# 11990

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Diag.	Cht.	No.	4116.
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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 <sub>-11990</sub>			
PROJECT NO. (II):				
рн 6012				
FIELD OFFICE (II):		CHIEF OF PARTY		
Honolulu, Hawaii		H.J. Seaborg		
PHOTOGRAMMETRIC OFFICE ((II):		OFFICER-IN-CHARGE		
Baltimore, Maryland	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		DATE REGISTERED (IV):		
GEOGRAPHIC DATUM (III):		VERTICAL DATUM (III	1): MSL	
Ald Havedian		MEAN SEA LEVEL EXCEPT AS FOLLOWS:  Elevations shown as (25) teler to mean high water		
Old Hawaiian			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	103. 1/02	
Mean high water located by	y Kelsh Plotter from photogra ic and color photography of l	uph <b>y of October 1960</b> 962.
ROJECTION AND GRIDS RULED BY (IV):		DATE
S.R.		3-19-62
ROJECTION AND GRIDS CHECKED BY (IV):	<del></del>	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 <del>INGTON OFFICE</del> REVIEW BY	((IV): Leo F. Bet	ignet, Norfol	k R <b>egio</b> nal Offic	BATE:	1965	_
PROOF EDIT BY (IV):					. 1965	ĵ .
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 14 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			

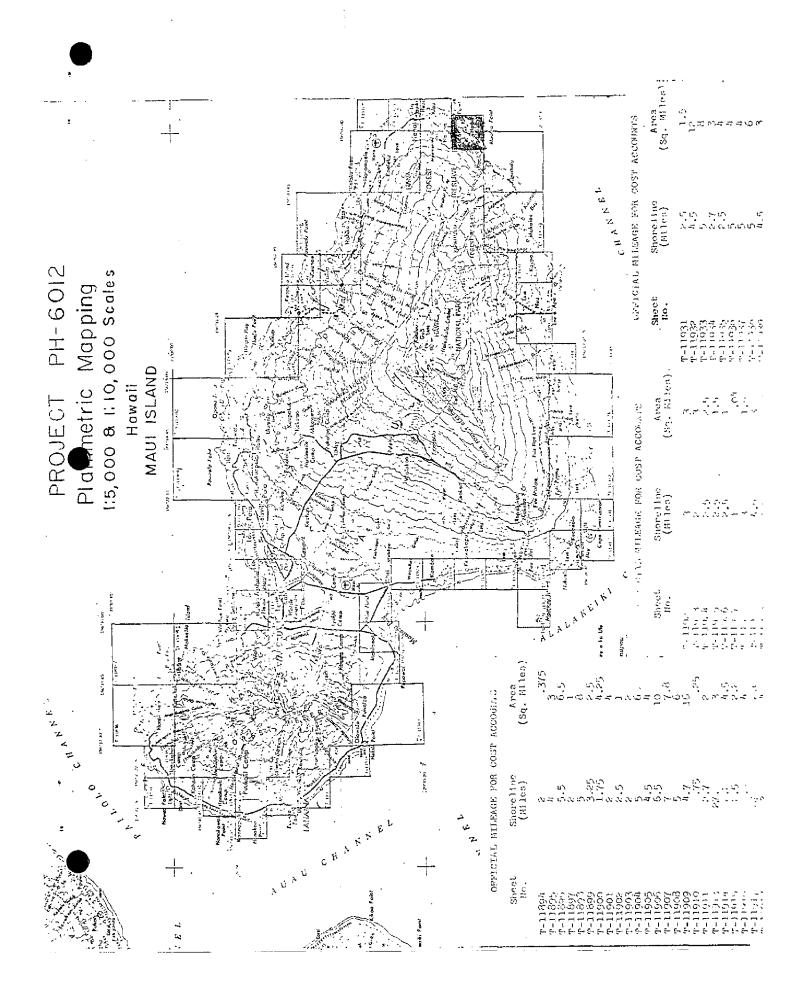
4

Alongshore area for hydro	June 1962	superseded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

PROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 57843 (BACK) SCALE FACTOR 1.000 FORWARD 4 June 1962 (BACK) N.A. 1927 - DATUM DATE FORWARD DATUM SCALE OF MAP 1:5,000 COAST AND GEODETIC SURVEY OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. CONTROL RECORD (BACK) CHECKED BY: FORWARD DESCRIPTIVE REPORT EPARTMENT OF COMMERCE OR COORDINATE une 1962 PH 6012 5.16 74 E 5.17 9.84 3.62 នុ 2.64 3.19 **5.**03 7.7 1.77 5.58 1.31

#### 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 tres	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	

FORM 182 (3-61)	50.	PHOTOGRAMMETRIC OFF		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
1. BROLECTION	N AND 2 TITLE	<b>,</b>		3. MANUSCRIPT 4. MANUSCRIPT MUMBERS  JEGUS  JEGUS	
CONTROL	5. HORIZONTAL CONTRO	L STATIONS OF THIRD-ORDER		HORIZONTAL STATIONS OF LESS THAN ACCURACY (TOPOGRAPHIC STATIONS)	
STATIONS	7. PHOTO HYDRO STATIC	ONS 8. BENCH MARKS	9. PLOTTING OF	SEXTANT 10. PHOTOGRAMMETRIC	
	11. DETAIL POINTS	None	None	. JAN.	
AL ONGSHORE	12. SHORELINE	13. ISW WATER LINE	14. ROCKS, SHOAL	Hone	
(Nautreal Chart Data)	None	None		18. OTHER ALONGSHORE PHYSICAL	
	19. OTHER ALONGSHORE	CULTURAL FEATURES			
	20. WATER FEATURES		21. NATURAL GRO	UND COVER	
PHYSICAL FEATURES	22 PLANETABLE CONTOURS		23. STEREOSCOPIC INSTRUMENT CONTOURS		
	24. CONTOURS IN GENERAL	ц.	25. SPOT ELEVATI		
!   	26. OTHER HYPICAL FEA	TURES			
CUL TURAL FEATURES	27. BOADS  LLB  30. OTHER CULTURAL FE	28. RUIL DINGS		29. RAILROADS	
<u></u>	IJB.	ATORES	T		
BOUNDARIES	31. BOUNDARY LINES HOME		32. PUBLIC LAND		
MISCEL-	33. GEOGRAPHIC NAMES  LEGINILITY OF THE MA	NUSCRIPT 36. DISCREPANCY O	VERLAY	34. JUNCTIONS  LAB  37. DESCRIPTIVE REPORT	
	38 FIELD WORST TON PI	J.H.J.	39. FORMS	FFB PB	
	SIGNATURE OF SAVIEND	eugned	Joseph	PERVISOR, REVIEW SECTION OR UNIT	
fletion sur	vey have been applied to t	he manuscript. The manuscrip	t somplete e	corrections to shed by the field com- scept as noted by remains on reverse side.	
Les FZ	evanet For	SD Mc EVOX	posph Sto	interco	

## 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.

# 14

#### 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

,	r value as landmar  film long  ainberg Chief	LOCATION OF CHARTS SURVEY No.  Triang.  T-11990 7-10-61 X 4,116		sitions of charted landmarks and non- new positions. The data should be ing should be given.

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>	<del> </del>	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.
<del>-</del>	<u> </u>	<u> </u>	
<del></del> .	<u> </u>	<del> </del> -,	Full Part Before After Verification Review Inspection Signed Via
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	<u> </u>	<u> </u>	Full Part Before After Verification Review Inspection Signed Via
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