

4461

4461

Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: HAWAIIAN ISLANDS
11-9618
DESCRIPTIVE REPORT.
Hydrographic Sheet No. 4461
LOCALITY:
Maui
Olowalu Anchorage
1925
CHIEF OF PARTY:
R.W. Woodworth

DESCRIPTIVE -- REPORT

to accompany

HYDROGRAPHIC SHEET #6.

of

OLOWALU HARBOR

Island of Maui , Terr. of Hawaii

Scale = 1 : 5000

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

Chief of Party.

PROJECT : Surveys of Anchorages.

INSTRUCTIONS : Mar. 31, 1925.

DESCRIPTIVE REPORT - HYDRO. SH. #6.

OLOWALU, Maui I.

DESCRIPTION of LANDING : A substantially-built rock and concrete mole extends straight out from shore, with its seaward end far enuf inshore from the reef edge so that the force of the surf is spent by the time it reaches the landing face inside the turn of the mole. Small-craft of draft not exceeding 1 1/2 feet can lay alongside in any weather except a southerly storm.

As the surf breaks across the entrance with the slightest swell, it is best to use the landing at stages of high tide.

Freight is handled weekly by means of heavy cargo lifeboats operating between shore and an inter-island steamer anchored just off the reef. The Olowalu Company uses this landing exclusively.

OUTER ANCHORAGE : With the wind prevailing from offshore, the steamer anchors close in to the reef.

SURVEY METHODS : The waters outside the reef were sounded by hand-lead from a whaleboat propelled by oars. The lead was used in a chair built over the bow, and angles taken within one meter of the leadman as the leadline was up & down.

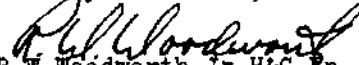
Control was by sextant fix on shore signals located by plane-table traverse.

Over the reef soundings were taken with a bamboo pole marked to foot intervals. Soundings were taken by a man walking range lines, the spacing being kept uniform by means of marked line attached to him and let out at even intervals by a man ashore on the line of the range.

On a signal from the recorder cuts were taken to the sounder by officers stationed at two topo. stations giving a good intersection at the place of sounding.

The days these soundings were taken were the best, as regards condition of the sea, had during the period the party stayed at Olowalu. Nevertheless, there was a 2 to 3 foot surge and break thruout this area, it being particularly noticeable from the end of the mole out to the 6 foot curve. For this reason the soundings obtained cannot be depended upon to be within better than a half foot of the correct depth.

Respectfully submitted,


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

STATISTICS SHEET # 6 .

<u>Date</u>	<u>Day</u>	<u>Vel.</u>	<u>Positions</u>	<u>Soundings</u>	<u>Miles Stat.</u>	<u>Boat</u>
Apr. 30, 1925	a	1	72	259	4.0	Whaleboat
May 1, "	b	"	69	248	3.6	"
" 2, "	(a)	2	55	195	0.8	None
" 4, "	(b)	"	46	152	0.6	"
" 5, "	(c)	"	<u>12</u>	<u>27</u>	<u>0.4</u>	"
			254	881	9.4	

Unit for soundings = feet.

Location of tide gauge : made fast to protected face
of Olewalu wharf; lat. 20 - 49
long. 156 - 37 - 30.

Plane of reference (MLLW), reading on gauge = 0.5'
Lowest tide observed - - , " " " = 0.7 ft.
Highest " " - - , " " " = 2.7 "

field records.

July 20, 1925.

~~Division of Hydrography and Topography:~~

Division of Charts:

Tide reducers are approved in
volumes of sounding records for

8 HYDROGRAPHIC SHEET

Locality: **4481**

Chief of Port ~~Island of Navi,~~ Territory of Hawaii

Plane of reference is

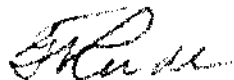
ft. on tide staff ~~at~~ **Woodworth in 1925.**

0.5

**mean lower low water and is
Olowalu Wharf, Island of Navi, 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.

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

September 14, 1925.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4461

Olowalu, Maui, T. Hawaii

Surveyed in 1925

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

Chief of Party, R. W. Woodworth.

Surveyed, protracted and soundings plotted by R. W. Woodworth.

Verified and inked by H. R. Edmonston.

1. The records conform to the requirements of the General Instructions, except that boat's courses were not given.
2. The plan and character of development conform to the requirements of the General Instructions, but one or two cross check sounding lines would have been desirable.
3. The plan and extent of the survey satisfy the specific instructions.
4. The sounding line crossings are adequate and the information is sufficient for drawing the usual depth curves.
5. The junctions with the adjoining sheets are satisfactory.
6. The usual field drafting was done by the field party.
7. No further surveying is required within the limits of the sheet.
8. The character and scope of the surveying and field drafting 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. (6) 4461

State Territory of Hawaii

General locality ~~Island of Maui~~

Locality Olowalu Anchorage

Chief of party R. W. Woodworth

Surveyed by R. W. Woodworth

Date of survey April-May, 1925

Scale 1 : 5000 (sub-plan of reef 1 : 1000)

Soundings in feet

Plane of reference MLLW

Protracted by RWW Soundings in pencil by RWW

Inked by Verified by

Records accompanying sheet (check those forwarded):

- * Des. report, 1 Tide books, _____ Marigrams, 2 Boat sheets,
- 2 Sounding books, _____ Wire-drag books, _____ Photographs.
- Data from other sources affecting sheet

Remarks: