3.3(a), EXECUTIVE ORDER 12356

		_	
DEPARTMENT	OF	Co	MMERCE
U. S. COAST AN			

YAVRU2 .8 &

MAY 1 8 1928

State: Hawaiian Is

DESCRIPTIVE REPORT regraphic | Sheet No. 4779

Topographic Hydrographic

LOCALITY

W.Coast of Oahu

Makua to Kaena Pt.

1926

CHIEF OF PARTY

E.R.Hand

	HYD	OGR AT		THE REAL PROPERTY.		
The f	Plinished Had		STRED BY WOC.SYSTEM		ed by	the
following the sheet	title sheet is forward	HUELINES AS	DESCRIBED TIVE ORDER	IN SECTION	ible,	when

Remarks: # Chief Draftsman, office Department Engineer, Hawaiian Dept. USA

for tides see sheet 14.

4/5

1505-

159

Duplicate

DESCRIPTIVE

DECLASSIFIED BY NOAA
RURSUANT TO DOC SYSTEMATIC REVIEW
GUIDELINES AS DESCRIBED IN SECTION

to accompany hydrographie sheet No. 16, sta. "MILL" to Kasna Pt., W. dogst Vor Oahu, T. H. 2356.

7/21/26

The stretch embraced within the above limits presents a diversity of conditions and physical make-up. The entire shore is similar, however, in this registre that it is rock, excepting a little half nile stretch between sigs. "Big" has "Bus". For the SE half of sheet the bottom is regularits characteristic is sand and coral. But for the HW half the bottom is quite tregular, and mostly resky, especially at the inner ends of lines, while the coast is particularly ugly from a marine standpoint, being very jagged, with immunerable awash rocks fringening it, and a line of dangerous sunken rocks sutside of those.

As to landings, none counts that at Makus, on contiguous sheet to the SE. As proof of this the present searching party returned each might to that Makus landing, rather than attempt the possible hazards of these shown hereon. An interesting condition is noticed, in that with a heavy northerly swell the rollers explains a kind of left wheel and hit thic coast a terrific impact, making landing anywhere eat of the question: yet the breakers become more and more modified as they turn in further and further south with weakened force and epeed, till at the Makus landing

they are negotiable.

The landing on beach at sig. "Cut" is probably to be preferred for this sheet. The treacherous spot just northwest of here (same beach) should be noted: for off sig. "Bus" it is always breaking, so far as this party could observe. And the breakers were of such a dangerous nature that the sounding boat, backing in, as usual when doing the close to shore work, kept well away, as the soundings show. These breakers appear to be caused by a peculiar conformation of the shore which throws back an incoming breaker so that it meets the next incoming one just as it is about to ourl, thus intensifying the resultant break. West in value is the entrance off sig. "Lan". Care and caution would have to be used to get between the two awash rocks at entrance. The treakers should, as usual, be timed, and the beat slip in between the breaking interval. NW of this place there are no more landings possible, as a look at the ruggedness of inked sheet will attest: except that (exceptionally smooth sea, which is very rare at this point) landings might be made on the ledges indicated, between sig. "Pee" and the light. On the whole, a wise seaman will avoid attempting to land on the coast embraced by this sheet (especially the northern half) but will study instead the possibilities from the Makus landing southward.

The Cahu Railway still parallels this coast, rounding Kaena Pt. A horse trail is inside of it: its position may be followed out by eye from the sea, mean-

dering along the rocky slope, above the railroad tracks.

The Pokai Bay (Waianae) gauge controlled these soundings: they are re-

Original to Comdg.General (G2) Hawaiian Department, Honolulu, T.H.

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

Ecline R. Hand, Lt. USC&GS.

Duplicate

LIST OF STATISTICS

To accompany hydrographic sheet No. 16, Triangle Sta. Mill to Kaena Pt.

Eoline R.Hand, Chief of Party.

	•		•	ume		tions	. ings	, S		. Vessels
June	12								5.5	Whaleboat
	15									11
11	21	c		1	_	53	170		4.7	17
7.7	24	d.		1		74	• 279		4 • C	•
11 1	25	e		1		91	286		5.1	. 11
11	26	ß		1	•	79	279		4.5	• · · · · · · · · · · · · · · · · · · ·
	Total		•		•	415	-	-		.



Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in volumes of sounding records for

HYDROGRAPHIC SHEET 4779

Locality:

OAKU, T. H.

Chief of Party: E. R. Hand, 1928.
Plane of reference is M.L.W
2.2 ft. on tide staff at Walanae.

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.

Section of Field Records
Report on H4779
West Coast Bahn, Hawaiian Is.
Surveyed in 1926

chief of Party - Evline R. Hand Surveyed by - E. R. H. Protracted and wundings by - C.S. Merek Verified and Inked by - J. J. Jarman

1. The records conform to the requirements of the General Instructions.

2. The plan and character of developement fulfill the requirement of the General Instruction.

3. The sounding lines of this sheet are run normal to the shore and there are no crossings.

drawing the 14 and so fast come is partially completely. The 12 foot come is partially complete but below this depth there is very little impormation. Here to the rocky and treacherous condition of the coart, and to the heavy swells and breakers, the field party was smalle to get close inshore.

5. Something like 15 signals appeared to be off upon checking. These signals were checked by means of a tracing which was secured by subdurding first, the grids of the topographic sheet, and then a trueing of the gride of the smooth sheed. you protracting it was found that only signal "Do" was aff enough to make an appreciable difference in the location of the sounding line and this was the only signed changed. all of the signal on the smouth sheet appear to have the same relationship to each ather that they have on the topographic sheet. It may he that the projection of the smooth sheet became distorted by suregued strinkage caming the discrepancies. These discrepancies occur in the upperment grid at the Somewood grid at the S. E. corner of the sheet. The above mentioned grido are not complete an atte sheet and the fact coupled with the unequal shrinkage theory probably account for the disrepancies.

The Triangulation station, Kaena Pt. appeared to be eveneurly platted you hecking by means of the tracing but using the information secured by the army it was checked and found to be plotted in the correct position. Voung the same impormation and deducting for skrinkage, the platting of Kaina Pt. on the topographic sheet uns found to be about 3 meters en error which explains the above discrepancy. 6. The junction with #-4649 on the South is good. 7. The law water line and rocks awach from the toped sheet were shown in penul on the smooth street and they were wheel in by the affice draftemen. Rocho mow appearing on the smooth hear sheet in penal probably come from the best sheet and are not to be inked in until ALS further information is

secured from the field.

secured from the field.

seport respectfully submitted

say J. J. Jarman

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

AND REFER TO NO. 11-WSW

DEPARTMENT OF COMMERCE.
U. S. COAST AND GEODETIC SURVE

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

WASHINGTON

August 29, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4779 (Confidential)

West Coast of Oahu, Hawaiian Islands, Makua to Kaena Point

Surveyed in 1926

Instructions by U. S. Army.

Chief of Party, E. R. Hand.

Surveyed by E. R. Hand.

Protracted and soundings plotted by C. S. Merek.

Veri fied and inked by J. T. Jarman.

- The records conform to the requirements of the general instructions.
- 2. The specific instructions are not available and it is assumed that the work was carried out in accordance therewith.
- The extent of the development is generally sufficient considering the scale of the survey and the practical unimportance of the greater portion of the area of this sheet. For example in the upper half of the sheet there are a number of shoal spots that would have required more development were it not for the fact that the treacherous coast line makes inshore navigation or small boat landing, an extremely dangerous and hagardous business along here. In the lower half of the sheet, however, a few more lines should have been run over the area in the vicinity of Lat. 21° 33' 750 meters, Long. 158° 15' 600 meters, particularly on the west of the shoal. Also in the area inshore of the 30 foot in the vicinity of Lat. 21° 33', Long. 158° 15' additional work should have been done to develop the shoal indications (see the 26 foot soundings about 75 meters west of 'he above intersection and the 19 and 21 foot soundings about 200 meters east of the intersection.
- 4. The depth curves can be satisfactorily developed except those close inshore. On account of the numerous rocks that fringe this coast it is not exsential that the inshore depth curves be completely developed.
- 5. The usual field plotting was done by the field party and was satisfactory.

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

- 6. The junction with H. 4696 on the south is adequate.
 - a. A general comparison was made with the off-shore sheet H. 3292 (surveyed in 1911) and was found to agree very favorably with the new works.
- 7. No additional work will be required except as mentioned in paragraph three above.
- 8. Reviewed by A. L. Shalowitz, June, 1930.

Approved:

Chief, Section of Field Records (CHARTS)

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

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

11-W9W

August 29, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4779 (Confidential)
West Coast of Calm, Hawaiian Islands, Makma to Kaena Point
Surveyed in 1926

Instructions by U. S. Army.

Chief of Party, E. R. Hand.

Surveyed by E. T. Hand.

Protracted and soundings plotted by C. S. Merek.

Verified and inked by J. T. Jarman.

- The records conform to the requirements of the general instructions.
- The specific instructions are not available and it is assumed that the work was carried out in accordance therewith.
- The extent of the development is generally sufficient considering the scale of the survey and the practical unimportance of the greater portion of the area of this sheet. For example in the upper half of the sheet there are a number of shoal spots that would have required more development were it not for the fact that the treacherous coast line makes inshore navigation or small boat landing, an extremely dangerous and hazardous business along here. In the lower half of the sheet, however, a few more lines should have been run over the area in the vicinity of Lat. 21° 53° 750 meters, Long. 158" 15' 600 meters, particularly on the west of the shoal. Also in the area inshore of the 50 foot in the vicinity of Lat. 21° 53', Long. 158° 15' additional work should have been done to develop the shoel indications (see the 25 foot soundings about 75 meters west of he above intersection and the 19 and 21 foot soundings about 200 meters east of the intersection.
- 4. The depth curves can be satisfactorily developed except those close inshore. On account of the numerous rocks that fringe this coast it is not essential that the inshore depth curves be completely developed.
- 5. The usual field plotting was done by the field party and was satisfactory.

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

- 6. The junction with H. 4696 on the south is adequate.
 - a. A general comparison was made with the off-shore sheet H. 3292 (surveyed in 1911) and was found to agree very favorably with the new works.
- 7. No additional work will be required except as mentioned in paragraph three above.
- 8. Reviewed by A. L. Shalowits, June, 1930.

Approved:

Chief, Section of Field Records (CHARTS)

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

HYDROGRAPHIC SHEET No. 4779

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

Number of positions on shoet .4/3...

Number of positions checked ./2.9.

Number of positions revised .22.

Number of soundings recorded ./3.05.

Number of soundings revised

Number of signals erroneously

plotted or transferred