

5337

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Form 504

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: Territory of Hawaii.

11-5613

DESCRIPTIVE REPORT.

Hydrographic Sheet No. 24 5337

LOCALITY:

MAALAE BAY

MAUI ISLAND

T. H.

DESCRIPTIVE REPORT

TO ACCOMPANY HYDROGRAPHIC SHEET No. 24.

U.S.C. & G.S.S. PIONEER

O. W. Swa

DATE OF INSTRUCTIONS

Instructions covering the work performed on this sheet
August 19, 1930.

LOCALITY

Maalaea Bay, Maui Island, Territory of Hawaii.

SURVEY METHODS

The ship used the fathometer for sounding, while the land lead.

Control was by visual fixes on triangulation and topography.

For fathometer corrections and method of computation see report, O. W. Swainson, Season 1930, 1931, Project 69.

DISCREPANCIES

No discrepancies were noted when smooth sheet was plotted.

DANGERS

No dangers of importance were noted on the sheet.

CHANNELS

No channels in area covered by the sheet.

ANCHORAGES

Refer to tracing No. 2 (portion of sheet 2456)

The new and old survey check very well, there being soundings that do not check. There are shown several near east end encircled in red ink and note stating that these soundings appear too deep.

GEOGRAPHIC NAMES

No new Geographic Names were assigned on the sheet.

STATISTICS

	Stat. Mi. Sndg. Lines	Number of Soundings
Ship	163.5	1896
Launch	39.0	895
TOTAL	202.5	2791



O . W. Swain
H. & G. I.
Commander

TIDAL NOTE

The autoportable tide gage and staff was established and used to reduce the soundings on this sheet. The record was of sufficient length only to obtain a simultaneous with Honolulu. The staff was read while hydrography was after gage was removed.

CHIEF OF PARTY'S REPORT OF INSPECTION
OF SMOOTH SHEET.

The sheet was plotted and soundings pencilled by (draftsman. The sheet was verified by J. R. Jahn, draft following manner. A tracing of the smooth sheet was co the boat sheet and any discrepancies found corrected on The plotting and spacing of the soundings was ^{or} verified cord.

The writing of the report was done by C. J. Wagner G. Engr. The sheet and records are recommended for :



O. W. Swainson,
H. & G. Engineer
Commanding PION

DESCRIPTIVE REPORT

To Accompany

Sheet ~~T-24~~

D — *filed as Boat Sheet*

West Coast Maui Is.

AUTHORITY

The area covered in this work was done with instructions dated August 19, 1930, Project #

GENERAL DESCRIPTION

This work consisted in the lo to be used in the hydrographic survey of the area : Long. $156^{\circ} 27'$ to Lat. $20^{\circ} 44'$, Long $156^{\circ} 27\frac{1}{2}'$.

METHOD

The method of traverse was used throughout nal 'At' was transferred from Sheet T-51 (called s: traverse was run from At to triangulation station l error. A traverse was run from Hunt to signal Us within the allowable error. As no triangulation s: recovered at the northern end of the sheet to end cuts were taken at the last signal to triangulation sheet, which, when plotted, checked the traverse r

SCALE

Work on this sheet was done on a scale of :

Approved and forwarded:

P.L.
P. L.
Lieut
U.S.A.

Decemb

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in
3 volumes of sounding records for

HYDROGRAPHIC SHEET 5337

Locality Maalea Bay and Southward, Maui Island, T. H.

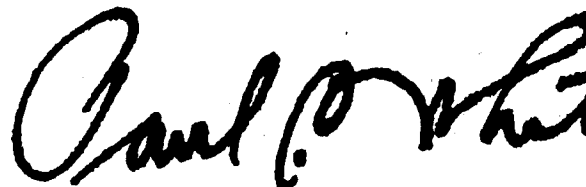
Chief of Party: O. W. Swainson in 1931

Plane of reference is mean lower low water reading
2.2 ft. on tide staff at Makena Bay
4.5 ft. below B. M. 1 (1931)

Height of mean higher high water above plane of reference

(In Vols. 1 and 2 tide reducers were less than 1 percent
have not been entered).

Condition of records satisfactory except as noted below:



Chief, Division of Tides and

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Section of Field Records.
Report on Hydrographic Sheet No. 533

Chief of Party - O. W. Swainson.
Surveyed by - O. W. Swainson + R. Bernat.
Plotted by - C. W. Mevard.
Sounding checked by - C. W. Mevard.
Verified by - J. M. Geskard.
Indexed by - J. M. Geskard.

The records were neat, legible
except no notation of bottom character
casts on off-shore soundings.

All plotting and the verify
of soundings in complicated areas were
Murray.

Ropes 21-33 ft lat 25.44' long
found to be weak.

The soundings were correctly at
time intervals + the fractions conform
Hydrographic Manual. Crossing line.

The field drafting was neat +
line was added to the sheets in the
top sheets 3277 + 2462.

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SECTION OF FIELD RECORDS
Review of Hydrographic Sheet No. 5337
West coast of Maui, Hawaiian Islands
Surveyed in 1931
Fathometer and hand lead soundings
Instructions dated August 19, 1930. (Pioneer)

Chief of party - O. W. Swainson.
Surveyed by - O. W. Swainson, P. L. Bernstein.
Protracted and soundings plotted by - C. W. Menard.
Verified and inked by - I. M. Zeskind.

1. The records conform to the requirements of the Hydrographic Code except that no bottom characteristics were recorded when vertical soundings were taken.
2. The character and extent of the survey satisfy the specifications.
3. Sounding lines cross in only one or two places. Adjoin fairly well.
4. The information is sufficient for completely drawing the chart with the exception of the 20 fathom curve in a few places. The soundings from H. 2456 were used in conjunction with those of this survey, H. 5337, in determining the curve in these areas.
5. The junction on the west with the contemporary survey, H. 5337, is satisfactory.

This work joins the survey of 1900, H. 2456, on the north side. In general the soundings agree fairly well. In the area of Lat. 20°-46'.2, Long. 156°-29', a number of shoal soundings were not crossed by any lines on the new work and a check on these soundings would have been desirable. The work occurs in approximate Lat. 20°-43'.9, Long. 156°-28'.1 where the soundings are deeper than the later ones. The chief of party examined the old soundings and says they "appear too deep". However the lines on the new work, H. 5337, are so extremely weak that it was decided to omit positions 24b and 25b and the soundings deeper than 20 fathoms and to use the soundings from H. 2456 in this area. From a comparison of the records of H. 2456 the survey appears fairly reliable and controlled by three point fixes and soundings were obtained along the line.

At the junction on the south with the survey of 1904-5,

see
S
P


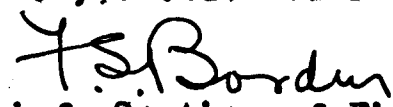
H. 5337 - 2.

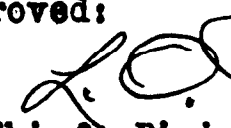
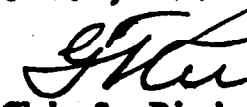
It is recommended that H. 2459 be completely* superseded by H. 5337.

6. No topographic survey was made in conjunction with this sheet on which topographic signals were located, for use by party, has been filed as a boatsheet for H. 5337. The shore sheet has been added, in the office, from old topographic s

7. The area within the limits of this work has been fairly but there are numerous shoal spots and shoal indications fr fathoms in the northern part of the sheet which were not de there are possibilities of shoaler depths on these, they sh examined at some future time.

8. Reviewed by R. L. Johnston - January 16, 1934.

Approved

L. O. Colbert,
Chief, Section of Field Records.

Chief, Section of Field Work.

Examined and approved:

Chief, Divis

Chief, Divis

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

U. S.

HYDROGRAPHIC TITLE SHEET

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

Field No. 24REGISTER NO. **5337**

(3) State Hawaiian Islands

(1) General locality West Coast of Maui *High*

Locality Maalaea Bay and Southward

Scale 1-20000 Date of survey Jan., & Feb.

Vessel U. S. C. & G. S. S. PIONEER

Chief of Party O. W. Swainson

Surveyed by O. W. Swainson & P. L. Bernstein

Protracted by C. W. Menard, Draftsman

Soundings penciled by C. W. Menard

Soundings in fathoms ~~feet~~

Plane of reference Mean Lower Low Water

Subdivision of wire dragged areas by _____

Inked by _____

Verified by _____