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DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY
R.S. Patton Director

State: Hawaiian Is.

DESCRIPTIVE REPORT 4753

Topographic

Sheet No. DD

LOCALITY

Northwest Coast of Cahu

Mokuleia to Kawaiapai

19_32

CHIEF OF PARTY

Hubert A. Paton

U. S. GOVERNMENT PRINTING OFFICE: 145

CLASSIFIED BY MOAA
T TO DOC SYSTEMATIC REVIEW
ES AS DESCRIBED IN SECTION
DECUTIVE ORDER 12368.

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DESCRIPTIVE REPORT

to accompany

SHEET DD

MORTHWEST COAST OF CAHU

MOKULEIA TO KAWAIAPAI

INSTRUCTIONS:

The survey of this sheet was made in cooperation with the U. S. Army, in accordance with instructions of the Director, U. S. Coast & Geodetic Survey, dated July 14, 1931. Additional verbal instructions were received from the Chief of Engineers, U. S. A., and his representatives. See Descriptive Reports for Sheets "L", "BB" and "CC."

7-4187 7-4740

METHODS:

Standard methods were employed as recommended by the U. S. Coast & Geodetic Survey in Special Publication No. 144.

CONTROL:

Basic control for the plane table survey was furnished by ten triangulation stations.

CLOSING ERRORS:

The traverse from Triangulation Station Dillingham to Triangulation Station Land had a closing error in distance of seven meters. This was adjusted proportionally throughout the traverse. For the remainder of the sheet, the control was sufficient to make long traverses unnecessary.

JUNCTIONS:

At the east end of the sheet a good junction was made with previous work as shown on Sheet #4445. On the west end of the sheet the traverse was plotted on Sheet "EE" and extended to Triangulation Station Y.M.C.A. which had zero closure. 7-4752

LAND MARKS:

Dense groves of iron wood trees form the most prominent land marks in this area. Outlines of these groves are indicated from Signal Cor eastward, south of Signals Red, Hid and Tri to the railroad, south of Signals In and Mac to the railroad. A single row of these trees lies between the highway and sugar cane fields in this vicinity. Another row of trees, which was trimmed

down considerably in 1932, line the north side of the railroad from near Signal Pot to Signal Hut. The railroad trestles are not as prominent off-shore as on the next sheet (EE").

BREAKERS:

The outer limits and general shape of shoal areas were indicated by a dash line. These are the areas where breakers may be expected in normal weather. In heavy northeasterly or northerly winds the breakers are continuous along this shore and extend much farther offshore.

LOCAL ATTRACTION:

Authorities here claim this area is subject to considerable local deflection of the compass needle. This was investigated to a certain extent by drawing in the direction of the declinatoire at four places on the sheet. At Triangulation Station Mokuleia U.S.E. there is apparently some local attraction.

Respectfully submitted,

Hubert A. Paton,

Lieutenant,

Chief of Party.

PLANE TABLE POSITIONS

SHEET D.D.

• •					
Object & Description	Lat.	D.M.	Long.	D.P.	Height
				•	
APE., N.E. cor. dark grey house	21°34†	1789	158°09°	1212	15*
Fen, west end board fence	21°34°	1807	158°09†	1316	61
Gab, N.E. gable Kaiahulu Club House	21°34!	1837	158°09°	1434	15'
Cor, N.W. cor. small house	21°34'	1723	158°10'	306	12'
Tat, center, Mokuleia R.R. Sta.	21°34'	1717	158°10'	1084	101
Hid, " dark green roof	21°35'	110	158°10°	1146	15"
Pra, " Buddhist Shrine	21°35'	1	158°10!	1663	10!
Army, Army Survey Mark (conc. mon.)	21°35'	249	158°11'	1079	
Soc, wind sock, emergency landing field	21°35'	77	158°11'	1157	251
Dol, water tank, Dollar Radio Sta. (Rec.)	21°34'	1521	158°11'	1255	35'
Hut, center, small shack	21°35*	167	158°11'	1673	10*
Wat, green water tank	21°34'	1651	158 ° 12'	585	10*
Ike, R.R. crossing sign	21°35'	102	158°12'	569	10'
	_	140	158°12'	971	201
	21°34'		158°12'	1052	15†
	21°35'		158°12'	579	
Had, end of prominent shoulder of cliff	21°34'	1378	158°12'	1502	500 1
Jac, boundary mon. Mil. Reservation	21°35'	152	158°12'	579	

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Honolulu, Fort Shafter, T. H.

		_ G			_	Fobr	y 181	<u> </u>	193
DIRECTOR, U. S. COAST AND GEO The following determined description given below, and sh	obie	cts ar	e promine	nt, ca	n be	readily di	stinguishe	ed from s	eaward from
		-				Hubort A	Poton		Chief of Part
		<u>-</u> -		POSI				<u> </u>	-
DESCRIPTION	LATITUDE			LONGITUDE			METHOD OF DETER- MINATION	CHARTS AFFECTED	
	۰	1	D. M. METERS	٥	ı	D. P. METERS	DATUM	MINATION	
Kaichulu Club House	21	54	1837	158	09	1434	1930 Stand.	Tomo.	4110
Station Water tank,Dollar Radio/	21	34	1521	158	11_	1255	t 1	FT	27
roon vator tark	21	54	1651	158	12	585	ę <u>1</u>	79	11
hito water tank	21	54	1686	158	12	1052	n	11	st .
and pit loading tower	21	55	140	158	12_	971	, 41	'n	11
houlder of cliff	21	54	1370	158	12	1502	77	12	17
			-, ,			٠.			
The following Lendre	rE :	ohod	ld bo rec	ove	l fr	n Chart	/aliu,	un 11 in	p-been
do s trojud.		• .						jed	
Steel .	21	54_	1100	158	ji.	20_	Re	noved	
							,	-	
							-		
		•	,			-			
					·	-			† · ·

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

D. S. SQUEENMENT PRINTING OFFICE: 1031

chart.

REVIEW OF TOPOGRAPHIC SURVEY No. 4753

Title (Par. 56) Kawaihapar to Mokulaia, N.W. coast & Cahw, Hawaiian Islands

Chief of Party H.a. Paton Surveyed by H.a. Paton Inked by H.a. Paton

Instructions dated July 14, 1931 Surveyed in Sept. 1932

- 1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.)
- 2. The character and scope of the survey satisfy the instructions.
- 3. The control and closures of traverses were adequate. (Par. 12, 29.)
- 4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)
- 5. The delineation of contours-formlines is satisfactory. (Par. 49, 50.)
- 6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) None submitted
- 7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
- 8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.)
- 9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)
- 10. The span, draw and elearance of bridges are shown. (Par. 16c.)
- 11. Locations and elevations of summits are given. (Par. 19, 51.)
- 12. The tree line was shown on mountains. (Par. 16g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

and cards were checked . per

- 13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.)
- 14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.
- 15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) Planetable stations are listed in Desc. Report.
- 16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.)
- 17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) Effect of local attraction is noted in Desc. Rep.
- 18. The geographic datum of the sheet is that Hawaii and the reference station is correctly noted. (Par. 34.)
- 19. Junctions with contemporary surveys are adequate.
- 20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.)
- 21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 79, 40, 41, 42, 45, 46, 47, 48, 49, 50.)
- 22. No additional surveying is recommended.
- 23. The Chief of Party inspected and approved the sheet and the descriptive report after review by

24. Remarks:

Reviewed in office by R.J. Christman, Dec. 20, 1933.

Examined and approved:

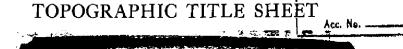
Chief, Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

Chief, Division of Hyd. and Top.

OCT 17 1933



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

Field No. ..DD.....

REGISTER NO. 4753

State	Hawaiian Islands					
General locality	Northwest Coast of	0ahu				
LocalityKawaihapai to Mokuleia i a i a a a a a a a a a a a a a a a						
Scale 1: 5000	Date of survey	September	, 19 <u>32</u>			
Vessel Inshore Hydrographic Survey of Oahu						
Chief of Party	Hubert A. Paton, Li	eut.				
Surveyed by	do					
Inked by	do					
Heights in feet ab	ove H. W. to gr	ound XXXX	X ebbai X io X			
Contour, Approxima	te contour, Form lin	ne interval	feet			
Instructions dated	lJvly-1	l4th	, 19 31			
Remarks: Surveyed in cooperation with the U.S. Army						

G P O

REG. NO. 4753