

4790

Diag. Cht. No. 4115

4790

Form 504

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

....., Director

G. & G. SURVEY
L. & A.
Oct 1928
Acc. No.

State: Hawaiian Is.

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. **4790**
~~Hydrographic~~ }

LOCALITY

West Coast of Hawaii

Kailua Bay

1928

CHIEF OF PARTY

T. H. Maher

GOVERNMENT PRINTING OFFICE

S-11 4v

October 3, 1928.

EAT

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET
4790

Locality:

KAILUA BAY, WEST COAST OF HAWAII.

Chief of Party:

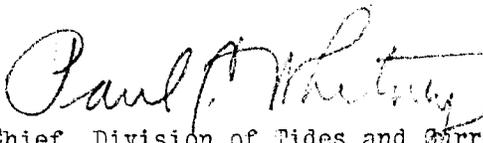
Plane of reference is **T. J. Maher, 1928.**
ft. on tide staff at **M. L. L. W.**

0.8 **Maopoo**

1.9 " " " " " **Kailua**

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 in 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.

Report on sheet # H 4790
Chief of Party - P. J. Maher
Contracted by - V. M. Gittens
Checked & inked by - F. S. Estline

Surveyed in 1928
Surveyed by H. C. Warwick and
V. M. Gittens
Soundings plotted by V. M. Gittens

1. There was no written report from the field included in the descriptive report of the sheet. The sounding records were fairly neat. The "red day" notes were better than the blue day "notes". The remarks "on rock" and "in the rock", were loosely used. In many instances "rocky" would have been much better.
2. Triangulation station Kailua (N. Pier) was plotted seventy five meters to far west. ^{this station, however, this signal was not used.} The plotting was fairly good. About 48% of the positions were checked and not quite 2% had to be reprotracted.
3. The time interval, in plotting the soundings, was adhered to spasmodically. The spacing would be good for a while, then, for a distance of three or four positions, the variations of time would be ignored. Nearly 8% had to be replotted for this reason. A little over 4 1/2% had to be changed because of misinterpretation, and 1.6% were changed on account of a new tide gauge.
4. The sheet was very clear and the work was neat except that the anchor rock symbols were "X's" instead of "+s".
5. The drafting conformed with the General Instructions except as stated in "3".
6. Nine rocks were left off of the month sheet.

Respectfully Submitted
Frank S. Estline

November 17, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

March 28, 1929.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4790

Kailua Bay, West Coast of Hawaii

Surveyed in 1928

Instructions dated November 3, 1927 (GUIDE)

Chief of Party, T. J. Maher.

Surveyed by H. C. Warwick, V. M. Gibbens.

Protracted and soundings plotted by V. M. G.

Verified and inked by F. G. Erskine.

1. The records conform to the requirements of the General Instructions with the exception that notations such as "on rock" should have been placed in the "Remarks" column instead of in the "Bottom Characteristics" column. In many cases the notation "rocky" would have been more appropriate than the notation "on rock."

It is further recommended that, in order that an accurate interpretation can be made of the records, all notes in the remarks column be properly referenced in the time or sounding column by an asterisk or other suitable mark.

2. The plan, extent and character of the survey conform to the specific instructions with the exception that between the 5 and the 20 fathom curves the lines are spaced much closer than appears necessary considering the comparatively smooth bottom, whereas some additional soundings would have been desirable to the south and east of the dock.
3. A comparison of adjacent sounding lines shows a good agreement.
4. The information is sufficient for drawing the necessary depth curves.
5. The usual field plotting was done by the field party, but was found defective in the following respects:
 - a.  Kailua (N. Mer.) was plotted about 75 meters too far west. This signal was, however, not used in the hydrography.
 - b. The time intervals for the soundings were not always adhered to, particularly where they were irregular.

c. The inking of sunken rock symbols was carelessly done in most cases, x marks were made instead of simple crosses.

6. The junction with H. 4798 will be taken up when that sheet is reviewed.
7. On account of the detailed nature of this survey it should supersede all other sources of information heretofore used for the compilation of the chart.

The 5 fathom sounding shown on chart 4115 in Kailua Bay in long. 156° 00' was probably plotted from the Hawaiian Government survey of 1883 (Accession No. 12040). As this survey contained no projection, the sounding was probably swung in as best as could be done, and due to the smallness of the chart scale, was plotted too far offshore. It falls in about 10 fathoms on the new survey and can therefore be expunged from the chart.

8. No additional work is necessary.
9. Reviewed by A. L. Shalowitz, November, 1928.

Approved:

Chief, Section of Field Records (Charts)

Chief, Section of Field Work (H. & T.)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY
L. & A.
JUN 11 1928
Acc. No.

REG. NO. 4790

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 5 4790

REGISTER NO.

State ~~Territory of Hawaiian Is.~~

General locality West Coast of Hawaii

Locality Kailua Bay

Scale 1/5000 Date of survey April 11, to 21, 1928

Vessel Steamer Guide

Chief of Party Thos. J. Maher

Surveyed by H. C. Warwick, V. M. Gibbens

Protracted by V. M. Gibbens

Soundings penciled by V. M. Gibbens

Soundings in fathoms feet

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by F.G. Erskine

Verified by F.G.E.

Instructions dated November 3, 1928

Remarks: Work on this sheet included 3 volumes Whaleboat and
1 volume Motor Sailer

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 4790

The following statistics will be submitted with the
cartographer's report on the sheet:

Number of positions on sheet .1508.
Number of positions checked .730.
Number of positions revised .29.
Number of soundings recorded .495.6.
Number of soundings revised .686.
Number of signals erroneously
plotted or transferred1. . . .

Date: November 17, 1928
Cartographer: Frank G. Estline

Applied to compilation #140 J.M.A. June 1941