Form 504

U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey	SHORELINE (PHOTOGRAMMETRIC)
Field No.	Office No. T-11956
	LOCALITY
State	HAWAII
General locality	Molokai
Locality	HALENA
	19 60 - 1967
P. A. STARK	CHIEF OF PARTY H. J. SEABORG , PHOTOGRAMMETRIC OFFICE
LIB	RARY & ARCHIVES
DATE	

USCOMM-DC 5087

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD T = 11956

	T	r - 11956		
PROJECT NO. (II):	PH- 6201			
FIELD OFFICE (II):	Honolulu, Hawaii		CHIEF OF PARTY UNIT CHIEF:	H. J. SEABORG L. F. VAN SCOY
PHOTOGRAMMETRIC OFFICE	PORTLAND, OREGON		OFFICER-IN-CHARG	P. A. Stark
AMENDMENT I: AMENDMENT II: AMENDMENT II: AMENDMENT III:				•
METHOD OF COMPILATION (III): Kelsh Instrument			
MANUSCRIPT SCALE (III):		STEREOSCO	PIC PLOTTING INST	RUMENT SCALE (III): 1:3000
	1:5000	PANTOGR	APH SCALE:	1 \$ 5000
DATE RECEIVED IN WASHING	STON OFFICE (IV):	DATE REPO	DRTED TO NAUTICAL	CHART BRANCH (IV):
APPLIED TO CHART NO.		DATE:	ı	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III):	OLD HAWAIFAN		Elevations shown as Elevations shown as	(III): ### AS FOLLOWS: X (25) refer to mean high water (5) refer to sounding datum or mean lower low water
REFERENCE STATION (III):	THERE IS NO CONTROL STAT	TION WITH	IN THE LIMITS	OF THIS MANUSCRIPT.
LAT.:	LONG.:		ADJUSTED UNADJUSTED	
PLANE COORDINATES (IV):		***	STATE	ZONE
	X =			
OR (IV) WASHINGTON OFFICE	WHETHER THE ITEM IS TO BE ENTER	RED BY (II) F	IELD PARTY, (III) PH	OTOGRAMMETRIC OFFICE,

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II):			DATE:
4	- F. VAI	N Scar	JANUARY - October 1962
	····		
MEAN HIGH WATER LOCATION (III) (ST	TATE DATE	AND METHOD OF LOCATION):	• •
	•	•	•
		, 1962 By FIELD INSPECTION.	
U	OMPILAT	ION BY KELSH INSTRUMENT.	• •
	•		• •
PROJECTION AND GRIDS RULED BY (IN	v):	•	DATE
; F	.Е.В.		12-12-62
PROJECTION AND GRIDS CHECKED BY	r (IV) :		DATE
. W	V. MABUL	A	12-12-62
CONTROL PLOTTED BY (III):			DATE
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CONTROL CHECKED BY (III):	•		DATE
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; K	(PI ME	YER	2-4-64
RADIAL PLOT OR STEREOSCOPIC CON	TROL EXTE	ENSION BY (III):	DATE
N	ONE REC	FIVED.	
STEREOSCOPIC INSTRUMENT COMPILA			DATE
STEREOSCOPIC INSTRUMENT COMPILA	4110N ((()):		
		L. L. GRAVES	2-12-64
		CONTOURS	DATE
		None	
MANUSCRIPT DELINEATED BY (III):			DATE
SMOOTH DRAFT: C	. C. HAI	RRIS	2-20-64
SCRIBING BY (III):			DATE
STICK-UP: C	. C. H	ARR16	4_3_64
PHOTOGRAMMETRIC OFFICE REVIEW			DATE
	C. HAI		2-14-64 6-9-64
REMARKS:	- LA MAR	77.10	U=0=07

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C&GS SINGLE LENS "W"

	РН	OTOGRAPHS (III)			
NUMBER	DATE	TIME	, SCALE	STAGE (OF TIDE
1 W 702 THRU 704	9-23-61	08:30	1:15,000	0.1! ABOVE	M.L.L.W.
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TIDE (III)

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SUBORDINATE STATION:	Kolo ·		-	1.3	2.0
SUBORDINATE STATION:					
WASHINGTON OFFICE REVIEW E	or Weo F. Bengnet Atlantic	Morine Center	DATE:	r. 197	٥
PROOF EDIT BY (IV):	7		DATE:		
NUMBER OF TRIANGULATION S	TATIONS SEARCHED FOR (II): 7	RECOVERED: 1	IDENTIFIE	D: O	
NUMBER OF BM(S) SEARCHED	FOR (II): NONE	RECOVERED:	IDENTIFIE	D	
NUMBER OF RECOVERABLE PH	OTO STATIONS ESTABLISHED (til):		ļ.— <u>. </u>		

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): NONE

REMARKS:

COMPACATION RECORD

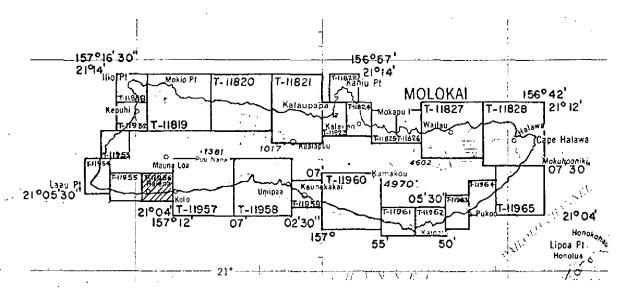
COMPLETION DATE REMARKS

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Final Review	Nov. 1970
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PROJECT PH-6201

SHORELINE MAPPING

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



Official Mileage for Cost Accounts

Sheet No.	Shoreline Lin. Mi.	Area Sq. Mi.	Sheet No.	Shoreline Lin. Mi.	Area Sq. M1.
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	332336536343333	33233653634333
			Total	98	98

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-11956

Shoreline survey T-11956 is one of twenty-five similar surveys in project PH-6201. These surveys cover the entire coast of Molokai. This survey covers a part of the south coast in the vicinity of Halena. See page 5 of the Descriptive Report for the area within the project.

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

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

Field edit of the manuscript was accomplished in conjunction with hydrography on boat sheet H-8969 (AR-10-3-67).

The compilation manuscript was a vinylite sheet 2 minutes in latitude by 2 minutes 30 seconds 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 November 1970. One cronaflex positive and a negative of the final manuscript 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 FIFED 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 Karakou 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 Kaumakakai. A small udor commerced to the shore by a long male is used to load and unload

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 permiss-

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Molokai VOR (MMK)
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.

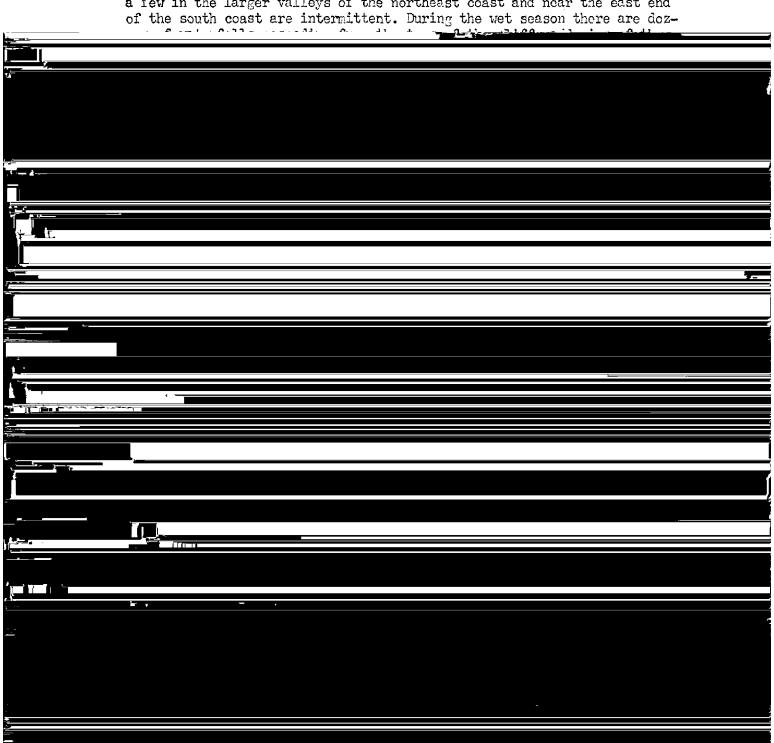
All tidal bench marks listed at Pukoo, Kamalo, Kaunakakai, and Kolo were searched for. A total of 18 bench marks were searched for. All marks were listed on Form 685 which was submitted to the Honolulu District Officer.

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



- (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 fishbonds. 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 fishbonds 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 seected 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.

(d) The geographic positions of the following list of aids to navigation was determined by the field party during the 1962 season.

Molokai Lighthouse

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
- 10. BOUNDARIES, MONUMENTS, AND LINES

Not applicable

11. OTHER CONTROL

No recoverable topographic stations were established.

In all areas where identifiable objects could be found photo hydro sites were selected. In some cases it will be necessary to locate a more suitable location for the hydrographic signals from the selected photo hydro sites.

12. OTHER INTERIOR FEATURES

All roads in the project area were classified on the field photographs in compliance with the project instructions.

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

-	Approved:	OCT 3 0 1962	Respectfully s	ulmitted:	
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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 60-W-2427 through 2430 but this was adequate since only three models were involved.

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

None

25. Photography

Photography was adequate as to coverage, overlap and definition.

Respectfully submitted,

Henry P. Eichert, Acting Chief, Aerotriangulation

Section

AHANUI 1925 (+03 0.0)

(00 +04) (-0.9 +2.5) strip 11 (+1.1 -1.3) (0.0 0.0) 906/W 695 STUP 10 (70 00 60W2#27 P. C. (+0.7 -0.7) (+0.1 -1.1) HIKAVHI 1962 WAIELL 2 1945 Str. 10 AAU POINT LIGHT 2AAU 1962 (-0.8 +1.5) (0.0 -0.4)

AEROTRIANGULATION SKETCH MOLOKAI ISLAND HAWAII

> 57810 //42 12 (485 -28) /4 (45.0 -6.6) 13 (-2.2 45.0) 15 (-2.5 42.2)

\$\lefts CONTROL USED IN ADJUSTMENT
\$\lefts CONTROL USED AS CHECK

O TIE POINTS

57812 9410 1 (-18 -9.3) (3 (-4.5 -2.9) 2 (-5.2 -2.1) 5 (-4.5 -2.9) 3 (-0.1 +0.1) 6 (-6.8 +0.1)

57 RIP 10 411 7 (+0.2 +41) 10 (-0.9 -0.6) 8 (40.4 +2.6) 11 (43.1 +2.8) 9 (42.6 +2.7) 15



DESCRIPTIVE REPORT CONTROL RECORD

FORM C&GS-1 (3-64) USCOMM-DC 6659-P64

MAP T- 11956 PROJECT NO.		scA	SCALE OF MAP 1:5000 SCAL	SCALE 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)
None				
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	DATE		CHECKED BY	DATE PATE

COMPILATION REPORT

MAP MANUSCRIPT T-11956

PROJECT 21044

ITEMS 31 THRU 34:

REFER TO THE COMPILATION REPORT FOR T-11952.

35. SHORELINE AND ALONGSHORE DETAILS:

DATA FURNISHED BY THE FIELD UNIT WAS ADEQUATE FOR THE COMPILA-TION OF THE MEAN HIGH WATER LINE. APPROXIMATE LIMITS OF A SHALLOW FORESHORE AREA WAS DELINEATED FROM OFFICE INTERPRETATION OF THE COLOR PHOTOGRAPHY. NO LOW WATER LINE HAS BEEN SHOWN.

36. OFFSHORE DETAILS:

NONE.

37. LANDMARKS AND AIDS:

ONE LANDMARK SHOWN ON THIS MANUSCRIPT HAS BEEN RECOMMENDED FOR CHARTING. FORM 567 IS SUBMITTED:

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Satisfactory junctions were made with T=11955 to the west and with T=11957 to the east. There is no contemporary survey to the north. The Pagific Ocean is on the south.

40. HORIZONTAL AND VERTICAL ACCURACY:

46. COMPARISON WITH EXISTING MAPS:

Comparison was made with the U.S.G.S. 7 minute | Lio 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° 01', 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

N/B

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6201 (Molokai Island, Hawaii)

T-11956

Halena (village)

Halena Gulch

Kahinawai Gulch

Oneohilo Gulch

Pacific Ocean

Molokai

Approved by:

A. Joseph Wraight Chief Geographer Prepared by:

Frank W. Pickett

Cartographic Technician

JB.

49. Notes for the Hydrographer:

None.

USCOMM-DC 18252-P61

C&G5 FORM 1002			U	S. DEPARTMENT OF COMMERCE
(13-13-61)	PHO	TOGRAMMET	RIC OFFICE REVIEW	COAST AND GEODETIC BURYET
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	1			
CONTROL STATIONS	<u> </u>		<u> </u>	
5. HORIZONTAL CONTROL ST. THIRD-ORDER OR HIGHER A	ATIONS OF	6. RECOVERA	BLE HORIZONTAL STATIONS	7. PHOTO HYDRO STATIONS
	CCURACY	OF LESS TH	IAN THIRD-ORDER ACCURACY	Not Applicable
None		l		///
8. BENCH MARKS	9. PLOTTING	OF SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	TI. DETAIL POINTS
None	No	sne	None	None
	<u> </u>		•	
ALONGSHORE AREAS (Nautical 12. SHORELINE	Chart Data)	PINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
IZI SHOKE LINE	1 -		144 NOCKS, SHOKES, ETC.	J
	Nov	ne.		None
16. AIDS TO NAVIGATION	17. LANDMAR	(S	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
None			PHISICAL PENTURES	COLTONAL PERIONES
TONE				
PHYSICAL FEATURES				
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS
				Not Applicable
23 STEDEOSCODIC	24 CONTONO	S IN GENERAL	25. SPOT ELEVATIONS	-
23. STEREOSCOPIC INSTRUMENT CONTOURS				26. OTHER PHYSICAL FEATURES
Not Applicable	Not Appl	icable	None.	
CULTURAL FEATURES	Ł.,		<u> </u>	_
27. RO ADS	28. BUILDING	S .	29. RAILROADS	30. OTHER CULTURAL
			None	FEATURES
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BOUNDARIES	-		150	
31. BOUNDARY LINES Non ←			32. PUBLIC LAND LINES	۵
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MISCELLANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTION		35. LEGIBILITY OF THE
/			·	MANUSCRIPT
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36. DISCREPANCY OVERLAY	37. DESCRIPT	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
None				
40. REVIEWER	<u> </u>	·····	<u> </u>	
	_		SUPERVISOR, REVIEW SECTION	
C.C. Harris	?		Leo F. Be	uant
41. REMARKS (See attached she			1 From Per	ighe!
FIELD COMPLETION ADDITION		TIONS TO THE M	IANUSCRIP T	
42. Additions and corrections	furnished by th	ne field complet		to the manuscript. The manu-
script is now complete ex-	ept as noted un	der item 43.	·	•
COMPILER			SUPERVISOR	•
J.L. Hai	ui c		Leo F. Bey	as t
43. REMARKS	* / 3	<u> </u>	1 real peu	91181
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Field Edit Report To Accompany T 11956

USC&GSS MCARTHUR

Ronald L. Newsom CDR, USESSA Commanding Officer

51 METHODS

Field edit on manuscript T 11956 was done in conjunction with hydrographyon boatsheet AR 10-3-67, H 8969. The shoreline was inspected from Launches and Skiffs. The MLLW was impossible to determine due to extensive offshore reefs and coral heads.

Field edit information was shown on three (3) field contact prints 61W701, 61W702 and 61W703 in violet ink and indexed on the field edit ozalid in violet ink. Some field edit information was shown directly on the discrepancy print, an ozlaid copy of T 11956, in violet ink.

52 ADEQUACY OF COMPILATION

Manuscript T 11956 was completely adequate for a hydrographic survey.

54 RECOMMENDATIONS

None

56 MISCELLANEOUS

The breaker line delineated on boatsheet AR 10-3-67 H 8969 closely follows the breakers shown on the photos. This command was informed of the wreckage of a Marine plane lost in the early 1940's in the general vicinity of Lat. 21°05'25", Long. 157°14'20". None of it is exposed above water. This wreck was not verified since it lies in an extensive shallow coral area which is almost impossible to navigate safely due to large swells.

REVIEW REPORT T-11956

SHORELINE

NOVEMBER 3, 1970

61. GENERAL STATEMENT:

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with copies of survey No. 3526, 1:20,000 scale, dated 1915 and 4116, 1:5,000 scale dated March 1925. The passage of time has made these surveys obsolete. They are superseded by T-11956 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

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

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with copies of boat sheet H-8969 (AR-10-3-67) and smooth sheet H-8977 (AR-5-2-68). The shoreline of the surveys is in good agreement.

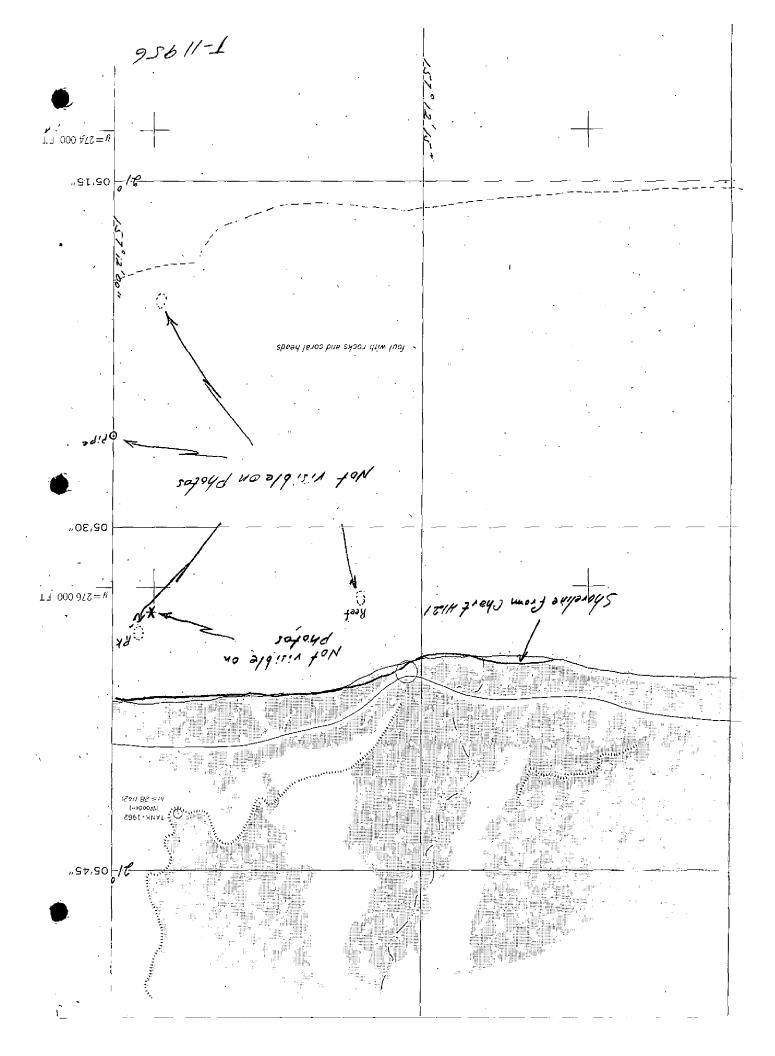
A rock shown on H-8977 at latitude 21^o05'34" longitude 157^o12'02" is not visible on the photographs of the area.

An area delineated as a coral reef on H-8977 in the area of latitude 21005'20" longitude 157012'10" appears to be completely submerged on the photographs.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with charts 4120, 3rd edition, October 14, 1968 and 4121, 6th edition, September 30, 1968. The pipe shown on chart 4121 at latitude 21°05'26" longitude 157°12'00" and the rocks westward of that longitude are not visible on photographs of the area. These and the difference in the shoreline between chart 4121 and this survey have been indicated on the comparison print in red.

4	66. ADEOUACY OF RESULTS AND FUTURE SURVEYS:	
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U.S. DEPARTMENT OF COMMERCE JRVEY COAST AND GEODET

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

STRIKE OUT TWO

PORTLAND, OREGON

ecommend that the following objects which have (framewirgs) been inspected from seaward to determine their value as landmarks be i on (distributions) the charts indicated. BE CHARTED SEKKINGEKK MERREKER

1964

J. L. HARRIS e positions given have been checked after listing by

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LATITUDE	POSITION		,			THAI	
		LONGITUDE *			DATE OF	BE CH	CHARTS
DESCRIPTION SIGNAL O / D.M. METERS O	D. M. METERS	D.F. METCRS	DATUM	SCRVEY No.	LOCATION	OFFEN	
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USCOMM-DC 16234-P61 s form shall 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 chatted is and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be ted for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.