

11971

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Diag. Cht. No. 4116.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC)

Field No. Ph-21045 Office No. T-11971

LOCALITY

State HAWAII

General locality LANAI ISLAND

Locality KAMAIKI POINT

1960-1962

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE September 1964

USCOMM-DC 5087

11971

DESCRIPTIVE REPORT - DATA RECORD

T - 11971

PROJECT NO. (II): 21045		
FIELD OFFICE (II): HONOLULU, HAWAII		CHIEF OF PARTY WILBUR R. PORTER UNIT CHIEF L. F. VAN SCOY
PHOTOGRAMMETRIC OFFICE (III): PORTLAND, OREGON		OFFICER-IN-CHARGE FRED NATELLA
INSTRUCTIONS DATED (III) (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): 1:10,000		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:5000 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): OLD HAWAIIAN		VERTICAL DATUM (III): 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): PUU MANU, 1879		
LAT.: 20 ° 46' 47.21"	LONG.: 156° 52' 20.98"	<input type="checkbox"/> ADJUSTED <input checked="" type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): Y = 162,192.23 X = 429,688.85		STATE HAWAII ZONE 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 KELSH 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): L. L. GRAVES		DATE 9-11-63
CONTROL CHECKED BY (III): R. H. MEYER		DATE 9-11-63
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): HENRY P. EICHERT		DATE August 1963
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY L. L. GRAVES	DATE 9-24-63
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): SMOOTH DRAFT: J. L. HARRIS		DATE 10-7-63
SCRIBING BY (III): STICK-UP: C. C. HARRIS		DATE 10-23-63
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): ROUGH DRAFT: J. L. HARRIS ADVANCE: J. E. DEAL		DATE 10-3-63 10-24-63
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 2408 THRU 2412	10-6-60	08:50	1:25,000	1.0' ABOVE M.L.L.W.
	RATIO PRINTS OF ABOVE AT 1:10,000			
60 W 3296 THRU 3298	10-22-60	09:30	1:25,000	1.0' " "
	RATIO PRINT OF 60 W 3297 AT 1:10,000.			
61 W 1184	9-26-61	08:50	1:15,000	1.0' " "
COLOR PHOTOGRAPHS				
60 W 2725 THRU 2727	10-12-60	08:45	1:10,000	1.7' " "
60 W 3237 THRU 3239	10-22-60	08:35	1:10,000	1.3' " "
COMPUTED FROM PRE-DICTED TIDE TABLES.				

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	JOURNAL RANGE
REFERENCE STATION: HONOLULU		1.2	1.9
SUBORDINATE STATION: LAHAINA, MAUI		1.3	2.0
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

DATE:

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

2

RECOVERED:

2

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):

10

REMARKS:

FIELD INSPECTION REPORT

MAP MANUSCRIPT T-11971

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-11971

PROJECT 21045

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

MAP T-11071

PROJECT NO. 21045

SCALE OF MAP 1:10,000

SCALE FACTOR

[illegible]

1 FT. = .3048006 METER

COMPUTED BY: D.N.W.

DATE **8-2-63**

CHECKED BY: L.L.G.

DATE:

9-11-63

COMM- DC- 57843

COMPILATION REPORT
MAP MANUSCRIPT T-11971
PROJECT 21045

ITEMS 31 THRU 37:

REFER TO THE COMPILATION REPORT FOR T-11972.

38. CONTROLS FOR FUTURE SURVEYS:

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

39. JUNCTIONS:

SATISFACTORY JUNCTIONS WERE MADE WITH T-11970 TO THE NORTH AND WITH T-11976 TO THE WEST. KEALAIKAHIKI CHANNEL IS ON THE EAST AND SOUTH.

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.

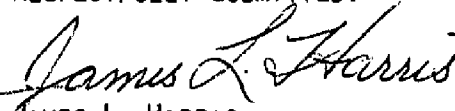
ITEMS TO BE CARRIED FORWARD:

NONE.

APPROVED:


FRED NATELLA, CAPT, C&GS
PORTLAND DISTRICT OFFICER

RESPECTFULLY SUBMITTED:


JAMES L. HARRIS
CARTOGRAPHER

49. NOTES FOR THE HYDROGRAPHER:

TEN 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	PHOTO No.
7101	SMALL ROCKY POINT	60 W 3298
7102	N.W. CORNER OF LEAN-TO	60 W 3297
7103	N.W. CORNER STONE WALL AREA	"
7104	N.W. CORNER LOW BLUFF	"
7105	SMALL BUSH ON LOW BLUFF	60 W 3296
7106	12 FT. ROCK NEAR SHORELINE	"
7107	POINT BLUFF	"
7108	CORNER BLUFF	"
7109	CORNER LEDGE	"
7110	SMALL TREE ON BLUFF	61 W 1184

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.

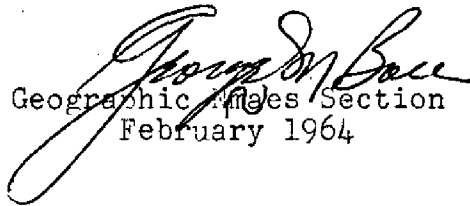
PHOTOGRAMMETRIC OFFICE REVIEW

T-30943 11971

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

Kamaiki Point
Kapoho Gulch
Kapoho Point
Kawaiu Gulch
Kealaikahiki Channel
Lanai Island
Makole Point
Naha
Naha Gulch


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 L. Luman
Chief, Photogrammetric Branch

Chief, Nautical Chart Division

M. C. Malt
Chief, Photogrammetry Division
Acting

