Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline(Photogrammetric) Field No. Office No. T-11819
LOCALITY
State Hawaii
General locality Molokai
Locality Mokio Point
Lovarry
1964 - 1968
CHIEF OF PARTY
Allen L. Powell, Director, AMC
LIBRARY & ARCHIVES
DATE

USCOMM-DC 5087

,	DESCRIPTIVE REP	ORT - DATA [- 11819			
PROJECT NO. (II):	<u> </u>			<u> </u>	
PH-6201					
FIELD OFFICE (II)			CHIEF OF PARTY	_	
Honolulu, Hawaii			H. J. Sea	borg	
PHOTOGRAMMETRIC OFFICE (III):			OFFICER-IN-CHAI	RGE	
Atlantic Marine Cent	er		Allen L. P	owell, Di	rector, AMC
INSTRUCTIONS DATED (III) (III):			<u> </u>	· -	
Field Office Compilation Office Compilation, Office Compilation, Office Compilation, Office Compilation,	Amendment II Amendment III		April 25, May 31, 19 December 1 February 2 January 8, April 24,	62 4, 1962 0, 1963 1964	
METHOD OF COMPILATION (III):			······	7	
Wild B-8					
MANUSCRIPT SCALE (III):			PIC PLOTTING INS	-	
1:10,000		1 .	00 Pantograp		
DATE RECEIVED IN WASHINGTON OF	FICE (IV):	DATE REPO	ORTED TO NAUTICA	AL CHART BRA	NCH (IV):
APPLIED TO CHART NO.		DATE:		DATE REGIST	FERED (IV):
GEOGRAPHIC DATUM (III):		<u> </u>	VERTIGAL DATU NIGN W MEAN SER LEVE	M (III); ater L Except As I	FOLLOWS:
Old Hawaiian			Elevations shown Elevations shown i.e., mean the west	as (5) refer to s	ounding datum
REFERENCE STATION (III):		*****			<u> </u>
KAEO 1925					
LAT.:	LONG.:	1.20	X ADJUSTED UNADJUSTED		
PLANE COORDINATES (IV):			STATE		ZONE
y = 321,021.50 ft.	×= 307,494.30 ft.		Hawaii		2
ROMAN NUMERALS INDICATE WHETHI OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONN					

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD.

FIELD INSPECTION BY (II):		DATE:
L.F. Van Scoy		August 29, 1962
MEAN HIGH WATER LOCATION (III) (STATE D	ATE AND METHOD OF LOCATION):	
2 October 1960 Wild B-8 Plotter		
PROJECTION AND GRIDS RULED BY (IV):	,	DATE
A. E. Roundtree		2-2-65
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. Glaser		2-10-65
CONTROL PLOTTED BY (III): Portland		DATE
Photogrammetric Office		1965
CONTROL CHECKED BY (III):		DATE
Portland Photogrammetric	Office	1965
rorezana znotogrammetrza	411100	
RADIAL PLOT OR STEREOSCOPIC CONTROL	EXTENSION BY (III):	DATE
H. P. Eichert		Dec. 1964
STEREOSCOPIC INSTRUMENT COMPILATION		DATE
	A. L. Shands	July 18, 1967
	CONTOURS	DATE
	Inapplicable	
MANUSCRIPT DELINEATED BY (III):		DATE
A. L. Shands		August 18, 1967
CRIBING BY (III):		
B. L. Barge		October 31, 1969
PHOTOGRAMMETRIC OFFICE REVIEW BY (III) Field Edit R. E	. Bishop . Smith	\$\frac{\chi_{\text{f}}}{\chi_{\text{c}}}t. 1, 1967 Oct. 8, 1969
Scribing R. E	. Smith	December 23, 196
REMARKS: Field edit by: Roland I	. Newsom Mar	ch & April 1968
		· · · · · · · · · · · · · · · · · · ·

DESCRIPTIVE REPORT - DATA RECORD

ERA (KIND OR SOURCE) (III):

Wild RC-8 "W"

	PHO	TOGRAPHS (III)		
NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 -W- 2178 thru 2182	2 Oct.1960	0850	1:25,160	0.8 Ft. above MLI
61-W-1034 thru 1036	24 Sept.1961	1210	1:15,000	1.4 Ft.above MLLM

TIDE (III)	PREDICTED	·L		DIURNAL
		RATIO OF RANGES	MEAN RANGE	RANGE
REFERENCE STATION: HONOLULU			1.2	1.9
ordinate station: Waimanalo		0.92	1.1	1.8
SUBORDINATE STATION:				
WASHINGTON OFFICE REVIEW BY LIVE F. Beugnet, Allantic /	mine Can fer	DATE:	4 1970)
PROOF EDIT BY (IV):		DATE:	/	
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	RECOVERED:	IDENTIFIE	: D ::	
NUMBER OF BM(S) SEARCHED FOR (II): None	RECOVERED:	IDENTIFIE	D	
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):	None			
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):	6			

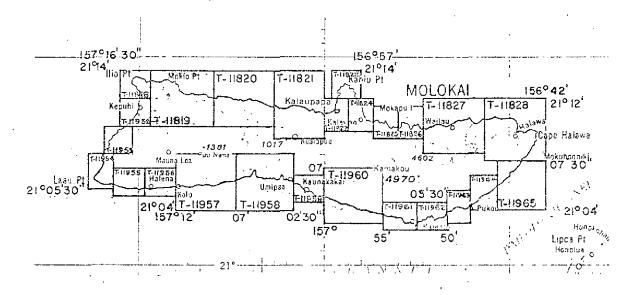
REMARKS:

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	August 1967	Superseded
Field Edit applied Compilation complete	June 27, 1969	

PROJECT PH-6201

SHORELINE MAPPING

#5,000 AND #10,000 SCALES MOLOKAL ISLAND HAWAII



Official Mileage for Cost Accounts

Sheet No.	Shoreline Lin. Mi.	Area Sq. Mi.	Sheet No.	Shoreline Lin. Mi.	Area Sq. Mi
11818 11819 11820 11821 11822 11823 11824 11825 11826 11827 11828	46643133369	46643133369	11952 11953 11954 11955 11956 11957 11958 11959 11960 11961 11962 11963 11964 11965	332 336 536 54 333	MM2 MM6 5M6 M4 MMM
		*	Total	98	98

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-11819

Shoreline survey T-11819 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 a part of the north shore from Mokio Point to Kaiehu Point.

Field work preceding compilation consisted of identification of horizontal control, shoreline and field inspection, and selection of landmarks for charts.

Compilation was at 1:10,000 scale by Wild B-8 Plotter, using photography obtained on October 2, 1960, and September 24, 1961. Cronaflex copies of the manuscript, along with ozalids and specially prepared photographs, were provided for transfer of the shoreline to the boat sheet, location of photo-hydro signals, and field edit use.

The manuscript was a vinylite sheet 4 minutes in latitude by 5 minutes in longitude. Field edit was accomplished in April 1968. After application of field edit data, the manuscript was scribed, stick-up applied, and reproduced on cronaflex. Final review was in the Atlantic Marine Center in July 1970. A cronaflex copy of the final manuscript and a negative are forwarded for record and registry.

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 Kanakou 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 seldon 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 wherf connected to the shore by a long mole is used to local and unload barges, and serve small cormercial 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 dependent 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 Komalo 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 Hansen'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 island was inspected by walking the shoreline in the more accessable areas, and by observations from vantage points along bluffs and cliffs where the shoreline could not be otherwise visited. Scattered sections of the shoreline along the south coast were obscured by overhanging Keawe trees and dense growths of Mangrove trees.

3. HORIZOHTAL CONTROL

(a) The following described intersection stations were located by traverse or triangulation as nautical aids, aeronautical aids, and landmarks.

Molokai Lighthouse Molokai Airport Beacon Waihuna, Aero Beacon Red Light Kaulapuu, Aero Beacon Red Light Molokai 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. Fart 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 COMPROL

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, Kaumakakai, 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.

10 40

Metotal 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

- (b) The low water line was not indicated on the photographs.
- (c) Where 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. LANDHARKS 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 sected 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	
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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 sircraft 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

Capt. C&GS

Honolulu District Officer

Respectfully summitted: Leonard F. Van Scoy Supervisory Survey Technican

Unit Chief, C&GS

Photogrammetric Plot Report

Project 21044

Molokai, Hawaii

December, 1964

21. Area Covered

This report pertains to the remainder of the Island of Molokai, It covers surveys T-11818 thru T-11824.

22. Method

Three strips were bridged by analytic aerotriangulation. Strips 6 and 7 were at a scale of 1:15,000 and strip 8 at 1:25,000.

During the processing of the data for strip 8, distortions were evident at the eastern terminal. Model 2169-70 was eliminated from the bridge, and model 2170-2171 appeared to have distortions also in the center and north side although the two tie points on the south side of the model agreed well with strips 4 and 6. Fortunately these models were not needed as the area is adequately covered by strips 6 and 7.

23. Adequacy of Control

The failure of horizontal points in strip 8 to hold together beyond point 86110 and 11 was attributed at first to a possible datum difference. This could not be proved. When additional measurements and a study of the cantilever output indicated distortions in the bridge, this idea was discarded.

Although control point 10100 would not hold well with 86110 and 11 in strip 8, when 10100 was used as a terminal in strip 7, tie point 10403 agreed reasonably well with strip 8.

Control complied with project instructions and was adequate.

24. Supplemental Data

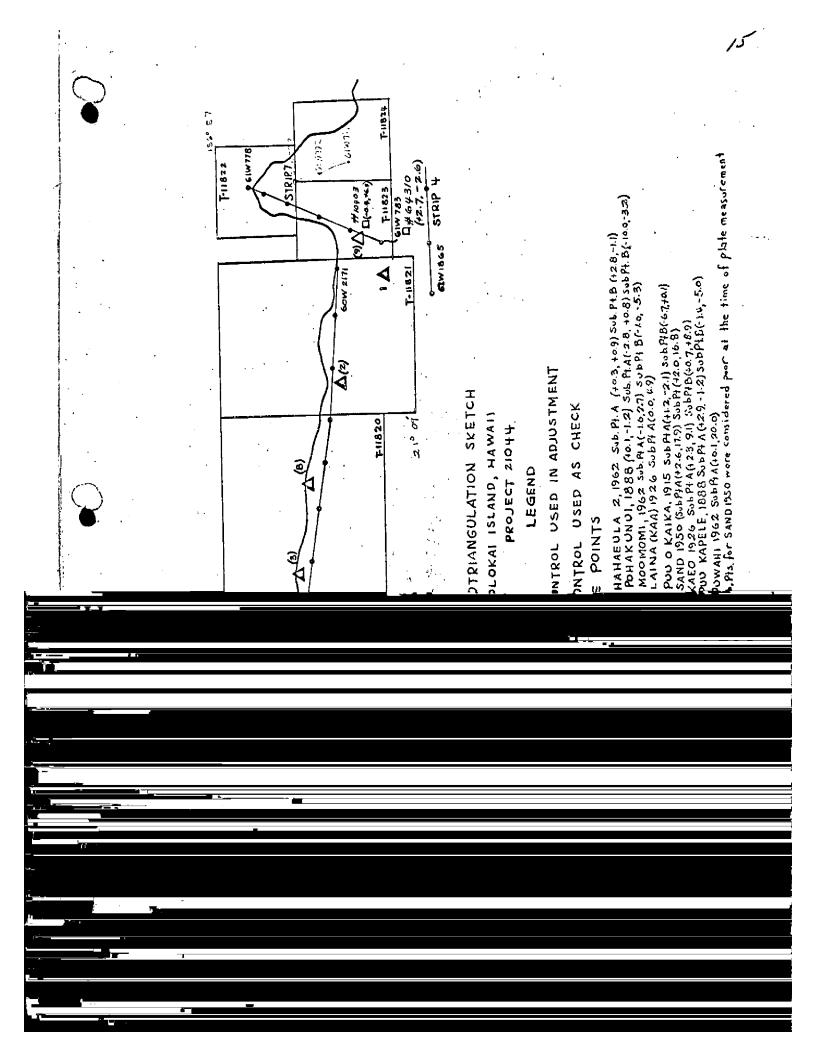
None

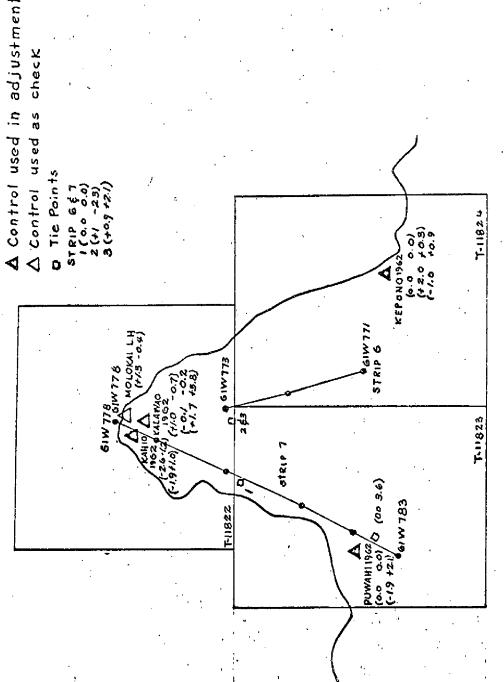
25. Photography

Photography was adequate with regard to coverage, overlap, and definition.

Respectfully submitted.

Henry P. Eichert, Acting Chief, Aerotriangulation Section





LEGEND

AEROTRIANGULATION SKETCH MOLOKAI ISLAND HAWAII PROJECT ZIOL4

FORM **164** (4-23-54)

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

DNTROL RECORD

MAP T11819		PROJEC	PROJECT NO. PH-6201	SCALE OF MAP 1:10,000	000	SCALE FACTOR)
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTÂNCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
	W.O.	Old Hawai≖	321,021.50	1,021.50 (3,978.50)			
KAEO 1925	164	ian	307,494,30	. 1	\		
LAINA KAA	\$	•	319,358,20	4,358,20 (0,641,80)			
(HGS) 1885	:	=	318,098,90				
PUU APALU	G.P.	7	210 10' 47.498" /) \	`		
TANK 1962	Ay. 112		1570 13' 58.368" /	1.683.7 (47.0) ~			
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		1					
	-						
							·
							
				•			

1 FT = .3048006 METER COMPUTED BY. C. H. Bishop

DATE August 23, 1967

CHECKED BY: F. T. Wilson

COMPILATION REPORT MAP MANUSCRIPT T-11819 PROJECT PH-6201

31. DELINEATION:

Planimetry was compiled with the Wild B-8 Plotter.

32. CONTROL:

See the Photogrammetric Plot Report by H. P. Eichert dated December 1964, submitted with compilation report for T-11822.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable.

Four intermittent drains were compiled.

35. SHORELINE AND ALONGSHORE DETAILS:

Field inspection was adequate for the delineation of the mean high water line. Foul, ledge, and bluff lines are from office inspection of the photographs. One short stretch of approximate mean lower low water line was shown near longitude 1570 ll.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS.

None

39. JUNCTIONS:

Satisfactory junctions have been made with T-11818 to the west and T-11820 to the east. There is no detail at the junction with T=11952 to the west. There are no contemporary surveys to the north and south.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison was made with USCGS Quadrangle ILIO POINT, HAWAII, and MOLOKAI AIRPORT, HAWAII. The scale for both is 1:24,000 and both dated 1952.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Nautical Chart 4116, scale 1:250,000, 12th edition, dated August 17, 1964.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Arnold L. Shands

Cartographic Technician

arnold d. Shand

2 November 1967

Approved by:

Cillon L. Paenell
Allen L. Powell

Director, Atlantic Marine Center

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6201

T-11819

HAWAII (title)

KAA GULCH

KAIEHU POINT

KALANI

KAPALAUOA

KAWAALOA

KAWAHUNA

MANALO GULCH

MOKIO POINT

MOLOKAI

IMOMOMI

MOOMOMI COVE

PACIFIC OCEAN

PUEOAO

Approved by:

A. J. Wraight

Chief Geographer

Prepared by:

F. W. Pickett

F.W. Pickett

Cartographic Technician

49. NOTES FOR THE HYDROGRAPHER:

Refer to the Field Edit Ozalid.

Photo-hydro points were selected by the field inspector in 1962.

The following is a list of photo-hydro points that are shown on the manuscript and cronapaque ratio prints for your use—if they—are still in existence.

	<u>Point</u>	Description
··· - ·	1901	Large pointed black outcrop
	1902	Large boulder
	1903	Chunk of bluff at MHWL
	1904	Top of offshore rock
	1905	Top of offshore rock
	* 1906	Top of rock

^{*} Selected in office.

FORM C&GS-1002 U.S. DEPARTMENT OF COMMERCE						
PHOTOGRAMMETRIC OFFICE REVIEW						
T- 11819						
I. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE		
			0110	OUD		
СНВ	СНВ		СНВ	СНВ		
CONTROL STATIONS						
5. HORIZONTAL CONTROL STA THIRD-ORDER OR HIGHER A	CCURACY	6. RECOVER AS OF LESS TH (Topographic	BLE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS		
CHB		(2 opograpine	χ	CHB		
8, BENCH MARKS	9. PLOTTING C	F SEXTANT	10. PHOTOGRAMMETRIC	11. DETAIL POINTS		
X	х		Bridge - W.O.	Wild B-8		
ALONGSHORE AREAS (Nautical Chart Data)						
12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES		
СНВ	х		CHB	х		
16. AIDS TO NAVIGATION	17. LANDMARKS		18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES		
х	х		СНВ	CHB		
PHYSICAL FEATURES						
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANEYABLE CONTOURS		
СНВ		<u>.</u>	χ	χ		
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES		
х	х		χ	X		
CULTURAL FEATURES						
27. ROADS	28. BUILDINGS	i	29. RAILROADS	30. OTHER CULTURAL FEATURES		
СНВ	CHB		Х	Х		
BOUNDARIES 31. BOUNDARY LINES 132. PUBLIC LAND LINES						
31. BOUNDARY LINES X X						
MISCELLANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTION		125 - 50101 - 54 - 5 - 54		
33. GEOGRAPHIC NAMES		1 34 TONCTION	•	35. LEGIBILITY OF THE MANUSCRIPT		
CHB			CHB	CHB		
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION	39. FORMS		
X	СНВ	}	СНВ	CHB		
40. REVIEWER Charles H.Bis	/	· — <u>- · — – · — –</u>	I albert C.	N OR UNIT		
C. H. Bishop	hop		Albert C. Rauck			
41. REMARKS (See attached shee	.4\	·		,		
FIELD COMPLETION ADDITION		TIONS TO THE M	ANUSCRIPT			
42. Additions and corrections script is now complete exc	furnished by the	e field complet der item 43.	ion survey have been applied to	o the manuscript. The manu-		
COMPILER			SUPERVISOR	a Raugh 1		
A.C. Rauck Rev. by: R. E. Smij	June 30 <u>t</u> h_Oct. 8,	•	Albert C. Rauc	e. Rauck. J.		
43. REMARKS DE Smi	e8			· 		
Field edit app	plied from		Edit Ozalid atios - 60-W-2179 a	and 2181		
I						

Field Edit Report To Accompany T 11819

USC&GSS McARTHUR

Ronald L. Newsom CDR, USESSA Commanding Officer

51 METHODS

Manuscript T 11819 was field edited by personnel aboard the USC&GSS McARTHUR in conjunction with hydrography on boatsheets AR 10-2-6% (H 8968) and AR 20-3-68 (H 8982). Shoreline inspections was accomplished from Launch AR-1 and it was found that the heavy swell and resulting surf made delineation of the MLLW line impossible. Additions and corrections to the manuscript have been noted on the one field edit ozalid provided for T 11819 and then cross referenced and noted in violet ink on photo numbers 60W2179 and 60W2181. No deletions were necessary.

52 ADEQUACY OF COMPILATION

Manuscript T 11819 is complete and adequate for use in conjunction with this hydrographic survey. The inshore area, with the exception of the shoreline and bluffline, was not field edited.

54 RECOMMENDATIONS

None

REVIEW REPORT T-11819

SHORELINE

JULY 21, 1970

61. GENERAL STATEMENT

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

62. COMPARISON WITH REGISTERED SURVEYS

There were no registered surveys of the area available at the time of final review for comparison purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS ILIO POINT and MOLOKAI AIRPORT, HAWAII, quadrangles. These are 1:24,000-scale surveys, dated 1952. These surveys are in fairly good agreement with T-11819. The difference in the shoreline of the three surveys has been indicated on the comparison print in brown.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of H-8982, AR-20-3-68. The shoreline of the two surveys is in good agreement.

A rock at latitude 21° 13' 18", longitude 157° 13' 12" is noted on the boat sheet as awash 2 to 4 feet. This rock appears to be submerged on the photographs of the area. All differences in rock data have been indicated on the comparison print in purple.

65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with Chart 4120, 3rd edition, October 14, 1968. The shoreline of the two surveys appears to be in good general agreement.

66. 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, USESSA

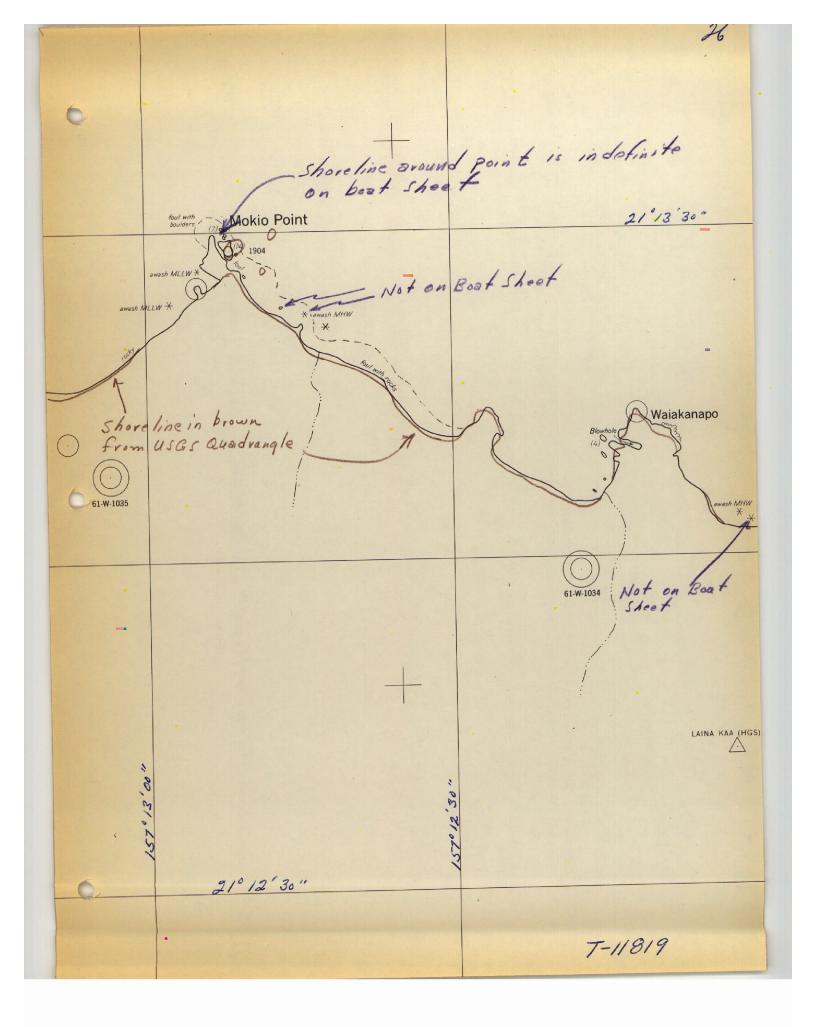
Director, Atlantic Marine Center

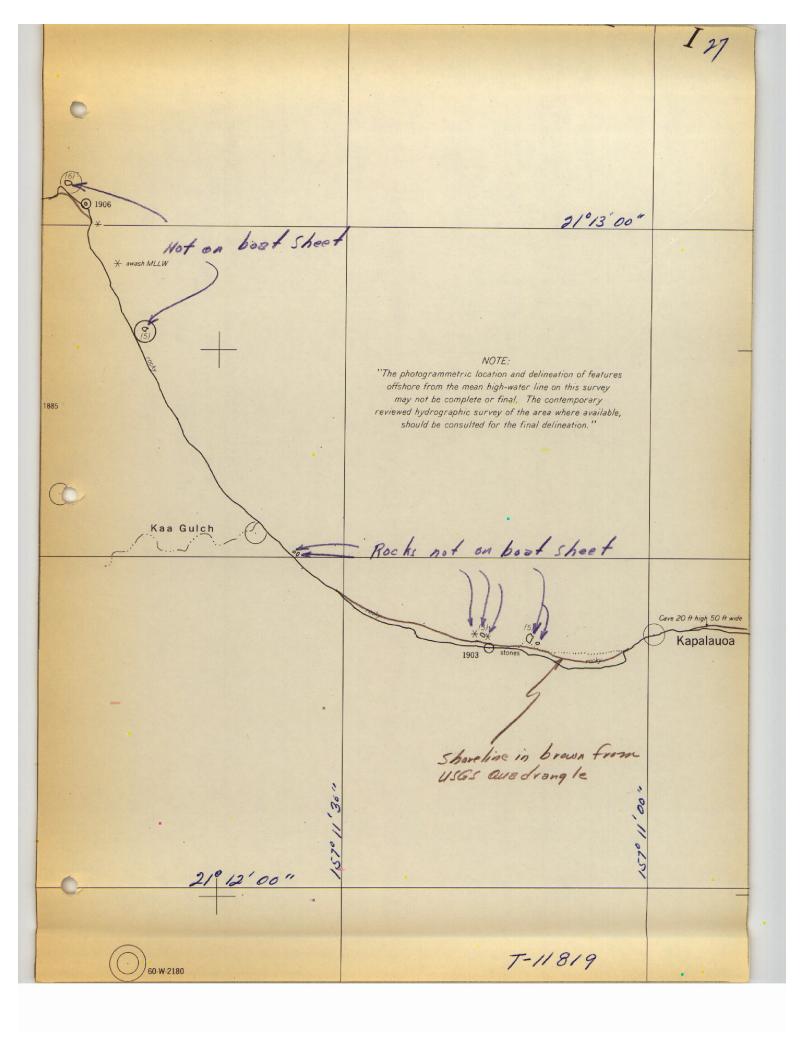
Approved by:

Chief, Photogrammetric Branch ps B

Chief, Photogrammetry Division

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y=325,000 FT.	_
	tion
21° 13'30"	05.7
21° 13'30" - No vock visible at this P No vock visible at photos four 2180-2182	
Photos 600	
	rock - + + + +
1905 awash MLLW () 81-W-1036 () 0(2) four Vis	nly one rock - * tout it is avea
Pueo al o	
	No bare rock Visible on Photographs
shoreline in brown from USGS quadrangle	Visible on Photographs
2/° 13′	
△ KAEO 1925	
y=320,000 FT.	
3	3,30,
• (3)	21,
2/° 12'30"	
	T-11819





	28
	21° 12′ 30″
only that area delineated as reef is visible on the photo	
roef is visible on the photo	graphs
Sorte.	
dashed on boot sheet	
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Kalani	
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Sand dunes	D139 1349
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from	in brown le s Quadrangle
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	- Manalo Gulch
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21°11'30"	1110.1

