11937

Diag. Cht. No. 4116.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetri

Field No. Ph-6012 Office No. T-11937

LOCALITY

State Hawaii

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

		T -11937			
PROJECT NO. (II): PH-6012					
(21034)					
FIELD OFFICE (II):			CHIEF OF PARTY		
Honolulu, Ha	waii		H. J. Seab	org	
PHOTOGRAMMETRIC OFFICE (III):			OFFICER-IN-CHAR		
Baltimore, M	aryland		W. E. Rand	all	
NSTRUCTIONS DATED (II) (III):					
14 November 28 November 13 June 1961 16 January 1	1960				
		,			
METHOD OF COMPILATION (III):	Kelsh Plotter				
ANUSCRIPT SCALE (III):		STEREOSC	COPIC PLOTTING INST	TRUMENT SCA	LE (III):
1:5,000		1	1:5,000		
DATE RECEIVED IN WASHINGTON OFF	ICE (IV):		PORTED TO NAUTICAL		
APPLIED TO CHART NO.		DATE:		DATE REGIS	(IV):
GEOGRAPHIC DATUM (III):			VERTICAL DATUM	,	MHW.
			Elevations shown a		
Old Hawaiian			Elevations shown at i.e., mean low water	s (5) refer to s	ounding datum
REFERENCE STATION (JIL):		~~~~~~	1		
<u> </u>	A ILIO (HGS), 188	85, 1950 	-,		·
20° 37° 17.943" 156° 08° 34.026"		6#	ADJUSTED		
PLANE COORDINATES (IV):			STATE		ZONE
= 105,002.98	×=679,146.18'				

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): DATE: J. C. Lajoye Jan. 1962 MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Kelsh plotter from annotations on 1960 photography and office interpretation of 1961 photography. PROJECTION AND GRIDS RULED BY (IV): DATE R.A.C. 12/7/60 PROJECTION AND GRIDS CHECKED BY (IV): DATE J.D.C. 12/7/60 CONTROL PLOTTED BY (III): DATE E. L. Williams 3/30/62 CONTROL CHECKED BY (III): DATE H.P. 3/30/62 RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): DATE STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY DATE E. L. Williams April 1962 CONTOURS DATE E. L. Williams Inapplicable MANUSCRIPT DELINEATED BY (III): DATE C. A. Lipscomb Jan. 1964 SCRIBING BY (III): DATE PHOTOGRAMMETRIC OFFICE REVIEW BY (III): DATE D. M. Brant Jan. 1964 REMARKS:

FIELD EDIT

1963

4.

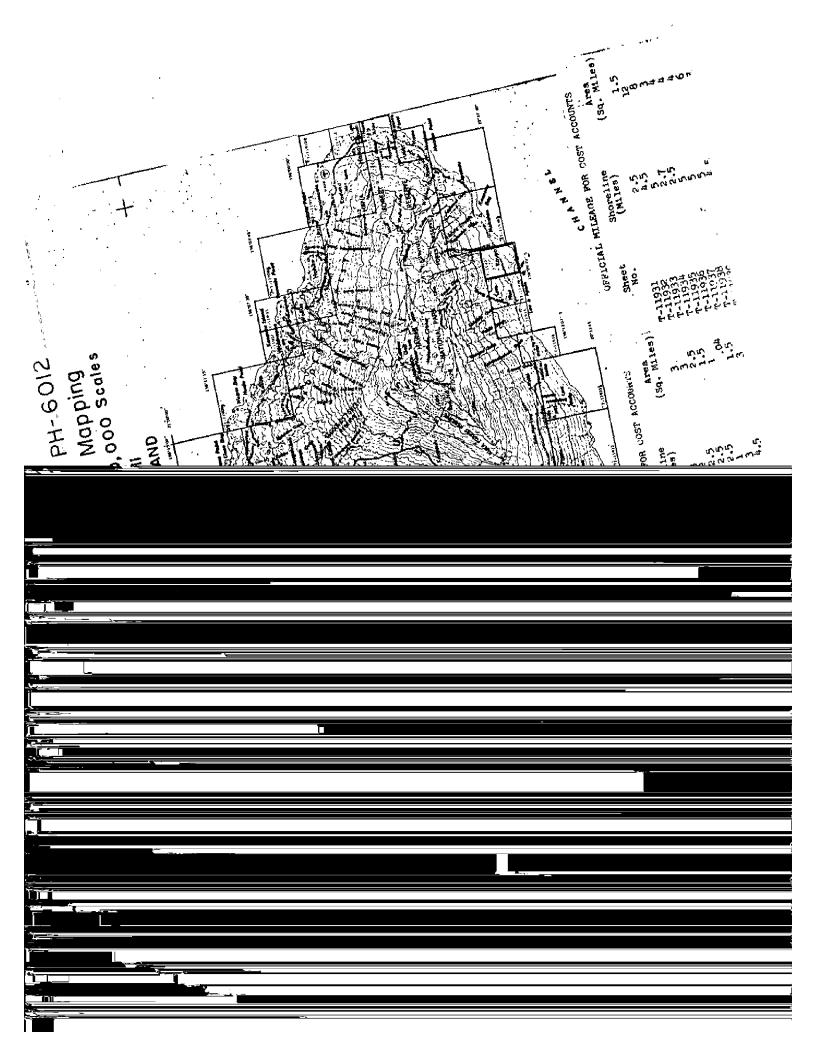
COMPILATION RECORD

COMPLETION DATE

REMARKS

Shoreline furnished for hydro	April, 1962	superseded
Final Compilation Completed	Jan. 1964	
	-	

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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-11937

Shoreline manuscript T-11937 covers a part of the coastline of Maui Island, Hawaii. This is one of forty-nine similar maps compiled by Kelsh methods primarily to obtain new shoreline for nautical chart purposes and to provide photo-hydro support data for hydrographic surveys to be made in the area.

Field operations preceding compilation included the recovery and identification of horizontal control and field inspection. No photohydro signal sites were selected.

Kelsh compilation was at 1:5,000 scale from 1:25,000 and 1:15,000 scale panchromatic photography obtained 8 October 1960 and 25 September

FIELD INSPECTION REPORT Map Manuscript T-11937

Please refer to the Field Inspection report bound with the Descriptive Report for T-11894.

FORM 164 (4-23-54)

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

PROJECT NO. PH 6012

MAP T-__11937

AST AND GEODETIC SURVEY ATROL RECORD

SCALE FACTOR

COMM- DC- 57843 DISTANCE FACTOR DISTANCE FROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS (BACK) FORWARD 7/11/62 (BACK) N.A. 1927 - DATUM FORWARD DATUM SCALE OF MAP 1:5,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) FORWARD LONGITUDE OR x-COORDINATE LATITUDE OR V-COORDINATE 17.943 34.026 13.477 30.159 .08 38 0 G. 9311 Old P. 43 Hawaiiam 156 156 ଯ G. 9311 Old P. 56 Hawaiian DATUM TT = 3048006 WETER COMPUTED BY. E. L. Williams SOURCE OF INFORMATION (INDEX) KA LAE O KA ILIO (HGS), 1885, KAUPO, CATHOLIC CHURCH, SPIRE, 1950 STATION

DATE.

R. Rudolph

Listing CHECKED BY...

8-30-62

DATE.

PHOTOGRAMMETRIC PLOT REPORT ISLAND OF MAUI (EAST HALF) HAWAII

Project PH-6212 February 1962

21. AREA COVERED

T-11905 through T-11911; T-11929 through T-11939; T-11989 through T-11992

22. METHOD

Six stereoplanigraph bridges, designated as strips #8 through #13, were run in order to provide pass points for use in Kelsh compilation of the project. Additional points along the shoreline were provided, for possible use in conjunction with hydrographic surveys in the area.

This project covers the entire eastern half of the island of Maui, and adjoins a similar project of March 1961, which covers the western half of the island. On that earlier phase, the numbers assigned to the stereoplanigraph bridges were #1 through #7.

Strip #13 was adjusted on a linear basis. All other strips in this project (eastern half of the island) were adjusted by a least-squares solution on the IBM 650 computer. Numerous ties between strips were used as checks on adjustments. A pass point from strip #9 was used in the adjustment of strip #11. Where strip #11 duplicates the coverage of strip #9, the former should be used in compilation.

Satisfactory ties with the project of March 1961, were made on both the north and the south coasts. Also, satisfactory adjustments were obtained for all strips in this part of the Maui Island project.

23. ADEQUACY OF CONTROL

The horizontal control provided complied with project instructions, and was adequate. The following control failed to hold in bridging: Δ PUHILELE, 1950-SUB. A; Δ MAKAALAE, 1950-SUB. B; Δ PUUHINAI 2, 1950-SUB PTS. 1, 2, and 3. They are to be disregarded in compilation. The problem with

PUHILELE-SUB A is entirely one of interpretation. In strip #8, two different possible positions for the point were read, one of which held in bridging, and the other failed to hold. In strip #9, the single position read for the point failed to hold. The number and geographical location of other control in this area is such that this station may be disregarded.

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ITEMS 31 THRU 36

Please refer to the Compilation Report bound with the Descriptive Report for map manuscript T-11934.

37. LANDMARKS AND AIDS

There are mo landmarks or non-floating aids to navigation within the limits of this map.

38.. CONTROL FOR FUTURE SURVEYS

No supplemental control was established for control of future surveys.

39. JUNCTIONS

Satisfactory junctions were made with T-11936 on the west and T-11938 on the east. Alenuihaha Channel is on the south, there is no contemporary survey on the north.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report bound with the Report for T-11894.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. Kaupo, Hawaii quadrangle, 1:24,000 scale, edition of 1957/

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Nautical Chart 1116, scale 1:250,000, 11th edition published April 16, 1941 and revised January 9, 1961.

ITEMS TO BE APPLIED TO CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

For:Donald M. Brant Carto. (Photo.)

Approved:

≯J. Bull Capt. C&GS

Norfolk Regional Officer

T-11937

48. Geographic Names List:

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

Alenuihaha Channel
Kailio Point
Kalama Bay
Kamanawa Bay
Kamanawa Point
Kaupo
Makaakini Point
Mamalu Bay
Pacific Ocean
Pukaauhuhu
Waiuha Bay

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a. J. Uraight

49. NOTES TO THE HYDROGRAPHER

No photo-hydro signal sites were selected by the field inspection party.

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FORM 182 (3-61)		P	ното	GRAMMETRIC OFF	ICE REVIEW		DEPARTMENT	
	_50			T• 1193	7			
1. PROJECTION		2. TITLE DMB					3. manuscript numbers DMB	4. MANUSCRIPT SIZE DMB
CONTROL	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY DMB				6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) NONE			
STATIONS	7. PHOT	O HYDRO STATIONS	8. BE	NCH MARKS	9. PLOTTING OF SEXTANT 10. PHOTOGRAMMETRIC PLOT REPORT			AMMETRIC
	DMB	,		NONE	NONE		DMB	
	11. DETA	IL POINTS	<u>!</u>	- <u></u>	<u> </u>			
	DMB							
	12, SHOP	ELINE	13. LO	W-WATER LINE	14. ROCKS, SHOAL	LS, ETC.	15. BRIDGES	
ALONGSHORE AREAS	DMB		NC	NE	DMB		NONE	!
(Nautical Chart	16. AIDS	TO NAVIGATION		17. LANDMARKS		18. OTHE	R ALONGSHORE URES	PHYSICAL
Doto)	NONE			NONE		DME	3	
	19. OTH	ER ALONGSHORE CU	LTURA	L FEATURES				_
	DMB							,
	20. WATE	ER FEATURES			21. NATURAL GRO	OUND COVE	R	
PHYSICAL	DMB				DMB			
FEATURES	22 PLAN	IETABLE CONTOUR	S		23. STEREOSCOPIC INSTRUMENT CONTOURS			
	NONE				NONE			
\$	24. CONTOURS IN GENERAL				25. SPOT ELEVATIONS			
	NONE				NONE	<u>-</u>		
' 	26. OTHER PHYSICAL FEATURES							
	DMB			I co				
CULTURAL	27. ROADS 28. BUILDINGS				29. RAILROADS NONE			
FEATURES	DMB DMB]N		
		R CULTURAL FEAT	TURES					
————————————————————————————————————	DMB			·	32. PUBLIC LAND		<u> </u>	
BOUNDARIES	NONE			NONE	LINES .	·		
		RAPHIC NAMES			WONE	34. JUNC	TIONS	
MISCEL-	DMB			©	DMB			
LANEOUS 변		ILITY OF THE MANU	SCŘIPT	36. DISCREPANCY OF			ESCRIPTIVE REPORT	
-	35.LEGIBILITY OF THE MANUSCRIPT 36. DISCREPANCY ON DMB			DMB				
•	38. FIEL	D INSPECTION PHO	rograf	<u> </u>	39. FORMS			
,	DMB	RE OF REVIEWER		0 F A	DMB	PERVISOR	REVIEW SECTION	TINU BO NO
	. D. M	. Brant			Joseph	Stein	long	
pletion sur	PLETION vey have	ADDITIONS AND CO	RECT	ons to the Manusc crips. The manuscrip	RIPT-Additions and	d correction	ns turnished by	the field com- on reverse side.
SIGNATURE OF	COMPILE	R			SIGNATURE OF SU		l-10	
			ISE RE	VERSE SIDE FOR REM		Stein		M-DC 28383-P81
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Field Edit Report T-11937

No formal field edit report was received. Please refer to the attached letter which is the following page of this report.

1024 TO-121 1

UNITED STATES GOVERNMENT

Memorandum

U.S. DEPARTMENT OF COMMISSION COAST AND GEODETIC SURVEY

DATE: 8 July 1963

TO

: The Director

Coast and Coodotic Survey U.S.Department of Commorco Washington 25, D.C.

FROM : Commading Officer USCAGES Pathfindor

> 705 Federal Office Dailding Combile, Machington 🦻

SUDJECT: Field Edit Report - 6FR-419

During the first balf of the 1969 field scapen, Pathfinder personnal field chibed the namesoripte histod below for accuracy cal completeness. All ree emended changes have been neved on the bladding improcatons in rod and groom int. In gozoral, the manucornigio toto found to be very reliable with call minor descrepencies ಸಿಂಕಿಂತ ಕ್ಷಮಾರಿಂತ.

Four manuscripts with noted changes are being forwarded to the Unclidenter Office on July 9. These manuscripts with no recommended changes have been noted below. The remaining manuscripts will be forwarded as seen as to have had an apperbandly to compare than with the boot ಮುಂದು ಇಲ್ಲಾ ಈ ಸಿಂದುಗಿಲ್ಲರು ಕೆಲ್ ಮುರುಕ್ರಬಾಗು/ತಿನ್ನಾ

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7-11905	Lilitoù - Mill ha verandoù later
2-11907	Initial - Will be formered later
2-22500	Line - Mill bo forwarded later
T-11909	Lilital - Mill be forwarded later
	Elited - Will to forwarded later
Name of the last o	Elited - Wall to forwarded later
2-11/50	Permanded 9 Jaly
9-00091	Edition - In recommended changes
S-12:52	Pâlitul - No rocumentos chingos
2-11000	Clivil - It recommended charges
3-2003 5	Memerica 9 Jaly
2-22993	Nemerical 9 Jaly
(23.957)	Turnardoù 9 Jaly
2-21.592	Thistol - Will be formerical later
T-119/2	Pinica - Will to ferroused later

In is requested that these remeerints to returned to the Ship as soon as is prestical as they will be aboded for smooth plotting.

REVIEW REPORT SHORELINE March 25, 1966

61. GENERAL STATEMENT

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See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with Registered Planetable Survey No. 3275, 1:20,000 scale made in 1912 and approved June 4, 1914.

Because of the larger scale of this manuscript the MHWL and alongshore features are shown in greater detail. Rocks and foul areas which do not appear on the planetable survey have been noted on the comparison print. Map Manuscript T-11937 supersedes the old planetable survey and should be used for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. quadrangle Kaupo, Hawaii, 1:24,000 scale, edition of 1957. The shoreline and alongshore details on the U.S.G.S. quadrangle have been generalized. The shoreline on Map Manuscript T-11937 is more depictive of the coastline.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet H-8825 (PF-10-6-63). The MHWL on the boat sheet was evidently taken from a reduction of the manuscript, however, the foul lines shown on the boat sheet and manuscript are not in agreement. These differences have been noted on the comparison print.

Some data for reducing rock heights to sounding datum was provided on the boat sheet by the hydrographer. Data was not provided for all of the rocks shown on the map manuscript.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 4116, 1:250,000 scale. This is the only chart that covers the area and is at too small a scale to show all of the rocks and other alongshore detail.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Future surveys in the area should provide the necessary data for the reduction of rock heights to sounding datum.

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet

Approved by:

J. Bull, CAPT., USESSA
Director, Atlantic Marine Center

Approved by:

Chief, Gartographic Branch AU.D.

Chief, Photogrammetry Division

Chief, Chart Division

Chief, Operations Division

FORM C&G5-835Z (3-25-63)

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
			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.
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