Form 504

U. S, DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)
Field NoOffice No. T-11954
LOCALITY
State Hawall
General locality Molokal
Locality LAAU POINT
1968-1966
CHIEF OF PARTY H. J. Seaborg, Chief of Party P. A. Stark, PhotogrammetricOffice
LIBRARY & ARCHIVES

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

		- 11954				
PROJECT NO. (II):					_	
_	21044 PH- 6201					
FIELD OFFICE (II):			CHIEF OF PARTY	Н.	J. SEAB	ORG
	Honolulu, Hawaii		UNIT CHIEF:	L.	F. VAN	Scoy
PHOTOGRAMMETRIC OFFICE (III):			OFFICER-IN-CHA	RGE		
	PORTLAND, OREGON		S	_ P.	A. STAR	K
INSTRUCTIONS DATED (II) (III):	APRIL 25, 1962 II					
	May 31, 1962 11					
AMENDMENT I:	DEC. 14, 1962 II					
AMENDMENT III:	FEB. 20, 1963 II					
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METHOD OF COMPILATION (III):						
	KELSH INSTRUMENT					
MANUSCRIPT SCALE (III):	_	L STEDEOS	DIC DI OTTINO INC	TRUMENT CO.	1 = (m)	
MANUSCRIPT SCALE (III):			PIC PLOTTING INS	TRUMENT SCA		1:3000
	1:5000	PANTOGR	APH SCALE:			1:5000
DATE RECEIVED IN WASHINGTON OF	FICE (IV):	DATE REPO	RTED TO NAUTICA	L CHART BRA	NCH (IV):	
APPLIED TO CHART NO.		DATE:		DATE REGIST	ERED (IV)	:
GEOGRAPHIC DATUM (III):			VERTICAL DATU	M_(fH):		7
			MEAN SEALE	EXCEPT AS F	OLLOWS:	X
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			Elevations shown			um
			i.e., mean low wat	er or mean lower	low water	
REFERENCE STATION (III):						
	LAAU, 1962					
LAT.:	LONG.:		X ADJUSTED			
21° 06' 18.752"	157° 18' 41.7	22"	UNADJUSTED			
PLANE COORDINATES (IV):			STATE		ZONE	
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r = 280,792.24	×= 280,165.63		HAWA	11		2
ROMAN NUMERALS INDICATE WHETHI	ER THE ITEM IS TO BE ENTER	RED BY (II) F	ELD PARTY, (III)	PHOTOGRAMME	TRIC OFFI	CE,

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II):		JANUARY -
	L. F. VAN SCOY	Остовея 1962
TEAN HIGH WATER LOCATION	ON (III) (STATE DATE AND METHOD OF LOCATION):	•
	SEPTEMBER 1962 BY FIELD INSPECTION. COMPILATION BY KELSH INSTRUMENT.	• •
PROJECTION AND GRIDS RU	ILED BY (IV):	DATE
:	A. E. ROUNDTREE	1-9-64
PROJECTION AND GRIDS CH	ECKED BY (IV);	DATE
	C. R. JOHNSON	1-9-64
CONTROL PLOTTED BY (III):	DATE
	D. N. WILLIAMS	2-5-64
CONTROL CHECKED BY (III)	R. H. Meyer	2-5-64
RADIAL PLOT OR STEREOS	COPIC CONTROL EXTENSION BY (III):	DATE
	None RECEIVED	
STEREOSCOPIC INSTRUMEN	T COMPILATION (III): PLANIMETRY	DATE
	55 A1 1844	
	D. N. WILLIAMS	2-19-64
	CONTOURS	2-19-64 DATE
	CONTOURS	
MANUSCRIPT DELINEATED	CONTOURS	DATE
MANUSCRIPT DELINEATED Smooth Draft:	CONTOURS NONE BY (III):	DATE
MANUSCRIPT DELINEATED Smooth Draft:	CONTOURS NONE BY (III):	DATE DATE 3-5-64
MANUSCRIPT DELINEATED SMOOTH DRAFT: SCRIBING BY (111):	CONTOURS None BY (III): L. L. GRAVES L. L. GRAVES	DATE DATE 3-5-64 DATE

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C&GS SINGLE LENS "WE

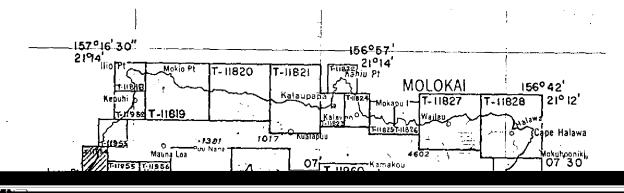
	· PHO	TOGRAPHS (III)			
NUMBER	DATE	TIME	SCALE	STA	GE OF TIDE
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S1 W 708 THRU 710 Ratio Prints of	9-23-61 BOVE AT 1:5000	08:35	n	0.18	en ii
30 W 2417 THRU 2420	10-8-60	08:25	1:25,000	1.21	11 11
50 W 2194 THRU 2197	10-2-6 4 0	10:00	π	0.41	11 13
52 W 2000 THRU 2003	1-19-62	12:25	1:15,000	0.31	ii ti
COLOR PHOTOGRAPHY:					
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30 W 2533 THRU 2536	n	08:05	TI .	1.91	11
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	COMPTIATION RECORD	COMPLETION DATE	
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	Final Review	Oct. 1970	,
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PROJECT PH-6201

SHORELINE MAPPING

1:5,000 AND 1:10,000 SCALES MOLOKAI ISLAND HAWAII



SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-11954

Shoreline survey T-11954 is one of twenty-five similar surveys in project PH-6201. The maps in this project cover the entire coast of Molokai. This map covers the area of Laau Point at the southwest tip of the island. See page 5 of the Descriptive Report for the area within the project.

Field work preceding compilation consisted of identification of horizontal control, field inspection, shoreline inspection and identification of fixed aids to navigation.

Compilation was at 1:5,000 scale by Kelsh Instrument using the photography obtained in October 1960, September 1961, and January 1962. Cronaflex copies of the map manuscript along with specially prepared photographs and ozalids were subsequently provided for transfer of the shoreline to the boat sheets, photo-hydro support, and field edit use.

Field edit was done in conjunction with hydrography on boat sheets H-8994 (AR-10-3-68) and H-8974 (AR-10-1-68).

The manuscript was a vinylite sheet 2 minutes 30 seconds in latitude by 2 minutes in longitude. After application of field edit data the manuscript was scribed and reproduced on cronaflex. Final review was in the Atlantic Marine Center in October 1970. One cronaflex positive and a negative of the final reviewed survey are forwarded for record and registry.

U. S. DEPARTMENT OF COMMERCE NOAA-NATIONAL OCEAN SURVEY DATE EXTENSION OTHER MATERIAL This is to signature of authorized official LOCATION SIGNATURE REPORT S MIDDLE INITIAL **VAULT MATERIAL RECEIPT** (See Instructions on Reverse) HYDROGRAPHIC SHEET NUMBER certify that the above named employee is authorized to use the classified material listed hereon. Signature of Requester Classified Material - Authorization: FIRST REPORT S Received for Return to Vault Received for Delivery SHEET NUMBER TOPOGRAPHIC Bear H OFFICE CIRCULAR 63-1 PRESCRIBED BY NOS NGAA FORM 62-3 LAST NAME

FIELD INSPECTION REPORT.

Map Manuscripts T-11952 thru 11965 T-11818 thru 11828

Project PH-6201

January - October 1962

2. AREAL FIELD INSPECTION

The area covered by this report encompasses the whole of the island of Molokai. This is the fifth largest of the group of islands that form the State of Hawaii. The island was originally formed by the eruption of two volcanos. One was located somewhere near the east end of the island and the other somewhere near the west end. Following these eruptions the numerous deep drainages were created by stream errosion and the ocean created the great cliffs along the north coast. A later eruption formed the Makanalua Peninsula on the north central coast. The Kauhako Crater remains as evidence of this eruption. The highest peak is Kamakou which is 4958 feet above sea level.

The climate of the island varies considerably depending on the elevation and location in relation to the prevailing trade winds. The mean annual temperature at sea level is about 74 degrees. The temperature seldom varies more than 10 degrees except at the higher elevations. The yearly rainfall varies from about 7 inches around Kaunakakai to over 150 inches in the high mountain sections of the northeast.

The only port in use on the island is located at Kaunakakai. A small wharf connected to the shore by a long mole is used to load and unload barges, and serve small commercial and private boats. At one time a rail-road connected the wharf to the area now known as Hoolehua Homesteads. It was abandoned soon after completion as the sugar plantation it was constructed to serve was a failure. The economy of the island is almost wholly dependant on the growing of pineapple and cattle ranching.

The wharf located at Kolo was used for a time to load pineapple from the Maunaloa area. It was later abandoned and since that time has been partially destroyed by fire. The wharf located at Kamalo is now in poor condition and seldomed used except by an occasional small fishing or pleasure boat. The wharf located at Pukoo is no longer in evidence. Located at Haleolon is a small harbor protected by a breakwater. This is a private harbor and is used to load sand and cinder barges for shipment to Cahu. A small private airstrip is located along the easterly breakwater.

Located on the Makanalua Peninsula is the small settlement of Kalaupapa. The settlement is maintained by the State of Hayaii, Department of Health for the treatment of Hanson's Disease (Lepersey). Special permission must be obtained from the state before visiting this area. No facilities for serving the public are permitted on the peninsula. The U.S. Coast Guard maintains an isolated light station at the northern tip of the peninsula. The area is served by limited airplane service and supplies are brought in by barge at infrequent intervals. A small wharf protected by a short breakwater is located at the settlement. This area is isolated from the remainder of the island except for a foot trail that leads down the steep rocky cliffs from the top of the pali southwest of the settlement.

Shoreline around the island vary from the almost vertical rock cliffs along most of the north and east coast, to the narrow and relatively flat coastal areas along the south coast. Most of the south coast is protected by an offshore reef. A few sandy beaches are located along the south and west coasts. Most of the north coast is accessable only by boat and any landings there should be attempted with extreme caution.

Photography was adequate for the identification of horizontal control and shoreline inspection for most of the island. A few sections of the shoreline along the northeast coast of the island were in complete shadow from the most vertical cliffs.

The shoreline for the entire island was visually inspected an the mean high water noted on the field photographs. The shoreline along the north coast except for the Makanalua Peninsula was inspected by cruising offshore in a small boat. The work was difficult due to the small size of the boat, the rough seas, and strong winds. A few landings were made on the more prominent points along the northeast coast. The remainder of the



Kolokai VOR (MKK)
Puu Apalu, Tank
Ilio Pt., Coast Guard Loran Mast
Waiahewahewa, Aero Beacon Red Light
Laau Pt. Light
Kaunakakai Harbor, Entrance Range, Front Light
Kaunakakai Harbor, Entrance Range, Rear Light

- (b) No datum adjustments were made by the field party.
- (c) WAIELI 2, 1945 was the only control station identified that was not established by the Coast and Geodetic Survey. This station was established by the Territory of Hawaii and can be considered as third order accuracy. The station was destroyed before it could be tied to the 1962 work. HELEMA, 1962 which is located about a half mile west of this station was later identified. All other control stations identified were established by the Coast and Geodetic Survey or tied to by the geodetic party during the 1962 season. Many of the old stations could not be recovered and new stations had to be established to meet the control requirements.
- (d) Control stations were positively identified in all areas indicated on the control diagram.
- (e) All control stations within the limits of the project except for a few along the inaccessable northeast coast of the issland were searched for. Part of this recovery was performed by the geodetic party located on the island. All station searched for were listed on Form 526 which was submitted to the Honolulu District Officer. A complete list of all stations reported lost on Form 526 would have to be obtained from the Honolulu District Officer or the Division of Geodesy. No stations that were listed as lost were identified for use in the plot.
- (g) The quality of identification of each station or substitute station has been indicated on the control station identification card. None of the identification was considered to be sub-standard.

4. VERTICAL CONTROL

The only vertical control requirement was the recovery of all tidal bench marks in the project area and identification of one mark in each of the groups.

All tidal bench marks listed at Fukoo, Kamalo, Kaunakakai, and Kolo were searched for. A total of 18 bench marks were searched for. All marks were listed on Form 685 which was submitted to the Honolulu District Officer.

A total of 13 U, S. Geological Survey bench marks were searched for. These marks were used in conjunction with the tellurometer traverse work on the island and for use in determining the elevation of landmarks. All marks were listed on Form 685 which was submitted to the Honolulu District Officer.

5. CONTOURS AND DRAINAGE

Contours not applicable

Drainage is self evident on the photographs. All streams except for a few in the larger valleys of the northeast coast and near the east end of the south coast are intermittent. During the wet season there are dozens of waterfalls cascading from the tops of the cliffs and rims of the valleys of the northeast coast. Marsh areas have been indicated on the field photographs.

6. WOODLAND COVER

The mountainous areas of the northeast part of the island is covered with a dense growth of native ferns and hardwoods. A large stand of planted softwoods is located along the top of the pali in the north central part of the island. Keawe trees which were introduced to the island about 100 years ago cover most of the remainder of the island except for the cultivated areas. Along the mud flats of the south coast there are scattered stands of introduced Mangrove trees.

7. SHORELINE AND ALONGSHORE FEATURES

(a) The mean high vater line was indicated on the photographs. Along some sections of the northeast coast the shoreline was obscured due to the shadows created on the photographs from the almost vertical cliffs. In some areas of the south coast the shoreline was partially obscured by low overhanging Kiawe trees. In most cases this overhang was less than 10 meters and the approximate correct location was indicated on the photographs. Also along the south coast there are scattered stands of Mangrove trees. In these areas the mean high water line was indicated as apparent shoreline.

The shoreline along the north, east, and small areas of the west and southwest coast contain many areas of alongshore rocks, projecting reefs and ledges, and almost vertical bluffs. These features combined with a normally heavy serf breaking along the shore tend to confuse the location of the mean high water line on the photographs.

Where possible especially along the beach areas and the more accessable sections of the coast the location of the mean high water line was determined by measurements to near by objects.

- (b) The low water line was not indicated on the photographs.
- (c) Mhere possible the character of the foreshore was indicated on the photographs.
- (d) The north, east, and sections of the west and southwest coast is boardered by rocky cliffs. In some cases these cliffs are over 2000 feet high. Along most of the south coast, sections of the west coast, and the Moomomi area the land has a more gradual slope with a small relatively flat area adjacent to the coast.
- (e) The only unnatural features to be found in the project area were located at Kalaupapa, Kamalo, Kaunakakai, Kolo, and Haleolono. All information regarding these features was indicated on the field photographs.

(f) Not applicable

(g) Along the south shore there are the remains of many fishponds. The stone walls for some of these have been completely leveled and for most of the others large sections of the walls have been leveled. The location of these fishponds is apparent on the photographs.

8. OFFSHORE FEATURES

Offshore rocks are located along many areas of the north, east, and sections of the west and southwest coast. Most of these rocks that are visible on the photographs are adjacent to the shore. In these areas it is probable that there are many rocks that are not visible on the photographs but are close enough to the surface of the water to consider the foreshore as being foul with submerged rocks. The height of many of the rocks along the shore were estimated at the time the shoreline was inspected.

A reef about 0.5 to 1.0 mile offshore is located along most of the south coast. Between the reef and the shore there are scattered areas of sand and many coral heads that project at low water.

9. LANDMARKS AND AIDS

- (a) All charted landmarks were investigated by the field party. A total of 13 old landmarks were deleted from the charts and four old landmarks were retained. A total of 11 new landmarks were selected for charting. The old landmarks which were to be deleted were indicated on the sections of the charts on which they appeared. These sections of the charts will be submitted with the field records. All old landmarks that were retained and the new landmarks selected for charting were listed on Form 567, and the elevation for each landmark was determined by the field party.
 - (b) No interior landmarks were seetted for charting.

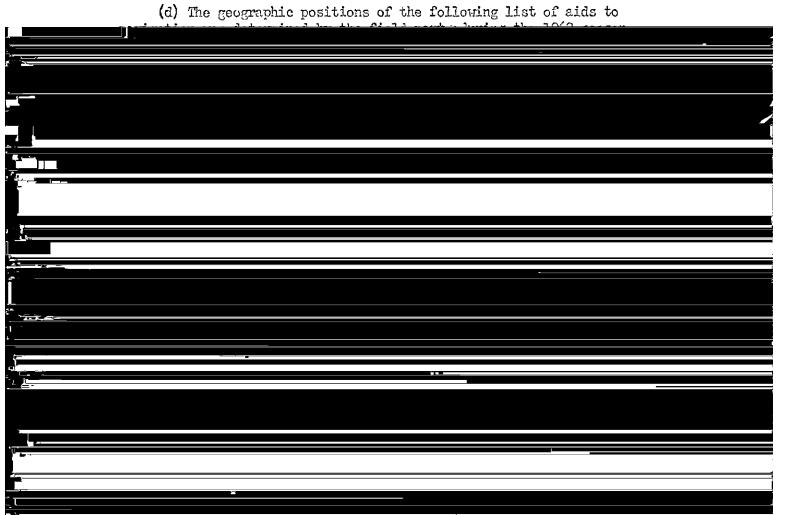
(c) The geographic positions for the following charted aeronautical aids was determined by traverse or triangulation during the 1962 field season.

Molokai, Airport Beacon Waiahewahewa, Aero Beacon Red Light Waihuna, Aero Beacon, Red Light Kualapuu, Aero Beacon, Red Light

The geographic position of one new aeronautical aid selected for charting was determined during the 1962 field season.

Molokai VOR (MKK)

All aeronautical aids to be charted were listed on Form 567 and the elevation for each aid was determined by the field party.



Laau Pt. Light Ilio Pt., Coast Guard Loran Mast Kaunakakai Harbor, Entrance Range, Front Light Kaunakakai Harbor, Entrance Range, Rear Light

All nautical aids to be charted were listed on Form 567 and the elevation for each aid was determined by the field party.

(e) Not applicable

All public buildings with their function was indicated on the field photographs.

The main airport serving the island is located south of the Hoolehua Homestead area in the central section of the island. A small airport for use by small aircraft is located on the Makanalua Peninsula. A small private airstrip is located at Haleolon near the southwest end of the island.

No bridges or overhead cable crossings over navigable water are located in the project area. There are no submerged cables connecting the island with other areas.

13. GEOGRAPHIC NAMES

Not Applicable

OCT 3 0 1962

H. Seaborg Capt., C & G S

Honolulu District Officer

Respectfully submitted:

Leonard F. Van Scoy Supervisory Survey Technican

Unit Chief, C & G S

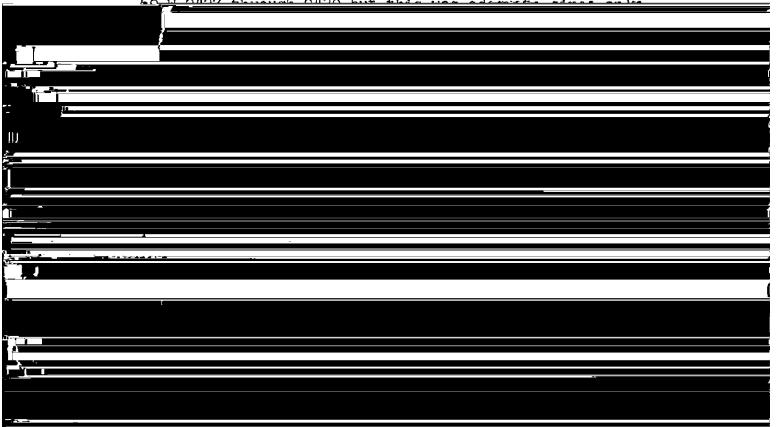
Photogrammetric Plot Report Project 21044 Molokai, Hawaii August 1963

21. Area Covered

The bridging furnishes control for the compilation of five shoreline surveys on the southwest shore of Molokai Island. They are T-11954 through T-11956 at a scale of 1:5,000 and T-11957 and T-11958 at a scale of 1:10,000.

22. Method

Two strips, 10 and 11, were bridged analytically at a scale of 1:25,000. Strip 10 using photographs 61-W-695 through 710 was adjusted on four horizontal control points. Strip 11 was adjusted as a straight line using photographs



23. Adequacy of Control

Control complied with project instructions. It was well distributed and was adequate. Closures to control and tie points for the two strips are shown on the attached aerotriangulation sketch.

24. Supplemental Data

LAT. 21.10.

_	120 PUU O KAHANUI 1925 100 (+0.3 0.0)	(0.0 0.0)			· ·
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	(+0.7 -0.7) (+0.1 -1.1) 70 0	9	M1906		7-11957
	- 6-89 -2.7)	HELENA 1962 Store 10,		T-11955 (-01 +0.8)	
\	- 1, c	1 W 7/0 CD C C W	200	LAAU 1962	(-0.8 +1.5) (0.0 -0.4)

AEROTRIANGULATION SKETCH MOLOKAI ISLAND HAWAII STRIPS 10 4 11 2.1044

ADJUSTMENT

B CONTROL USED IN △ CONTROL USED AS

CHECK

AUGUST 1963



DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 11954 PROJE	PROJECT NO: 21044	SCA	SCALE OF MAP 1:5000 SCALE	E FACTOR
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Pt. = 3048006 meter) FORWARD (BACK)
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COMPUTED BY	DATE 2 4 64		CHECKED BY D.:NW.	DATE 2.5-64
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COMPILATION REPORT

MAP MANUSCRIPT T-11954

PROJECT 21044

TEME 31 THRU 36:

REFER TO THE COMPILATION REPORT FOR T-11954.

37. LANDMARKS AND AIDS:

ONE NON-FLOATING AID IS SHOWN ON THIS MANUSCRIPT. FORM 567 IS SUBMITTED.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Satisfactory junctions were made with T=11953 to the north and with T=11955 to the east. The Pacific Ocean is on the west and south.

40. HORIZONTAL AND VERTICAL ACCURACY:

46. COMPARISON WITH EXISTING MAPS:

Comparison was made with the U.S.G.S. $7\frac{1}{2}$ minute, Ilio Point, Hawaii, Quadrangle, scale 1:24,000, Edition 1952.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Nautical Chart 4120, scale 1:80,000 at Lat. 21 $^{\circ}$ 01 $^{\circ}$, 1st edition, revised Feb. 4, 1963.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

NONE.

ITEMS TO BE CARRIED FORWARD:

None.

APPROVED:

P. A. STARK, CDR, C&GS PORTLAND FIELD OFFICER SUBMITTED:

JAMES L. HARRIS CARTOGRAPHER

JB.

September 11, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6201 (Molokai Island, Hawaii)

T-11954

Kahaiawa

Kahalepohaku

Kaheu Gulch

Kamakaipo (village)

Kamakaipo Gulch

Keawakalani

Laau Point

Pacific Ocean

Molokai

Approved by:

A. Joseph Wraight

Chief Geographer

Prepared by:

Frank W. Pickett

Cartographic Technician

49. Notes for the Hydrographer:

None.

USCOMM-DC 16252-P61

C&GS FORM 1002			U.	S. DEPARTMENT OF COMMERCE
((1-13-61)	PHO	TOGRAMMET	TRIC OFFICE REVIEW	CONST AND GEODETIC SONTE
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1. PROJECTION AND GRIDS	12 TITLE	·	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
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		·		
CONTROL STATIONS	<u> </u>		<u> </u>	
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF	6. RECOVERA	BLE HORIZONTAL STATIONS	7. PHOTO HYDRO STATIONS
THIRD-ORDER OR HIGHER	CCURACY	(Topographi	ç etetionə)	Not Applicable
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8. BENCH MARKS	9. PLOTTING (OF SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
None	Noi	12	ν	None
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ALONGSHORE AREAS (Nautice 12, SHORELINE	13. LOW-WATE	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
	Non			None
	////	~		// // /
16. AIDS TO NAVIGATION	17. LANDMARK	-	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
	Non-	e		1
	<u> </u>			<u> </u>
PHYSICAL FEATURES				
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS
ν]		Not Applicable
23. STEREOSCOPIC	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	<u></u>
23. STEREOSCOPIC INSTRUMENT CONTOURS	1		None	26. OTHER PHYSICAL
Not Applicable	Not App	reapre	None	
CULTURAL FEATURES				<u> </u>
27. ROADS	28. BUILDINGS	5	29. RAILROADS	30. OTHER CULTURAL FEATURES
	V		None	· · ·
	<u> 1</u>		<u> </u>	<u> </u>
BOUNDARIES 31. BOUNDARY LINES			32. PUBLIC LAND LINES	
None	-		None	
MISCELLANEOUS			1	
33. GEOGRAPHIC NAMES		34. JUNCTION	\$	35. LEGIBILITY OF THE
		·		MANUSCRIPT
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39, FORMS
None	μ μ			
40. REVIEWER	<u> </u>		SUPERVISOR, REVIEW SECTION	ON OR HAIT
& L.L. GH	nvac		1	
L.L. GR	7 -63		Leo F. Beu	and t
41. REMARKS (See attached she	et)		· · · · · · · · · · · · · · · · · · ·	
FIELD COMPLETION ADDITION		TIONS TO THE	AANUSCRIP T	
42. Additions and corrections script is now complete ex	s furnished by the cept as noted un-	e field completeder item 43.	ion survey have been applied t	to the manuscript. The manu-
COMPILER	· · · · · · · · · · · · · · · · · · ·		SUPERVISOR	
111			1 / 20	4
J. L. Harr	ۍ.		Leo F. Be	ugnel
43. REMARKS			•	,

Field Edit Report To Accompany T 11954

USC&GSS McARTHUR

Ronald L. Newsom CDR, USESSA Commanding Officer

51 METHODS

Manuscript T 11954 was field edited by personnel aboard the USC&GSS McARTHUR in conjunction with hydrography on boatsheets AR 10-3-68, H 8994, and AR 10-1-68, H 8974. The shoreline was inspected from Launches and Skiffs. Constant heavy swell made it impossible to determine the MLLW line.

Field edit information was shown in violet ink on four (4) contact prints, 61W1247, 61W1248, 61W709 and 61W710 and indexed on the discrepancy ozalid copy of T 11954 in violet ink.

52 ADEQUACY OF COMPILATION

Manuscript T 11954 was completely adequate for a hydrographic survey.

54 RECOMMENDATIONS

None

56 MISCELLANEOUS

There is a strong current with eddies flowing in a general westerly direction off Laau Point on the south west corner of Molokai. This is apparently a littoral drift current and the sediment laden waters of this current can be identified in photos 61W710, 61W1249 and 61W1250.

This oceanographic feature may be worth further investigation at some future time.

REVIEW REPORT T-11954

SHORELINE

OCTOBER 27, 1970

61. GENERAL STATEMENT:

See Summary, which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

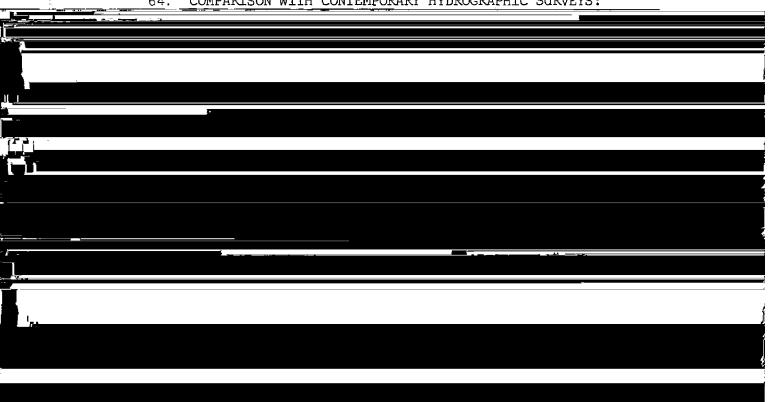
A visual comparison was made with a copy of registered survey No. 3526, 1:20,000 scale dated 1915. Survey No. 3526 is somewhat generalized because of its scale. No major conflicts were noted.

Registered survey No. 3526 is superseded by T-11954 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with U.S.G.S. ILTO POINT, HAWAII, 8.5 by 7.5 minute quadrangle, 1:24,000 scale edition of 1952. The two surveys are in good general agreement.

COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:



ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Reviewed by:

Leo F. Beugnet Cartographer

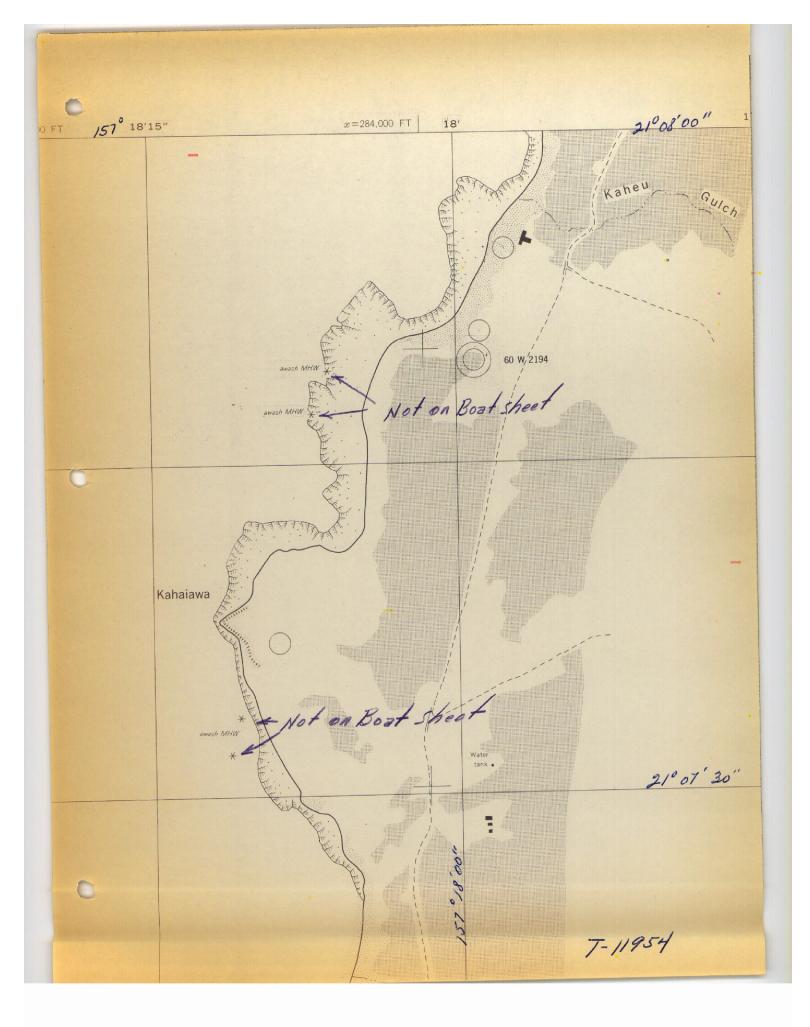
Approved by:

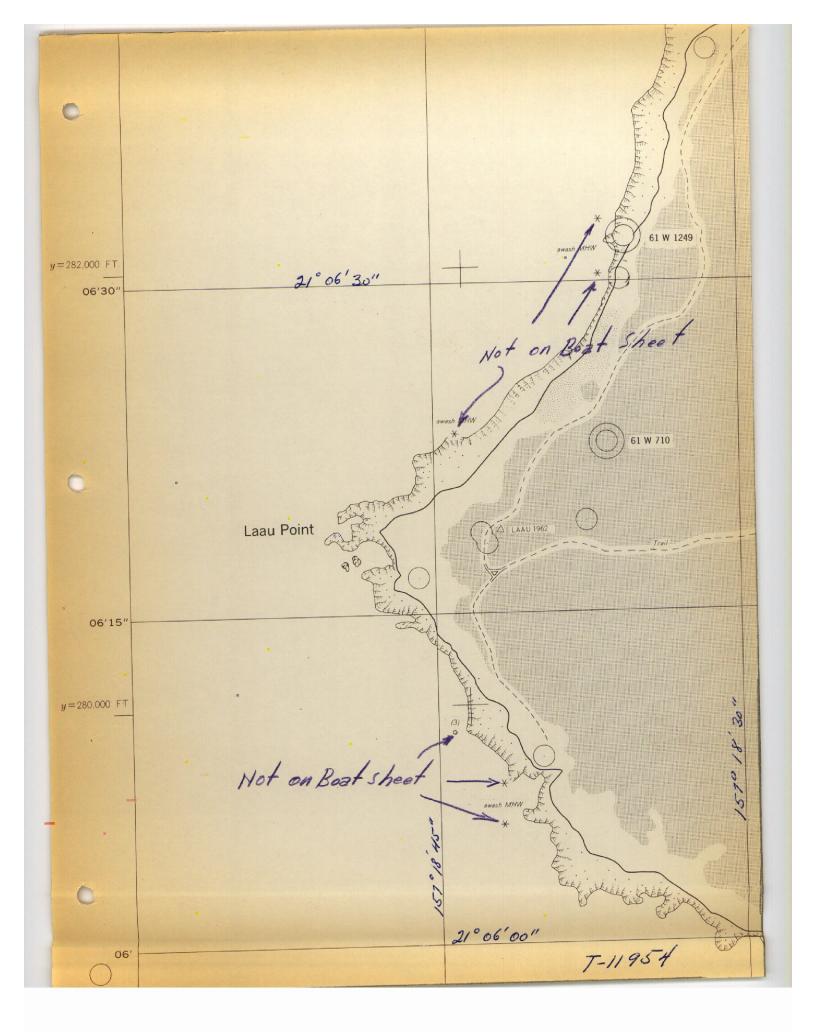
Allen L. Powell, RADM, NOAA

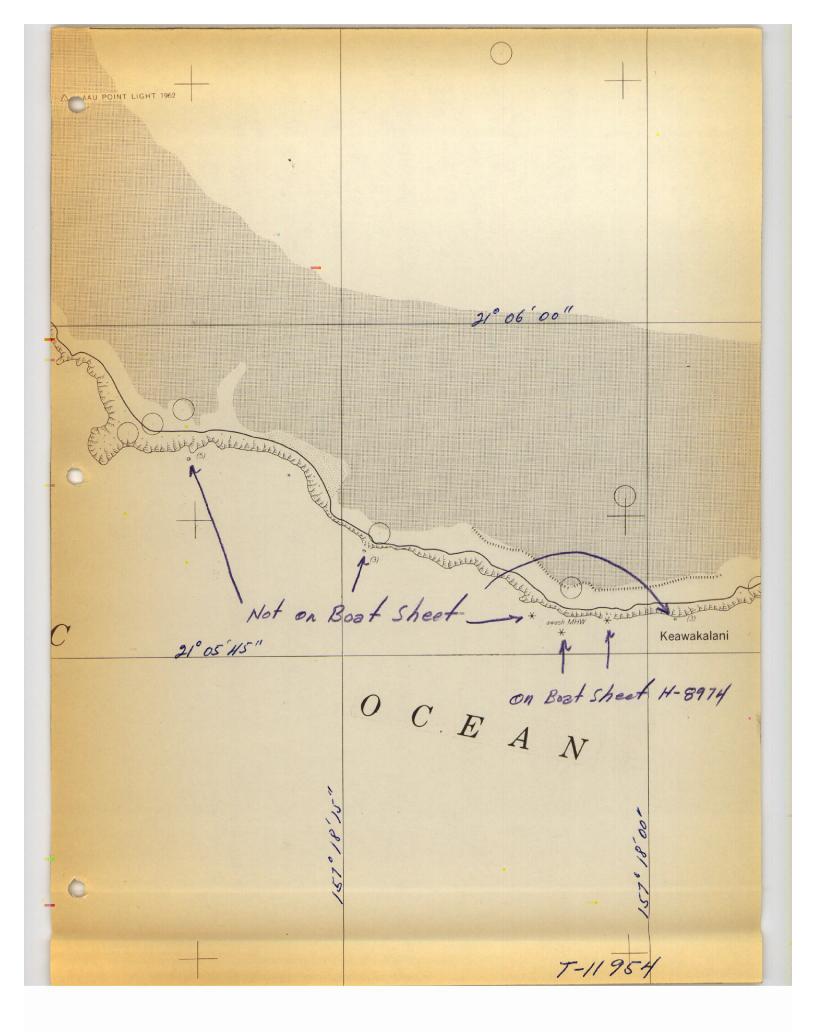
Director, Atlantic Marine Center

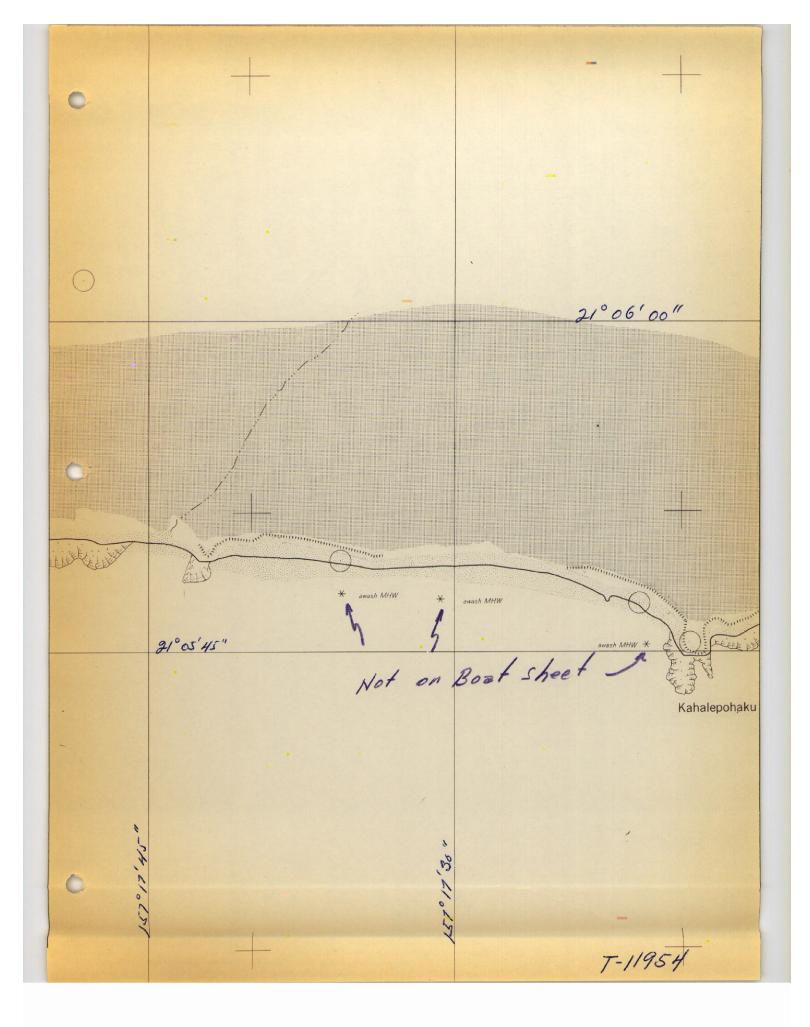
Approved by:

Chief, Photogrammetric Branch Chief, Photogrammetry Division









U.S. DEPARTMENT OF COMMERCE COAST AND GEODET COAST AND GEODET

Nautical Chart Branch

1964

NONFLOATING AIDS GREXEMONDMEARKS FOR CHARTS

I that the following objects which have (kannex most) been inspected from seaward to determine their value as landmarks be JUNE 5 PORTLAND, OREGON executions the charts indicated.

J. L. HARRIS s given have been checked after listing by

							۵	A. STARK	R.	Ç.	Chief of Party.	arty.
				ă.	POSITION			METHOD		MAI	THAM:	
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DESCRIPTION	SIGNAL			D.M. METERS	, ,	" D. P. METERS	DATUM	BURVEY No.		INZNO		
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USCOMM-DC 16234-P61 conting aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be harts of the area and not by individual field survey sheets. Information under each column heading should be given. be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted