# 4649

PURSUANT TO DOC SYSTEMATIC REVIEW GUIDELINES AS DESCRIBED IN SECTION 3.3(a), EXECUTIVE ORDER 12356.

	Form 504
	DEPARTMENT OF COMMERCE  U. S. COAST AND GEODETIC SURVEY
	, Director
(J)	State: Hawaiian Js.
4	DESCRIPTIVE REPORT  Topographic   Sheet No. 4549
20	Hydrographic Sheet No. 40143
	LOCALITY
H III	W. Shore of Oahu
1	Kepuhi Pt, to Makua
	192 6
	CHIEF OF PARTY
	E.R.Hand

PURSUANT TO DOC SYSTEMATIC REVIEW GUIDELINES AS DESCRIBED IN SECTION 3.3(a), EXECUTIVE ORDER 12356.

## **DECLASSIFIED BY NOAA**

U. S. COAST AND GEODETIC SURVEY GUIDELINES AS DESCRIBED IN SECTION 3 3(a) EXECUTIVE ORDER 12356.

## HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when

4649

U. S. Coast and Geodetic Survey.

the sheet is forwarded to the Office.

Register No. 17 4649
State Forr. of Hawaiian Islands
General locality West shore of Oahu
Makua Locality . Kepuhi Point to **rig, **station WIFF
Chief of party . Eoline R. Hand,
Surveyed by
Date of survey May - June, 1926.
Scale . 1:5000
Soundings in . feet
Plane of reference .MLLW
Protracted by C.S.Merek.#. Soundings in pencil by
Inked by Verified by
Records accompanying sheet (check those forwarded):
Des. report, Fide books, Marigrams, Boat sheets,
2 Sounding books, Wire-drug books, Photographs.
Data from other sources affecting sheet

Remarks:

Tide gauge at Tokai Bay, (Walanae) Book accompanied sheet No. 14.

PURSUANT TO DOC SYSTEMATIC REVIEW GUIDELINES AS DESCRIBED IN SECTION 3.3(a), EXECUTIVE ORDER 12356.

## DECLASSIFIED BY NOAA REPC RURSUANT TO DOC SYSTEMATIC REVIEW

DESCRIPTIVE REPC

To accompany hydrographic sheet No. 15, Kepuki Pt. to sta. "HILL", W. Coast Oahu, T.H.

7/17/26

Eoline R. Hand, Chief, of Party IVE ORDER 12356.

Sheet No. 15 is notable for its magnificent stretches of sand beach; and even much of the low, flat rock shore hears a heavy line of sand, thrown back upon it by storm high water, so that from well offshore this coast coming up over the horison must appear like an almost continuous sandy stretch. With one exception the hydrography offers no outstanding peculiarities, the bottom being faitly regular, composed of sand and coral: but that one is the remarkable submarine ledge just off Kerp 1 Pt. Here the bottom drops away from seven fathoms abruptly, cliff-like.

The best landing is off Kakua, as indicated on sheet. It owes its advantages to to a steep sand beach with deep water close-te, and to being at the head of the great bight formed between Kaena and Kepuhi Pts. It is not, however, as good as the best on sheet No. 14. As to landings, I call attention to par. 1 of report on sheet No. 1, and to par. 2, report on sheet Mo. 2, mand also refer to my statement in a previous report to the effect that while successful landings might be made on open stretches of beach the party might ordinarily not be so successful in hauling their boat out. For such a deep indentation is to be preferred, with plenty of water at the entrance, and parallel (orbetter, flairing) sides toward a sand beach. There is none such on this sheet: on sheet No. 14 is one (off sig. "Lan") that only partially fulfilled the requirements: but in lieu of nothing better it was used frequently by the sounding party.

There are other landings, and lesser in importance or value, described in detail upon the sheet. They are labeled from "possible" to "fair". The one marked "good" (at "Van") is so designated because the slightly deeper water, and the projecting L.W. line at each end, seems to me to give it an "edge" over those apparantly of equal importance, marked "fair". These notes, it is understood, apply for ordinary conditions: but (AFTER the Makua landing) and with considerable swell anning directly in from the west, making a dubious surf off all the "fair" landing beaches, careful consideration as a probably practical landing place must be given that extensive, smooth, sea-growth covered, awash leigh at sig. "Trl" Here is leep water close to a vertical edge. With boiling surf at nearly all the other landings, here a smallhoat under skillful ears could be backed in and held close to this ledge while designated men watched their chance and made a jump for it, gaining the higher rock agross the flat between the washes from the recurring swells.

The Cahu Railway parallels this coast. There is an indifferent wagon road from the south to Makua: autocars should not attempt it. The road continues as a trail north from Makua.

Soundings are reduced to MLIN. An automatic gauge was maintained at Pokai

No inside topography is shown: an analysis of the shoreline only was called for in the original Instructions for the survey from the Hawaiian Department. It was the intention of the Department to have the inside work done by later parties: as a tie for such sheets I have frequently noted and described various objects most of which can doubtless be recevered. The irmy Instructions for the work are dated January 28, 1924 (Engr. 600.93)

Nothing conclusive was learned about currents along this shore: they are

slight.

Original to Dept. Commander (G2)
Hawaiian Department,
Eonolulu. T.H.

DECLASSING R. Hand NO

Eline 9. Wand

PURSUANT TO DOGGICSTEMATIC REVIEW GUIDELINES AS DESCRIBED IN SECTION 3.3(a), EXECUTIVE ORDER 12356.

LIST OF STATISTICS
To accompany hydrographic sheet No.15, Kepuhi Pt. to Triangle Sta. Mill.

Foline R. Hand, Chief of Party.

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. 1		. 4.5	266	•	61		• .	O	20
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Whaleboat		2.7	200		50		_	æ	May 12
Veaaels.	te.	. Miles,	Sound-	1	Posi- tions	l l	Vol- ume	Letter	Date, 1926

LIST OF STATISTICS
To accompany hydrographic sheet No.15, Kepuhi Pt. to Triangle Sta. Mill.
Ecline R.Hand, Chief of Party.

Total	. 2	June 10 h 2	. <b>8</b> . 2 .	. 2	w 27 £	# 22 • . ! .	m 21 d	m 20	19 b	May 12,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Date, 1926 Letter . Vol.
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. 3021	412	346	438	3	321	303	376	266	2 <b>53</b>	200	Sound-
46.8	. 4.8	4.3	2	1.6	6.0	3.9	5.5	. 4.5	5.3	2.7	Miles.
• •	3	•	. 4		•	. 3	: 35	. 3		Whaleboat	Yonnels.

AND REFER TO NO. 11-DEM

#### DEPARTMENT OF COMMERCE

#### U. S. COAST AND GEODETIC SURVEY

WASHINGTON

August 20, 1927.

#### SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4649

Off west coast of Oahu - Hawaiian Is.

#### Surveyed in 1926

Instructions dated January 28, 1924 (Army Instructions)

Chief of Party, E. R. Hand.

Surveyed by E. R. Hand.

Protracted and soundings plotted by C. S. Merek.

Verified and inked by F. B. Kelly.

- 1. The records conform to the General Instructions.
- 2. The plan and character of development conform to the General Instructions.
- 3. Since no copy of the specific instructions is available it is assumed that the work conforms.
- 4. There are no cross lines.
- 5. The usual depth curves, with the exception of parts of the zero and 6 ft., can be completely drawn.
- 6. The usual field plotting was done by the field party but the dotted line shown along the shore to indicate the sand edge at low water is not verified by soundings. In some cases, especially off O Wig, there is a sounding of 12 feet inside of this shore line.
- 7. Only 6 fixes had to be replotted, of a total number of 794.
  - All the soundings between 13 G and 57 G had to be increased by 1ft. due to office changes in the tide reductions.
- 8. The junction with H. 4583 on the south is good.

- 9. No further surveying is needed.
- 10. Character and scope of surveying, good. Field drafting, excellent.
- 11. Number of positions, 794
  Number checked, 257
- 12. Reviewed by F. B. Kelly, August, 1927.

Approved:

Chief, Section of Field Records (Charts)

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

PURSUANT TO DOC SYSTEMATIC REVIEW GUIDELINES AS DESCRIBED IN SECTION 3.3(a), EXECUTIVE ORDER 12356.

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO NO. 11-DRM

#### DEPARTMENT OF COMMERCE

#### U. S. COAST AND GEODETIC SURVEY

WASHINGTON

October 14, 1927.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4649

West Coast of Oahu, Hawaiian Islands

Surveyed in 1926

Instructions issued by U. S. Army

Chief of Party, E. R. Hand.

Surveyed by E. R. H.

Protracted and soundings plotted by C. S. Merek.

Verified and inked by F. B. Kelly.

- 1. The records conform to the requirements of the General Instructions except that no leadline comparisons appear anywhere in the record, the only reference thereto being a note at the beginning of each day's work, "Leadline correct."
- 2. The plan and character of development fulfill the requirements of the General Instructions except that split lines should have been run over some of the shoals found. These will be mentioned below.
- The specific instructions not being available, it is assumed that the work conforms.
- 4. No cross lines were run, but a comparison of closely spaced adjacent lines, where the bottom is not too irregular, shows a good agreement.
- The usual depth curves could be completely drawn with the exception of parts of the 6 foot curve which lies very close to the beach.
- 6. The usual field plotting was done by the field party and was very satisfactory, with the exception that the low water line was transferred from the topographic sheet without making an adjustment for the hydrography.
- 7. The junction with H. 4583 on the south is adequate.

A rough comparison with H. 3292 (surveyed in 1911) shows a generally good agreement.

PURSUANT TO DOC SYSTEMATIC REVIEW GUIDELINES AS DESCRIBED IN SECTION 3.3(a), EXECUTIVE ORDER 12356.

- of this character, it is difficult even with a close system of lines to obtain the least depth on all the coral heads. It is therefore suggested that if practicable wire drag work be done over the more important shoals. Otherwise additional sounding lines should be run. Those considered as requiring additional work are the following:
  - a. The 13 foot spot in lat. 21°31' 505 m., long. 158°14' 208 m.
  - b. The 17 foot shoal in lat.21°31' 125 m., long. 158°14' 455 m.
  - c. The 13 foot spot in lat. 21°30'1550 m., long. 158°14' 230 m.
  - d. The 11 foot shoal in lat.21°30' 620 m., long. 158°14' 295 m.
- 9. Character and scope of surveying very good. Field drafting excellent.
- 10. Reviewed by A. L. Shalowitz, October, 1927.

Approved:

Chief, Section of Field Records (Charts)

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

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO NO. 11-DRM

### DEPARTMENT OF COMMERCE

#### U. S. COAST AND GEODETIC SURVEY

WASHINGTON

October 14, 1927.

#### Memorandum from Verifier's Report

Number	of	positions	on sheet	794
11	11	# -	checked	2,57
11	11	<b>1</b> †	in error	6

F. B. Kelly



Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in volumes of sounding records for

HYDROGRAPHIC SHEET

4649

Locality:

CAMU. THERITORY HAWAII.

Chief of Party: E. R. Hand, 1926.

Plane of reference is

ft. cn tide staff at

Waishae.

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.

Mudl

Chief, Division of Tides and Currents.

## NAUTICAL CHARTS BRANCH

## SURVEY NO. <u>H-4649</u>

#### Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
4/9/46	4136	D.H. Benom	Petere After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.