

4456

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FORM 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: <u>Hawaii Is.</u>
11-5613
DESCRIPTIVE REPORT.
Hydrographic Sheet No. <u>51</u> 4456
LOCALITY:
<u>Molokai</u>
<u>Pukoo Harbor</u>
<u>1925</u>
CHIEF OF PARTY:
<u>R.W. Woodworth</u>

DESCRIPTIVE   REPORT

to accompany

HYDROGRAPHIC SHEET #5.

of

PUKOO HARBOR

Molokai Island , Terr. of Hawaii

Scale = 1 : 5000

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R.W. Woodworth , Jr. H&G.E.

Chief of Party.

PROJECT : Surveys of Anchorages.

INSTRUCTIONS : Mar. 31, 1925.

DESCRIPTIVE REPORT - HYDRO. SH. #5.

PUKOO, Molokai I.

DESCRIPTION of HARBOR : Pukoo Harbor is the usual small pocket in the coral reef, found so frequently in the long reef extending the south length of Molokai Island.

Its entrance is narrow, with but little leeway on either side of the range track. Inside, the harbor widens to allow sufficient swinging room for the small steamer which calls twice weekly, weather permitting.

In periods of heavy gales breakers extend clear across the entrance so as to prohibit any craft from entering.

ANCHORAGE : At its best during light winds, the anchorage ground is not safe, as a moderate squall is sufficient to cause the MS. LEHUA to drag both anchors.

This fact, coupled with the danger of setting on to the entrance bar, keeps this vessel from making Pukoo in periods of strong winds, at which times freight and passengers for this port are landed at Kamale, which may be entered in all weathers.

The small inner pocket is used at times as an anchorage for some of the smaller motor-ships that make Pukoo.

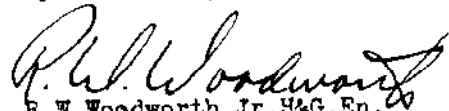
DOCK : The fishing sampans of the locality, 35 to 50 shallow draft motorboats, all use the dock for landing and tying up during blows from the east.

This structure is sadly in need of repair, as practically all of its small supporting wood piles are well eaten thru. Judging from its time of building in 1914, with repairs made twice since, two years more will probably be the limit of its usefulness.

SURVEY METHODS : This survey was made by handlead from a whale-boat propelled by oars. The lead was used in a chair built over the bow, and angles taken within one meter of the leadsman as the leadline was up & down.

Control was by sextant fix on shore signals located by triangulation and plane-table traverse.

Respectfully submitted,

  
R. W. Woodworth, Jr. H&G. En.  
Chief of Party  
1925.

STATISTICS SHEET # 5 .

<u>DATE</u>	<u>DAY</u>	<u>VOL.</u>	<u>POSITIONS</u>	<u>SOUNDINGS</u>	<u>MILES STAT.</u>	<u>BOAT</u>
Apr. 6, 1925	a	1	47	245	2.5	Whaleboat
" . 7, "	b	"	23	108	1.0	"
" . 8, "	c	"	27	115	1.1	"
" . 9, "	d	"	36	161	1.5	"
" . 11, "	e	"	41	221	1.7	"
" . 13, "	f	"	33	134	1.0	"
" . 14, "	g	2	14	58	0.8	"
" . 20, "	h	"	96	326	3.7	"
" . 21, "	j	"	18	51	0.8	"
			<u>331</u>	<u>1419</u>	<u>14.1</u>	

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Unit for soundings = feet.

Location of tide gauge : made fast to west side of wharf;  
lat. 21-04 long. 156-47.

Plane of reference (MLLW), reading on gauge = 0.9'  
Lowest tide observed - - , " " " = 0.7'  
Highest " " - - , " " " = 3.0'

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field records.

June 29, 1925.

~~Division of Hydrography and Topography~~

Division of Charts:

Tide reducers are approved in  
2 volumes of sounding records for

HYDROGRAPHIC SHEET 4454

Locality: **Molokai Island, Territory of Hawaii**

Chief of Party: **H. W. Woodworth in 1925.**

Plane of reference is **mean lower low water and is**  
**0.9 ft. on tide staff at Pukoe Harbor Wharf, Molokai Island, T. H.**

For reduction of soundings, 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 wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each 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



Chief, Division of Tides and Currents.

ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY  
AND REFER TO No.

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

August 20, 1925.

Report on Verification

HYDROGRAPHIC SHEET 4456

The sounding records are complete and well kept.

The protracting and plotting of the soundings were good.

The triangulation is not based on Hawaiian standard datum.

The drafting conforms to the requirements of the general instructions.

The rear range light as given in the buoy list for the 17th district page 9, was not located but a position taken on the range fixes its azimuth.

  
H. R. Edmonston.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON September 11, 1925.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4456

Pukoo Harbor, Molokai, H. I.

Surveyed in 1925.

Instructions dated November 26, 1924 and March 31, 1925.

Chief of Party, R. W. Woodworth.

Surveyed by R. W. W.

Protracted and soundings plotted by G. Risegari.

Verified and inked by H. R. Edmonston.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of development conform to 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 field plotting was completed to the extent prescribed by the General Instructions. The smooth sheet was lost in the office before being verified and inked. It was necessary therefore to replot the sheet in the office.
7. There are no contemporary surveys adjoining this one.
8. The character and scope of the surveying are excellent.
9. Reviewed by E. P. Ellis, September, 1925.

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. (5) 4456

State . . . Territory of Hawaii . . . . .

General locality . . . Molokai Island . . . . .

Locality . . . Pukoo Harbor . . . . .

Chief of party . . . R. W. Woodworth . . . . .

Surveyed by . . . R. W. Woodworth . . . . .

Date of survey . . . April 1925 . . . . .

Scale . . . 1 : 5000 . . . . .

Soundings in feet . . . . .

Plane of reference . . . MLLW . . . . .

Protracted by <sup>G. Risegari</sup> ~~W. A. Brown~~ . . . Soundings in pencil by <sup>G. Risegari</sup> ~~W. A. Brown~~ . . . . .

Inked by . . . . . Verified by . . . . .

Records accompanying sheet (check those forwarded):

\*Des. report, 1 Tide books, 1 Marigrams, 1 Boat sheets,

2 Sounding books,        Wire-drag books,        Photographs.

Data from other sources affecting sheet . . . . .

Remarks: