

11969

Diag. Cht. No. 4116.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC)

Field No. 21045 Office No. T-11969

LOCALITY

State HAWAII

General locality LANAI ISLAND

Locality IAMO POINT

1960 - 1962

CHIEF OF PARTY

WILBUR R. PORTER, CHIEF OF PARTY
FRED NATELLA, PHOTOGRAMMETRIC UNIT

LIBRARY & ARCHIVES

DATE JAN 11 1965

USCOMM-DC 5087

11969

DESCRIPTIVE REPORT - DATA RECORD

T - 11969

PROJECT NO. (II):		
21045		
FIELD OFFICE (II):	CHIEF OF PARTY	
HONOLULU, HAWAII	WILBUR R. PORTER	
	UNIT CHIEF	L. F. VAN SCOY
PHOTOGRAMMETRIC OFFICE (III):	OFFICER-IN-CHARGE	
PORTLAND, OREGON	FRED NATELLA	
INSTRUCTIONS DATED (II) (III): JULY 31, 1962 II DEC. 18, 1962 III AMENDMENT I: MAY 23, 1963; III AMENDMENT II: JUNE 24, 1963 III AMENDMENT III: JULY 9, 1963 III AMENDMENT IV: SEPT. 30, 1963 III		
METHOD OF COMPILATION (III):		
KELSH INSTRUMENT		
MANUSCRIPT SCALE (III):	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:5000	
1:10,000	PANTOGRAPH SCALE: 1:10,000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):	
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III):		VERTICAL DATUM (III):
OLD HAWAIIAN		MEAN SEA LEVEL EXCEPT AS FOLLOWS: X <i>Elevations shown as (25) refer to mean high water</i> <i>Elevations shown as (5) refer to sounding datum</i> <i>i.e., mean low water or mean lower low water</i>
REFERENCE STATION (III):		
HAUA, 1962		
LAT.:	LONG.:	<input type="checkbox"/> ADJUSTED <input checked="" type="checkbox"/> UNADJUSTED
20° 51' 24.96"	156° 50' 28.64"	
PLANE COORDINATES (IV):		STATE
Y = 190,202.14 X = 440,379.11		ZONE
		HAWAII
		2
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.		

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (III): L. F. VAN SCOY		DATE: OCT.-DEC. 1962
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): OCTOBER-DECEMBER 1962 BY FIELD INSPECTION. COMPILATION BY KELBN INSTRUMENT.		
PROJECTION AND GRIDS RULED BY (IV): A.R.		DATE 6-25-63
PROJECTION AND GRIDS CHECKED BY (IV): R.G.		DATE 6-26-63
CONTROL PLOTTED BY (III): D. N. WILLIAMS		DATE 8-6-63
CONTROL CHECKED BY (III): L. L. GRAVES		DATE 8-6-63
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): HENRY P. EICHERT		DATE AUGUST 1963
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY R. H. MEYER	DATE 8-23-63
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): SMOOTH DRAFT: J. L. HARRIS		DATE 9-10-63
SCRIBING BY (III): STICK-UP: C. C. HARRIS		DATE 10-16-63
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): ROUGH DRAFT: J. L. HARRIS ADVANCE: J. E. DEAL		DATE 8-30-63 10-17-63
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C&GS SINGLE LENS "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 3201 THRU 3203 COLOR PHOTOGRAPHS	10-21-60 RATIO PRINTS OF ABOVE	10:08 1:10,000	1:25,000	0.4' ABOVE M.L.L.W.
60 W 3246 THRU 3251	10-22-60	08:40	1:10,000	1.3' " "
				COMPUTED FROM PRE- DICTED TIDE TABLES.

TIDE (III)

		RATIO OF RANGES	MEAN RANGE	DIURNAL RANGE
REFERENCE STATION:	HONOLULU		1.2	1.9
SUBORDINATE STATION:	KAMALO HARBOR, MOLOKAI		1.4	2.1
SUBORDINATE STATION:				
WASHINGTON OFFICE REVIEW BY (IV):		DATE:		
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	1	RECOVERED:	1	IDENTIFIED: 1
NUMBER OF BM(S) SEARCHED FOR (II):	NONE	RECOVERED:		IDENTIFIED
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):		NONE		
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):		11		

REMARKS:

FIELD INSPECTION REPORT

MAP MANUSCRIPT T-11969

PROJECT 21045

REFER TO THE FIELD INSPECTION REPORT FOR THE ENTIRE PROJECT
INCLUDED WITH THE DESCRIPTIVE REPORT FOR T-11972.

PHOTOGRAMMETRIC PLOT REPORT

MAP MANUSCRIPT T-11969

PROJECT 21045

REFER TO THE PHOTOGRAMMETRIC PLOT REPORT BY HENRY P. EICHERT,
AUGUST 1963, AND INCLUDED WITH THE DESCRIPTIVE REPORT FOR T-11972.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T-11969

PROJECT NO. 21045

SCALE OF MAP 1:10,000

SCALE FACTOR

[illegible]

1 FT. = .3048006 METER

COMPUTED BY: L.L.G.

DATE 7-19-63

CHECKED BY:

DATE 8-2-63

COMM-DC-57843

COMPILATION REPORT
MAP MANUSCRIPT T-11969
PROJECT 21045

ITEMS 31 THRU 37:

REFER TO THE COMPILATION REPORT FOR T-11972.

38. CONTROLS FOR FUTURE SURVEYS:

ELEVEN PHOTO-HYDRO STATIONS WERE IDENTIFIED BY THE FIELD PARTY AND LOCATED DURING KELSH INSTRUMENT COMPILATION. THEIR NUMBERS AND DESCRIPTIONS ARE LISTED IN PARAGRAPH 49, NOTES FOR THE HYDROGRAPHER.

39. JUNCTIONS:

SATISFACTORY JUNCTIONS WERE MADE WITH T-11⁹68 TO THE WEST AND WITH T-11970 TO THE SOUTH. AUAU CHANNEL IS ON THE NORTH AND EAST

40. HORIZONTAL AND VERTICAL ACCURACY:

REFER TO THE COMPILATION REPORT FOR T-11972.

46.. COMPARISON WITH EXISTING MAPS:

REFER TO THE COMPILATION REPORT FOR T-11972.

47. COMPARISON WITH NAUTICAL CHARTS:

COMPARISON WAS MADE WITH NAUTICAL CHART 4130, SCALE 1:80,000 AT LAT. 20° 51', 3RD EDITION, DEC. 30, 1936, REVISED 4-23-62.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

NONE.

ITEMS TO BE CARRIED FORWARD:

NONE.

APPROVED:

FRED NATELLA, CAPT, C&GS
PORTLAND DISTRICT OFFICER

RESPECTFULLY SUBMITTED:

JAMES L. HARRIS
CARTOGRAPHER

49. NOTES FOR THE HYDROGRAPHER:

ELEVEN PHOTO-HYDRO STATIONS ARE SHOWN ON THIS MANUSCRIPT AND LISTED BELOW. THEY WERE IDENTIFIED BY THE FIELD PARTY AND LOCATED BY THE KELSH OPERATOR DURING COMPILATION.

No.	DESCRIPTION	FIELD PHOTO No.
6901	N. END SMALL CLUMP BRUSH	60 W 3204
6902	N. EDGE CLUMP BRUSH	60 W 3203
6903	END LARGE CLUMP BRUSH	"
6904	END LARGE CLUMP BRUSH	"
6905	MIDDLE EDGE CLUMP BRUSH	60 W 3202
6906	SMALL CLUMP BRUSH	"
6907	CORNER LARGE CLUMP BRUSH	60 W 3201
6908	POINT LARGE CLUMP BRUSH	"
6909	POINT LARGE CLUMP BRUSH	"
6910	SMALL BUSH AT EDGE OF TALL BRUSH	"
6911	EDGE BRUSH	"

NONE OF THE LIMIT LINES SHOWN ARE INTENDED TO REPRESENT APPROXIMATE LOWER LOW-WATER LINES, BUT ARE SHOWN TO ASSIST THE HYDROGRAPHER WHEN NAVIGATING CLOSE TO THE SHORE.

WHEN USING SHORELINE PASS POINTS ON A SINGLE PHOTOGRAPH TO LOCATE ADDITIONAL PHOTO-HYDRO SIGNALS, THE PHOTOGRAPHS SHOULD BE EXAMINED BY USE OF THE STEREOSCOPE SO THAT IT MAY BE DETERMINED WHICH POINTS OF THE SAME ELEVATION AS THAT OF A POINT TO BE LOCATED MAY BE USED.

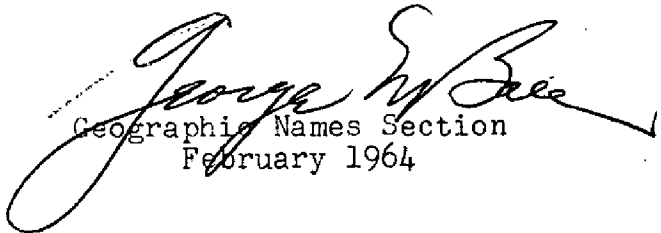
PHOTOGRAMMETRIC OFFICE REVIEW

T-10960 11969

1. PROJECTION AND GRIDS ✓	2. TITLE ✓	3. MANUSCRIPT NUMBERS ✓	4. MANUSCRIPT SIZE ✓
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY ✓	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) None		7. PHOTO HYDRO STATIONS ✓
8. BENCH MARKS None	9. PLOTTING OF SEXTANT FIXES None	10. PHOTOGRAMMETRIC PLOT REPORT ✓	11. DETAIL POINTS None
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE ✓	13. LOW-WATER LINE None	14. ROCKS, SHOALS, ETC. ✓	15. BRIDGES None
16. AIDS TO NAVIGATION None	17. LANDMARKS None	18. OTHER ALONGSHORE PHYSICAL FEATURES ✓	19. OTHER ALONGSHORE CULTURAL FEATURES ✓
PHYSICAL FEATURES			
20. WATER FEATURES ✓		21. NATURAL GROUND COVER ✓	22. PLANETABLE CONTOURS None
23. STEREOSCOPIC INSTRUMENT CONTOURS None	24. CONTOURS IN GENERAL None	25. SPOT ELEVATIONS None	26. OTHER PHYSICAL FEATURES ✓
CULTURAL FEATURES			
27. ROADS ✓	28. BUILDINGS ✓	29. RAILROADS None	30. OTHER CULTURAL FEATURES ✓
BOUNDARIES			
31. BOUNDARY LINES None		32. PUBLIC LAND LINES None	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES ✓		34. JUNCTIONS ✓	35. LEGIBILITY OF THE MANUSCRIPT ✓
36. DISCREPANCY OVERLAY None	37. DESCRIPTIVE REPORT ✓	38. FIELD INSPECTION PHOTOGRAPHS ✓	39. FORMS ✓
40. REVIEWER James L. Harris		SUPERVISOR, REVIEW SECTION OR UNIT	
41. REMARKS (See attached sheet)			
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.			
COMPILER		SUPERVISOR	
43. REMARKS			

48. Geographic Names List

Auau Channel
Haua Gulch
Haua Point
Hauola Gulch
Hauola Point
Iamo Point
Kaa Fishpond
Kaa Gulch
Kalakala
Keomuku
Lanai Island
Nahoko Gulch
Nahoko Point
Waiopae Fishpond


Geographic Names Section
February 1964

Review Report

Shoreline Maps

T-11966 through T-11976

July 1964

61. General Statement

These shoreline maps of Project PH-6202 Lanai, Hawaii were prepared to furnish hydro support-data and base maps for our nautical and aeronautical charting programs.

62. Comparison with Registered Topographic Surveys

T-3435	1:20,000	1914
T-4304	1: 5,000	1927
T-4304a	1: 2,500	1928
T-4745	1:20,000	1932
T-4780	1: 5,000	1931

Differences exist between these surveys - generally in the main shoreline and the shapes of some of the islands. The subject surveys are to supersede the above listed maps of common areas for nautical charting purposes.

63. Comparison with Maps of Other Agencies

Island of Lanai	1:62,500	1923
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Because of the scale difference only a visual comparison can be made. The subject surveys are more complete and supersede the above survey for common area.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

4120	1:80,000	Edition 1942	Revised Feb.1963
4130	1:80,000	Edition 1936	Revised Apr.1962
4122	1: 2,500	Edition 1929	Revised Apr.1951

Differences exist. However, there are no items to be applied immediately.

66. Adequacy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the required accuracy for Nautical Charting.

Reviewed by:

L. C. Lande
L. C. Lande

Approved by:

Charles H. Hemen
Chief, Photogrammetric Branch

Chief, Nautical Chart Division

J. E. Waugh 1/7/65
Chief, Photogrammetry Division

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

T-11969

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.

[illegible]

Field Edit Report
To Accompany T 11969

USC&GSS McARTHUR

Ronald L. Newsom
CDR, USESSA
Commanding Officer

51 METHODS

Manuscript T 11969 was field edited by personnel aboard the USC&GSS McARTHUR in conjunction with hydrography on boatsheet AR 10-4-68 (H 8998). Acquisition of field edit material was accomplished from Launch AR-1 and Skiff #2. Extensive areas of coral heads and reefs along with considerable surf made delineation of the MLLW line impossible. There were no deletions, additions or corrections on this field ozalid of T 11969.

52 ADEQUACY OF COMPILATION

Manuscript T 11969 is complete and adequate for use in conjunction with this hydrographic survey. The area of this manuscript from the shoreline seaward was field edited.

54 RECOMMENDATIONS

None

*Received in Wash. office in March 1971 —
forwarded by Norfolk office.
JHB*