible, that in north of the outer reefs, they were further developed by additional parallel lines. The outer reefs bordering along the Florida Straits were developed by running short lines over the shoalest appearing parts. The ship was maneuvered to drift or proceed slowly over these places resulting in the discovery of numerous uncharted shoal soundings as indicated on the main boat sheet. Also several coral heads were sight ed, and if it was found necessary a boat was lowered and the least sounding over the same were obtained. Uncharted shoal soundings were reported from time to time to the Washington Offices.

General Description: Except along the outer reefs, the area covered by this sheet is generally of uniform depth, and most of the shoals extend over a considerable area, with no marked variation in depth. These shoals consist principally of coral sand between outcropping levelledges of gray coral rock of slightly shoaler depth, as accertained by the great number of soundings taken. The shoals are not easily discernable, except on a cloudless day and when the water happens to be very clear. The few shoal places of very small extent found between the outer reefs and the keys with depths of about 4 to 5 fathoms are fifficult to see under the best conditions. The reefs on the edges of the Florida Straits, are generally readily seen by virtue of the decided contrast in color between them and the deeper water nearby. From a short distance they appear as a dark yellow streak on the surface of the water.

Upon nearing them the abrupt shoaler parts will stand out as light yellow patches in the coral rock. The shoalest water was generally found directly along the abrupt edges of the reefs except for Coral heads or boulders which are mostly decidedly yellow in color, others appear as shadowy circular patches.

Control:

In addition to the triangulation stations on Marquesas and Boca Grande Key, three water signals were erected and located by theodolite and sextant triangulation, two of these stations were located on Coalbin and Cosgrove shoals respectively, and the third between Marquesas and Boca Grande Key. On account of the detailed hydrography required the larger scale used: 1/15,000, it was thought advisable to use fixed signals located by their coordinates of latitude and longitude to insure a more even distribution of the sounding lines where it was necessary to change objects in obtaining fixes on a distorted boat sheet. One buoy signal with a short scope of line, yet adequately anchored, had to be used to obtain positions for a small amount of work along the southeast part of the sheet.

Plotting:

The positions for the development of Cosgrove Reef were obtained by a vertical distance angle between the top and base of triangulation station Grove and by a horizontal direction angle between this signal and the distant signal South, as fully explained in the sounding record.

A well seasoned smooth sheet should be used for the plotting. It should comprise the area shown on the main boat sheet except that it may be extended further to the westward as otherwise the soundings will plot very close to the west edge.

Harbors:

The channel along the west side of Boca Grande Key can be used by vessels drawing 7-1/2 ft. it extends to a well protected basin surrounded by reefs roughly about 3/2 mile N.E. of Boca Grande Key; the 7 ft. soft bottom channel at M.L.W. leading from the main channel directly to the basin is narrow and has some sharp turns, yet if properly marked it would be practicable to use it. The Hydrographer anchored at the head of the main channel, and intended to use the basin as a refuge in case of hurricane weather, entering the same at high water, see hydrographic sheet (Field No. 2) There is considerable tidal current in the main channel.

Tides:

Tides were observed at Marquesas and Boca Grande Keys.

Respectfully submitted

F. B. T. Siems

Chief of Party, C. & G. S.

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AND REFER TO NO. 9-MILIN

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY WASHINGTON

May 6, 1922.

Verification of Hydrographic Sheet No. 4166. By A. L. Shalowitz, Cartographer.

In verifying this sheet it was found at the outset that the sheet had undergone considerable distortion and owing to the great distance of the signals used, the checked positions did not agree This introduced considerable with the positions as protracted. difficulty, as the difference between the old position and the new position depended upon the distance of the signals and their relative positions. No constant correction could therefore What had to be resorted to was be applied to any one position. this: When the location of a position appeared doubtful it was replotted but with it several other positions usually in the same line where the same set was used. The difference between the old and the new position was thus measured and this distance laid off in the proper direction from the new location of the doubtful position. This naturally delayed the work quite a bit as so many more positions had to be replotted. It is estimated that fully 1000 positions were reprotracted.

The protracting was very good, although frequent errors were made by using the right angle one degree different from the recorded Many doubtful places were left unsolved by the plotter and hence had to be caught up by the verifier. The plotter was careful to join the end of one line with the beginning of the next line by a This is very good practice as it saves considerable time dotted line. in searching for the location of a line. The soundings were excellently plotted, the time intervals being strictly adhered to. every case the shoalest sounding was plotted which was of valuable aid Taken as a whole the plotting of the sheet was very to the inker. well executed, particularly when one considers that not a small amount of positions had to be protracted with a double extension on the protractor.

The records were good, particularly those of G. C. Mattison, and the recording of O. D. Meany and A. Lucas is worthy of special mention. In both cases the general instructions for records were adhered to and the figures were clear and legible. In the portion of the work executed by F. B. T. Siems the records were not so well kept. The recording of C. A. Gandolfo was a little careless and

oftentimes the figures were somewhat doubtful. A practice which the writer thinks should be discouraged is the use of the word "same" for similar objects used. It is plainly evident that an error made in the initial set would be carried on through. This is not only true of the field work but of the office work as well. The plotter might on his original set use one wrong signal. Bearing that used set in mind he would plot all subsequent positions with the same wrong object. The result is obvious.

In Gandolfo's recording he often neglected to make his remarks complete. For instance between positions 123 and 124 P' (ship) no note was made as to the kind of buoy passed. Again, between positions 133 and 134P' (ship), the records simply noted that Boca Grande buoy was abeam but no mention made whether on port or starboard side. Further at 47 U' (ship) mention is made of a rock on starboard side but no distance was given. When shoal soundings were encountered in deep water which appeared somewhat doubtful they should have either been checked or else marked O. K. and initialed in the record. all cases where soundings appeared somewhat doubtful as to existence it was inked in on the sheet, the controlling idea being that the nature of the bottom in that locality was such as to make anything possible. For the same reason crossings which appeared doubtful were On "D" day (ship) where the soundings appeared too shoal at crossings it was concluded after a close study that the discrepancies were due to the choppy sea and the fact that the soundings on this day were taken on the weather side of the ship while those on the cross lines were mainly taken on the lee side. In general the field work is to be considered very good and while the development from a nydrographic standpoint is more than adequate, as closer lines could hardly have been run over the shoals, yet drag work will have to be done before any positive statement can be made as to the least water on the shoals. With this in view it seems to the writer that much time was lost in attempting too close a development, this also being true of the open area where the bottom is fairly uniform and where it is believed that 200 meter lines would have served the purpose just as well.

The positions of E" (snip) around A Grove taken by a vertical distance angle were not inked in on the sheet as they were too close to the signal and moreover no shoaler soundings were found on this day than were already obtained on "S" day (launch).

Hydrographic signals that were temporary in character, such as a boat anchored in the morning, located, and then taken in at night, were not inked in on the sheet. For any future examination these daily

positions can be plotted as the angles are usually recorded at the beginning of the day. No record could be found for the location of O Back, so the boat sheet position had to be used.

It may not be entirely amiss to mention a word or two about the rate of progress made in the verification of this sheet.

Work begun on sheet February 11, 1922.

Sheet completed May 2, 1922.

Total number of days on sheet including overtime - 61. Number days overtime - 6.

Soundings actually inked - 52,000 ±

Approximate number of days spent in studying various problems that presented themselves, which were not taken care of by the plotter - 7.

Number of positions actually reprotracted - 1,000 ± or about 4 days work.

This leaves about 50 days actually spent in verifying and inking 52,000 soundings, or an average of 1050 soundings per day.

The inking of soundings varied from 600 to 2200 per day.

Attention is called to the fact that Z day (ship work) and A' to L' inclusive (ship work) were verified and inked by A. Baer, and that J", K" and P" (ship work) were verified and inked by H. E. MacEwen, during the writer's absence.

In view of the rapid progress made in the verification of this sheet, it is not to be thought that any accuracy was sacrificed for speed. The writer confidently feels that had he devoted twice the time to the sheet, the same degree of accuracy would have resulted.

In conclusion it might be said that much time was saved the inker and he feels sure the plotter by the field parties using, in the main, uniform time intervals between positions. The writer feels that particular pains should be taken in training the recorder to use uniform intervals where possible, as the saving in time on the office work is tremendous.

A. L. Shalowitz,

a. I. Shelwit

Cartographer, C. & G. Survey.

AND REFER TO NO. 4-VEC

DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY WASHINGTON

July 6, 1923.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4166

Vicinity of Marquesas Key, Florida Reef

Surveyed in 1919-20

Instructions dated Dec. 28, 1918 and Jan. 11, 1919.

Chiefs of Parties: C.H.Ober, G.C.Mattison and F.B.T.Siems.

Surveyed by C.H.Ober, G.C.Mattison, F.B.T.Siems and O.M.Straube.

Protracted and soundings plotted by J. D. Torrey.

Verified and inked by A.L. Shalowitz and Alois Baer.

- 1. The records conform to the requirements of the General Instructions. See verification report of A. L. Shalowitz.
- 2. The plan and character of development fulfill the requirements of the General Instructions.
- 3. The plan and extent of development satisfy the specific instructions.
- 4. The sounding line crossings are adequate.
- 5. The information is sufficient for drawing the usual depth curves.
- 6. The plotting of the sheet was done entirely in the office.
- 7. The junction with H. 4138 on the east is excellent, except near Vestal Shoal Buoy where H. 4166 shows marked shoaling. On the southern edge it joins H. 4169b. Most of the soundings on the latter sheet are tube soundings which have been rejected. As a result large gaps south of H. 4166 remain unsurveyed. There are no indications of dangers however in this area.

- 2 Report on Hydrographic Sheet No. 4166 (Cont.)
- 8. With the exception of this area on the southern edge the area covered by this sheet is completely surveyed, insefar as it may be done with the lead. All indications of shoals were closely developed, but as it is very probable that some of the coral heads escaped detection the entire area should be dragged.
- 9. The statistics of this sheet show that 9842 positions were determined and 53097 soundings taken, making it one of the most complete surveys made by the Coast and Geodetic Survey. In view of the necessity of dragging the entire area the advisability of spending so much time on supplementary development is questioned.
- 10. The character and scope of the surveying are excellent.
- 11. Reviewed by E. P. Ellis, July, 1923.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic 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. 4166 Field No. 3

State Florida
Marquesas Key General locality Florida Reefs, Vicinity of Key West. Southern Approach to Boca Grande Channel
Locality Marquesas Keys to Boca Grande Key:
Chief of party C. H. Ober, G.C. Mattison and F.B.T. Siems.
Surveyed by Ober, Mattison, Siems, and Straube.
Date of survey . April .17, .1919 to September .10, .1920
Scale . 1:15,000
Soundings in
Plane of reference
Protracted by J. Derry . Soundings in pencil by J. P. Jerry
Inked by a. C. Showing t. a. Bayerified by . a. S. Y. a. 13
Records accompanying sheet (check those forwarded):
Boca Grande & Marquesas Keys. Des. report, 4 Tide books, Marigrams, 2 Boat sheets,
Angle Books Sounding books, O Wire drag books, O Photographs.
Data from other sources affecting sheet "Triangulation, 1920. 1911

Remarks: No smooth sheet projection made, see Descriptive Report under plotting.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
FORM 28 B

4-4/66

GEOGRAPHIC POSITIONS H4166

Ships copy.

11-4034

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4/1/57 Chart 584 - added 10 fm curve west of long. 82000. M. Roger