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1913-14

3581

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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

O. Pittman
Superintendent.

State: *Hawaii*

DESCRIPTIVE REPORT.

Hyd. Sheet No. *3581*

LOCALITY:

South Coast

Maua Island

1913-14

CHIEF OF PARTY:

J. B. Miller

11-45

3581

DEPARTMENT OF COMMERCE
Coast and Geodetic Survey

O. H. Tittmann, Supt.

HAWAIIAN ISLANDS

SOUTH COAST OF MAUI ISLAND.

A DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET NO. ~~76~~ 3581.

Surveyed by the Steamer PATTERSON, December, 1913
and January, 1914.

REPORT. LIMITS. SCALE. METHODS. OBSERVER.

I have the honor to report as follows upon hydrographic sheet No. 76, which shows inshore hydrography along the south coast of Maui Island, between Kaupo Landing and Cape Hanamanioa, as done in December, 1913 and January, 1914, by a party from the Steamer PATTERSON. The scale is 1:20,000. Lines were run at intervals of 1/8 mile, or closer, the sounding being done with the hand lead, in launch #47. Paul Herberger, Mate, C. & G. Survey, was in charge of the hydrographic party. The sheet connects at its east end with the PATTERSON'S work of February and March, 1913, and at its west end with previously completed hydrography. This sheet completes the sounding around Maui Island.

GENERAL DESCRIPTION

The shore line is rocky and irregular, with occasional pebble or sand beaches at the heads of some of the bights. From Kaupo Landing to a point about 3 miles west of Nuu Landing, the vegetation extends to the shore line, but west of this, the country is almost barren, and composed of bare lava rock.

INSHORE DANGERS

For a distance of 100 or 200 meters off shore, the bottom is generally very irregular. At the western end of the sheet, there is a rocky ledge extending 400 meters off shore, at the outer end of which a sounding of 1 3/4 fathoms was obtained, from which the depth changes abruptly to 9 fathoms. No indication was found of the "reported rock with less than 12 feet over it, somewhere between Pohakueaea Point and Keoneio Bay, within 1/2 mile of shore": (p.25, Coast Pilot Notes on the Hawaiian Islands, 1912) this would doubtless refer to one of the many small boulders close to the shoreline.

ANCHORAGES AND LANDING PLACES.

The anchorages and landing places were mentioned in the descriptive report of 1913 on hydrographic sheet No. 75. Landing west of Nuu is usually difficult.

CURRENTS.

The currents are weak and variable; a current flows northwestward constantly past Cape Hanamanicoa; but anywhere eastward of this the current generally follows the coast to the eastward. It is not a tidal current in either case.

WORK PREVIOUSLY DONE.

Some work on this sheet had been done the previous season, and is so indicated.

SIGNALS.

The location of signals was obtained from the topographic sheets surveyed in 1912. Tidal reducers are obtained from U.S. Engineer's Tide Gauge at Hilo, Hawaii.

SHIP HYDROGRAPHY.

Beyond 30 fathoms, the sounding was done by the Steamer PATTERSON, using Bassnett pressure tubes and vertical casts. The methods of using these tubes and reducing soundings have been explained in previous reports. The soundings were plotted using horizontal offsets backward, as previously explained. The deeper ship soundings were made with the new steam sounding machine, or Sigsbee Machine.

Respectfully submitted,

G. C. Mattison

Aid, C. & G. Survey.

APPROVED:

James B. Miller
Assistant, C. & G. Survey, Chief of Party.

Mahukono, Hawaii,

March 21, 1914.

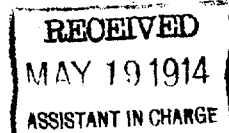
REFER TO NO. 13

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

May 19, 1914.

Assistant in Charge:



I transmit herewith for the Chart Construction Division,
3 volumes of soundings, for Hydrographic sheet 3581, for the
Coast of Maui Island, Hawaiian Islands, by Assistant J. B.
Miller in 1913-1914.

The tide reducers and reduced soundings were entered by
the field party. There is insufficient data in the office
to verify satisfactorily, the plane of reference that was used,
but a comparison with predicted tides indicates that this datum
may have been about 3/4 foot below mean lower low water. As the
evidence is not conclusive, and the probable error is in the
direction of safty and also because the soundings are generally
deep, the reductions as made by the field party have not been
changed.

L. P. Shidy

Chief of Tidal Division.

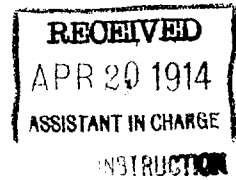
STATISTICS

SHEET NO. ³⁵⁸¹~~76~~

SOUTH COAST OF MAUI ISLAND, HAWAIIAN ISLANDS.

Date	Boat	Let.	Vol.	Hrs.	Pos'ns	Sdgs	(stat.) Miles.
1913							
Dec. 29	Launch No. 47	<i>a</i>	1	9.0	78	298	17.0
" 30	" "	<i>b</i>	1	2.0	17	97	3.0
" 31	" "	<i>c</i>	1	3.0	49	142	7.9
" 31	PATTERSON	<i>A</i>	3	2.5	18	38	9.8
1914							
Jan. 2	Launch No. 47	<i>d</i>	1	7.0	91	271	13.7
" 17	PATTERSON	<i>B</i>	3	9.5	69	224	55.1
" 19	" "	<i>C</i>	3	5.7	40	99	28.0
" 19	Launch No. 47	<i>e</i>	1	5.0	87	283	11.6
" 20	" "	<i>f</i>	1&2	9.0	138	377	18.5
" 20	PATTERSON	<i>D</i>	3	9.7	26	25	41.9
" 21	" "	<i>E</i>	3	9.6	35	73	35.5
" 21	Launch No. 47	<i>g</i>	2	2.0	38	82	4.5
" 22	" "	<i>h</i>	2	6.0	87	231	11.8
" 23	" "	<i>j</i>	2	6.0	81	218	11.5
" 23	PATTERSON	<i>F</i>	3	1.2	9	27	4.3
Mar. 5	" "	<i>G</i>	3	1.5	4	3	3.3
				88.7	867	2488	277.4

AREA Square Stat. Miles 99.2



SHEET NO. ~~76~~ 3581.

MEMORANDUM FOR THE DRAWING SECTION.

This sheet completes the sounding around Maui Island.

Several deep soundings, noted on the ship boat sheet, are not plotted on the fair sheet because they fall outside the limit. They are important and should be plotted on sheet A of 1913.

A handwritten signature in cursive script, appearing to be "J. M. B." or similar, located in the lower right quadrant of the page.

Hyd^e Sheet #3581

The work on this sheet consists of the inshore hydrography along the south coast of Maui Island.

Soundings were plotted in the field, verified and inked in the office.

Onshore dangers are described in the report of the chief of the party. Rocks recorded in the sounding books were located by approximate distances only.

No cross lines, which would afford some check on the work, were taken.

In general the area was fairly well covered and records kept in good shape throughout.

A number of soundings were transferred to this sheet from Hyd^e sheets 3517 + 3519.

Soundings plotted in fathoms.

J. P. Shklear

9/19 - 1914.