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FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

DESCRIPTIVE REPORT
Type of Survey Shoreline (Photogrammetric
Field No. Ph-6012 Office No. T-11990
LOCALITY
State Hawali
General locality Maui Island
Locality Puuiki
1960-63
CHIEF OF PARTY H.J.Seaborg, Honolulu District Off. W.E.Randall, Balto. District Off.
LIBRARY & ARCHIVES
DATE 1967

USCOMM-DC 37022-P66

USC OMM-DC 16276A-P61

FORM C&GS-181a (12-61) U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

	T ₋₁₁₉₉₀		
PROJECT NO. (II):			
рн 6012			
FIELD OFFICE (II):		CHIEF OF PARTY	
Honolulu, Hawaii		H.J. Seaborg	
PHOTOGRAMMETRIC OFFICE ((II):		OFFICER-IN-CHARGE	
Baltimore, Maryland		W.E. Randall	
INSTRUCTIONS DATED (II) (III):			
14 Novemb 28 Novemb 13 June 1 16 Januar	er 1960 961		
	,		
METHOD OF COMPILATION (III):			
Kelsh Plotter			
MANUSCRIPT SCALE (III):	STEREO	SCOPIC PLOTTING INSTRU	MENT SCALE (III):
1:5,000		* 000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATER	5,000 EPORTED TO NAUTICAL CI	HART BRANCH (IV):
APPLIED TO CHART NO.	DATE:	DA	TE REGISTERED (IV):
GEOGRAPHIC DATUM (III):		VERTICAL DATUM (III	1): MSL
Old Hawaiian		MEAN SEA LEVEL EX	
Old Hemetrien			refer to sounding datum
REFERENCE STATION (III):			
MAKAALAE, 1950			
LAT.: LONG.:		ADJUSTED	
20° 42° 42.548° 155° 59°	30.868#	UNADJUSTED	
PLANE COORDINATES (IV):		STATE	ZONE
= 137,943.79 ×= 730,605.	.51	Hawaii	2
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TOR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS REC			

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

IELD INSPECTION BY (II):		DATE:
John C. Lajoye		Feb. 1962
EAN HIGH WATER LOCATION (III) (STATE D	ATE AND METHOD OF LOCATION):	103. 1/02
Mean high water located by	y Kelsh Plotter from photogra ic and color photography of l	uph y of October 1960 962.
ROJECTION AND GRIDS RULED BY (IV):		DATE
S.R.		3-19-62
ROJECTION AND GRIDS CHECKED BY (IV):		DATE
S.R.		3-19-62
ONTROL PLOTTED BY (III):		DATE
L. A. Senasack		3-11-62
ONTROL CHECKED BY (III):		DATE .
L. O. Neterer		3-11-62
ADIAL PLOT OR STEREOSCOPIC CONTROL	EXTENSION BY (III):	DATE
Aerotriangulation - Washin	ngton Office	Feb. 1962
TEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY	DATE
	J. D. Mc Evoy	3-62
	CONTOURS	DATE
J. D. Mc Evoy	Inapplicable	
IANUSCRIPT DELINEATED BY (III):		DATE
J. D. Mc Evoy	<u> </u>	3_62 DATE
Children of till!		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III)	:	DATE
D. M. Brant		3_62
FIELD EDIT - 196	3	

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

MERA (KIND OR SOURCE) (III):

	P	HOTOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	\$1	AGE OF TI	DE
60 W 2379 62 W 2249 thru 2254 62 W(C) 2289 thru 2291	5 Oct. 1960 26 Jan. 1962 26 Jan. 1962	1023 0925 0950	1:25,000 1:15,000 1:10,000.	0.5 Ft 1.1 Ft 1.0 Ft		MLLW n
62 W(C) 2267 thru 2271	26 Jan. 1962	0942	1:10,000	1.0 F	i. II	ŋ
		TIDE (III)		***************************************	j	Diurna
				RATIO OF RANGES	MEAN RANGE	SPRIN. RANGI
REFERENCE STATION: Hono	lulu, Hawaii		<u> </u>		1.2	1.9
Hane	, Hawaii				1.8	2.5
SUBORDINATE STATION:			44			
FINAL VASH INGTON OFFICE REVIEW BY	((IV): Leo F. Bet	ignet, Norfol	k R egio nal Offic	BATE:	1965	_
PROOF EDIT BY (IV):	1.				. 1965	ĵ .
NUMBER OF TRIANGULATION ST	ATIONS SEARCHED FO	DR (II): 4	RECOVERED:	IDENTIFIE 3		
NUMBER OF BM(S) SEARCHED FO	OR (II):	0	RECOVERED:	IDENTIFIE 0		
UMBER OF RECOVERABLE PHO	TO STATIONS ESTABL	LISHED (III):	0			
NUMBER OF TEMPORARY PHOTO	HYDRO STATIONS ES	TABLISHED (III):	5			

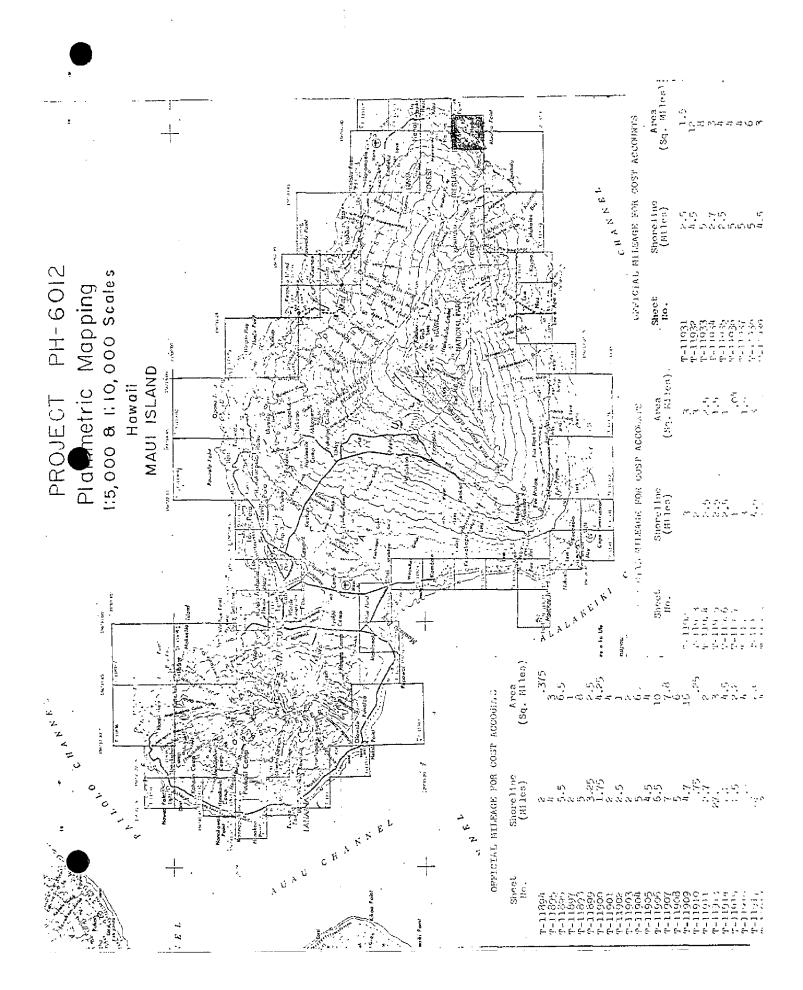
4

Alongshore area for hydro	June 1962	superseded
Final Compilation	March 1964	·
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		-
4		

COMPLETION DATE

REMARKS

COMPILATION RECORD



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-11990

Shoreline manuscript T-11990 is one of forty-nine similar maps in this project and covers a part of the coastline of Maui Island. This was a Kelsh project in advance of hydrographic surveys in the area. The field operations preceding compilation included recovery and identification of horizontal control and field inspection. The Kelsh compilation was at 1:5,000 from 1:25,000 scale photography obtained in October 1960. A cronaflex positive showing shoreline, alongshore detail and shoreline pass points was furnished for preparation of the hydrographer's boat sheet and the location of hydrographic signals. 1:5,000 scale ratio prints were furnished for hydro support and field edit purposes. The compilation manuscript is a vinylite sheet 1 minute 50 seconds in latitude by 2 minutes 50 seconds in longitude from which the smooth sheet was drafted and reproduced on cronaflex. One cronar positive and one cronar negative are provided for record and registry.

FIELD INSPECTION REPORT T-11990

Please refer to the Field Inspection Report for Maui Island, Hawaii bound with the Descriptive Report for T-11991.

FORM **164** (4-23-54)

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY CONTROL RECORD

PROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 57843 (BACK) FORWARD SCALE FACTOR 1.000 4 June 1962 (BACK) N.A. 1927 - DATUM DATE FORWARD DATUM SCALE OF MAP 1:5,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) CHECKED BY: FORWARD LONGITUDE OF Y COORDINATE LATITUDE OR X COORDINATE 4 June 1962 PH 6012 730,605.51 727,256,17 133,088.84 717,133.45 133,830.19 720,272.03 130,939.71 720,307.77 136,135.58 727,581,31 135,459.62 724,051.20 129,792.64 727,352.16 135,564.52 MAP T. 11990 PROJECT NO.... DATE.. Hawaiian SOURCE OF INFORMATION DATUM (INDEX) 01g 2 # **2**; = = E 컶 Zone 2 p. 16 p. 19 p. 20 1 FT. = 3048006 METER B. WILSON ģ MAKALIIHANAU, (HGS) (HTS, 1950) 1878 PUUIKI, CATHOLIC CHURCH SPIRE, 1950 MAKAALAE, 1950 PUUIKI (HGS), 1878 STATION MAKAHAHANA 2, MUOLEA, 1950 POHUE, 1950 KOA, 1950 1950

COMPILATION REPORT T-11990 ...

For additional data pertaining to this survey please refer to the Field Inspection Report for Maul Island bound with T-11991 and the Photogrammetric Plot Report bound with T-11907.

ITEMS 31 THRU 36

Refer to the Compilation Report for T-11896.

37. LANDMARKS AND AIDS

There are no fixed aids to navigation within the compilation limits. Landmarks have been reported on form 567.

38. CONTROL FOR FUTURE SURVEYS

No control for future surveys was established.

39. JUNCTIONS

Satisfactory junctions were made with T-11989 on the north and with T-11939 on the south. There is no contemporary survey on the west; the Pacific Ocean is on the east.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. Hana and Kipahulu quadrangles, scales 1:24,000, editions of 1957.

L7. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 4116, 1:250,000 scale, 12th edition, August 17, 1964.

ITEMS TO BE APPLIED TO CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

Donald M. Brant Carto. (Photo.)

Approved:

J. Hollis

J. Bull
Capt. C&GS
Norfolk Regional Officer

T-11990

48. Geographic Names List:

The Geographic names listed below were furnished by the Washington Office on U.S.G.S. Hana and Kipahulu, Hawaii $7\frac{1}{2}$ minute quadrangles, 1:24,000 scale, editions. of 1957.

Alaalaula Gulch Kaou Kakio Kapia Stream Keawa Bay Koali Kulepeamoa Point Laupapa Rock Makaalae Point Moku Pala Muolea Oahu Point Pacific Ocean Papaahawhawa Gulch Popokanaloa Harbor Puuiki Pukuilua Gulch

Waiohonu Stream

ALL MATTS ATTOYED BY GROGILARTO MY YOUS SECTION UNLESS GILLS 1 18 TYPE D. O. O. Wraight

Ph-6012 Maud Island, Hawaii T-11989 and T-11990

49. NOTES FOR THE HYDROGRAPHER

A set of ratio photographs (taken in 1962) has been prepared for use during photo-hydro support.

Color photography was used as an aid in interpreting offshore details and foul lines.

The positions of the following hydrographic signal sites, identified on field inspection photographs, have been established photogrammetrically for the following surveys:

Signal No.	Description	Photo. No.
	T-11989	
8901	Rag on palm	2377
8902	Rag on lauhala tree	2377
8903	Rag on small kamane tree	2377
8904	Rag on bush, W. side of path	2377
8905	Rag on iron wood tree	2377
8906	Rag on lone lauhala tree	2377
	T-11990	
9001	West gable, aluminum roof cottage	2378
9002	Flag, S. E. corner of rock pile	2378
9003	S. E. Corner GAY house	2378
9004	Center of round rock	2377
390h	West gable, small brown, green roof house	2380

1. PROJECTIO	N AND 2 TITLE		-	3.	MANUSCRIPT	4. MANUSCRIP
JJG	1. J.J. 13.			J	J/12 1	エチロ
		STATIONS OF THIRD-ORDER	6. RECOVERABLE			
_	OR HIGHER ACCURACY		A - O	+CCD4+C7 17	OFOGRAPHIC	5 / A + (UNS)
CONTROL	7. PHOTO HYDRO STATIO	NE R DENCH MARKS	9. PLOTTING OF	EXTANT	10. PHOTOGRA	MMETRIC
372710113	Photo a toko station	. Seren	FIXES	, EXTANT	PLOT REPO	
	None None		None		JAK	<i>)</i>
	11. DETAIL POINTS					
	12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOAL	S, ETC.	15. BRIDGES	
AL ONGSHORE	143	1713	118		*/*	
AREAS	0)19	00019	100,19	,	None	
(Nautical Chart	16. AIDS TO NAVIGATION	17. LANDMARKS		FEATUR	LONGSHORE F	HYSICAL
Datal	Nove	None		13.3	73	
	19. OTHER ALONGSHORE			/		
	IJB.					
	20. WATER FEATURES		21. NATURAL GRO	UND COVER		
	1 7 B		27/12	í		
PHYSICAL	22 PLANETABLE CONTOU	IRS	23. STEREOSCOPIO	INSTRUMEN	T CONTOURS	
FEATURES	1/-					
	Home		None	<u> </u>		
	24. CONTOURS IN GENERA	L	25. SPOT ELEVATI	ONS		
	Hone		None	_		
	26. OTHE OPHYLICAL FEA	TURES				
	J. 18					·
	27. POADS	28. RUIL DINGS		29. RAILRO	ADS	
CUL TURAL	1 778	J.F.B		NO	· <u>·</u>	
FEATURES	30. OTHER CULTURAL FE	ATURES	_ <u></u>	27 5	-	. •
	JJ 73					
BOUNDARIES	31. BOUNDARY LINES		32. PUBLIC LAND LINES			
BOOMDARIES	Hone		None			
	33. GEOGRAPHIC NAMES			34. JUNCTIC)NS	
MISCEL-	PLB			$\mathcal{A}_{\mathcal{A}}$	\mathcal{B}	
LANEOUS	35.LEGIBILITY OF THE MAN	26 D		37	TIVE HEPORT	
	DAN	JUSCAIPT 36. DISCREPANCY O	VEHLAT	D. The scene	PD	
	1 4519	<i>ð, 7</i> (4.		F	<i>(19)</i>	
	38 FIELD WERE TON PH	39. FORMS PB			······································	
	SIGNATURE OF REVIEWER		SIGNATURE OF SU	PERVISOR PI	รู้บูลี พี ร ีติกักราช	N OR UNIT
	Lea & B	Manox	Dogah	Steinb		witt
FIELD COA	PLETION ADDITIONS AND C	ORECTIONS TO THE MANUSC	RIP Additions and	corrections	shed by	e field com-
		ie manuscript. The manuscrip			≯ e remaiks of 	areserse side.
SIGNATURA	GUANT FOR	1011-	SIGNATURE OF THE	ntercy		

FIELD EDIT REPORT T-11990

There is no formal Field Edit Report.

Transmittel Letters to W.O. were Checked. No F.E. Sheet Was forwarded.

REVIEW REPORT T-11990 SHORELINE

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A visual comparison was made with Registered Planetable surveys No. 3274, 1:20,000 scale dated March 30, 1914 and No 3275, 1:20,000 scale dated June 4, 1914.

Shoreline manuscript T-11990 supersedes these two planetable surveys and should be used for all nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. Hana and Kipahulu quadrangles, 1:24,000 scale, editions of 1957.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets H-8719 PF-10-2-63 sheet CC and H-8826-PF-10-7-63 sheet 3. The differences between the manuscript and boat sheets are shown on the comparison print.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 4116, 1:250,000 scale, August 17, 1964.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meets the National Standards of Map Accuracy.

* Note: A "Notes to Verifier" page (Copy, page 17 of this report) was submitted to the Hydro Bronch, 8/4/66

Reviewed by:

Leet Bugnet

Approved by:

J. Bull, Director, Atlantic Marine Center

Approved by:

Chief, Cartographic Branch 549

Chief, Photogrammetry Division

Chief, Chart Division

Chief, Operations Division

USCOMM-DC 25412-P61

U.S. DEPARTMENT F COMMERCE

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SURVE	
GEODETIC S	
AND	
COAST AND	

MONFILOATING-AIDS-OR LANDMARKS FOR CHARTS

Norfolk, Virginia

STRIKE OUT TWO

TO BE CHARTED TO BE REVISED ID BE DELETED

19 65

11 Oct.

			Leo F.	Leo F. Beugnet			100	Joseph Stu	Steinberg	Jan	Chief of Party.
					POSITION			МЕТНОВ		THAI	
ВТАТЕ			5	LATITUDE.	LONG	LONGITUDE *		LOCATION	DATE	406E C 3EK CH 3E CH	CHARTS
CHARTING	DESCRIPTION	BIGNAL	•	D, M. METERS	•	" D.P. METERS	DATUM	BURVEY No.	LOCATION	ONSHI	
SPIRE	(Puniki, Catholic Church Spire,		20 42	19.100 587 1,	156 00	05.239 151 6	Old Hawaii	Old Triang. Hawaii T-11990	7-10-61	×	91.1η
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* TABULATE SECONDS AND METERS

NOTES TO VERIFIER H-8719 and H-8826 (Comparison with T-11990)

Boat sheet copies of hydrographic surveys H-8719 (PF-10-2-63, sheet cc) and H-8826 (PF-10-7-63, sheet 3) were compared with map T-11990 during final review of the shoreline survey. Differences in shoreline exist between the boat sheets and the shoreline map. These differences are indicated on the comparison print accompanying the shoreline map.

The shoreline map was field edited during hydrography. No field edit report was submitted; and, in addition, no discrepancy print was forwarded to the Washington office upon completion of final review in the Photogrammetric Office. It is assumed that as was the case for other project maps, no changes were indicated by the field editor for application to the shoreline map.

No mention is made in either the compilation or final review reports for the shoreline survey to the effect that the subject differences result from office initiated corrections applied subsequent to forwarding the "Incomplete Manuscript" for hydro support.

Existing differences in the surveys apparently result from errors in application of photogrammetric survey shoreline to the boat sheets.

MB

Washington Office, Review Unit

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
4115	11/8/66	TAW LMCR	Fall Part Before After Verification Review Inspection Signed Via
<u>-7115</u>	11/8/66	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Drawing No. To revesions to this scale at this
	<u> </u>	 	Time.
19320	4/5/97	1) 19/4	Full Part Before After Verification Review Inspection Signed Via
<u> </u>	1.3/7/-	Thur Thay was	Drawing No. Previous application adequate
	<u> </u>	,	170710 0 077110 0 101
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
	<u> </u>		
<u> </u>			Full Part Before After Verification Review Inspection Signed Via
<u></u>	<u> </u>	<u> </u>	Drawing No.
-	<u> </u>	<u> </u>	
 .	<u> </u>	<u> </u>	Full Part Before After Verification Review Inspection Signed Via
	<u> </u>	<u> </u>	Drawing No.
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	<u> </u>	<u> </u>	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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	<u> </u>	<u> </u>	Drawing No.
	<u> </u>		Drawing 100
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