11821

FORM **C&GS-504**

U.S. DEPARTMENT OF COMMERCE Environmental science services administration coast and geodetic survey

DESCRIPTIVE REPORT

· · · · · · · · · · · · · · · · · · ·
Type of Survey Shoreline (Photogrammetric)
Field No. Office No. T-11821
LOCALITY
State HAWAII
General locality MOLOKAI
Locality KALUANUI
19 605-1968
CHIEF OF PARTY
Allen L. Powell, Director, AMC
LIBRARY & ARCHIVES
DATE

USCOMM-DC 37022-P66

		U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY
	DESCRIPTIVE REPO	
	Т	-11821
(OJECT NO. (II):		
PH-6201		·
FIELD OFFICE (II):		CHIEF OF PARTY
Honolulu		H. J. Seaborg
PHOTOGRAMMETRIC OFFICE	115):	OFFICER-IN-CHARGE
Atlantic Marine (Center	Allen L. Powell, Director, AMC
INSTRUCTIONS DATED (II) (III)): on	May 31, 1962
Office Compilation	Amendment I	December 14. 1962
*		
<u> </u>		
	,	

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II):		DATE:	
L. F. Van Scoy	August 1962		
MEAN HIGH WATER LOCATION (III) (STATE DATE	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):		DATE	
Portland Photogrammetric Offi	ce	1965	
CONTROL CHECKED BY (III):		DATE	
Portland Photogrammetric Office		1965	
		DATE	
RADIAL PLOT OR STEREOSCOPIC CONTROL EXT	ENSION BY (III):		
H. P. Eichert		December 1964	
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE	
Wild B-8	A. L. Shands	July 24, 1967	
	CONTOURS	DATE	
	Inapplicable		
MANUSCRIPT DELINEATED BY (HI):		DATE	
A. L. Shands		September 16, 1967	
SCRIBING BY (III):		DATE	
B. Wilson		Oct 15,1969	
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation C. H. Bishop Field Edit R. E. Smith Scribing & Stick-up R. E.		oct. 17, 1969 Dec. 5, 1969	
REMARKS:			
Field Edit by: R. L. Newson	ı	December 1968	

FORM C&GS-181c (3-66) U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

ERA (KIND OR SOURCE) (III):

Wild RC-8 "W"

PHOTOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2171 thru 2173	2 Oct.1960	0849	1:25160	0.8 ft. above MHW
		TIDE (III)	Predicted	Diurn

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	II ^{**}
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T-11821

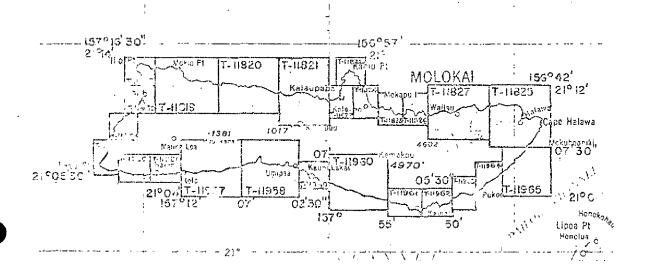
COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	August 1967	Superseded
Field edit applied compilation complete	July 1969	
		·

PRO 37 PH-0301

SHORELINE

MAPPING

NOLOKAI 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 11825 11827 11827	466461 MMAG	46643133369.	11952 11953 11954 11955 11956 11957 11959 11960 11961 11962 11963 11964 11965	332 336 536 34 333	MMR MM6 5M6 M≠ MMM
			Total	98	93

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-11821

Shoreline survey T-11821 is one of twenty-five similar surveys in Project PH-6201. The surveys in this project cover the entire coast of Molokai Island, Hawaii. This survey covers that part of the north coast extending from Halo eastward to Auahua.

Field work preceding compilation consisted of recovery and identification of horizontal control, field and shoreline inspection, identification of landmarks for charts, and selection of photo-hydro signal sites.

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

The manuscript was a vinylite sheet 5 minutes in latitude by 4 minutes in longitude. After application of field edit, which was accomplished in December 1968, the survey was scribed, reproduced on cronaflex, and stick-up applied. Final review was in the Atlantic Marine Center in August 1970. One cronaflex and a negative of the final reviewed survey are forwarded for record and registry.

FIELD INSPECTION REPORT

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

Project FH-6201

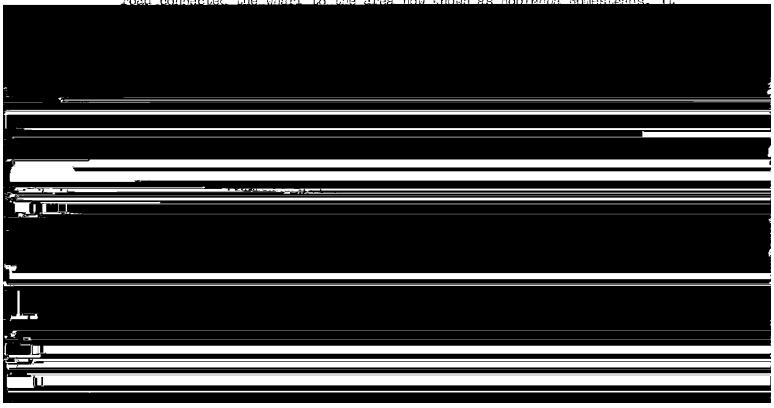
January - October 1962

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 seldom varies more than 10 degrees except at the higher elevations. The yearly rainfall varies from about 7 inches around Kaumakakai 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



Located on the Makanalua Peninsula is the small settlement of Kalau-The settlement is maintained by the State of Havaii. Department of

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

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 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 vaterfalls 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 ferms 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. SHORETLINE AND ALONGSHORE FEATURES

(a) The mean high water 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) 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. Nost 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. LAMDMARKS 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

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

Molokai, Airport Beacon Waiahevaheva, 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

Hio Pt., Goast Guard Loran Mast

Kaunakakai Harbor, Entrance Range, Front Light

Kaumakakai 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

OCT 3 0 1962

Capt., C & G S

Agegoved':

Honolulu District Officer

· Respectfully sugmitted:

Leonard F. Van Scoy

Supervisory Survey Technican

Unit Chief, C & G S

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

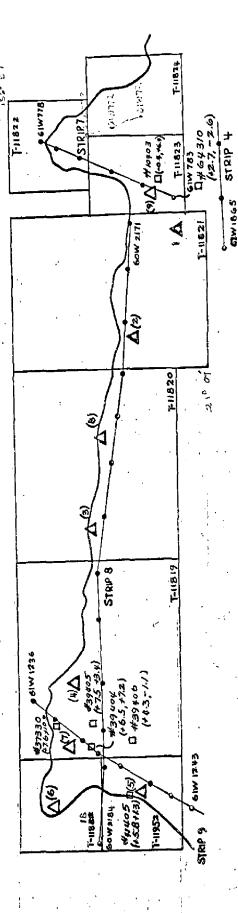
None

25. Photography

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

Respectfully submitted,

Henry P. Eichert, Acting Chief, Aerotriangulation Section



AEROTRIANGULATION SKETCH MOLOKAI ISLAND, HAWAII PROJECT 21044

LEGEND

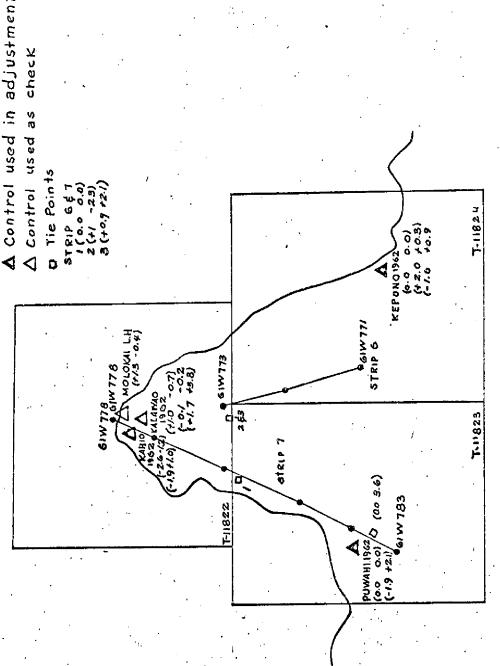
USED IN ADJUSTMENT CONTROL

USED AS CHECK CONTROL

POINTS ΤE

(1) HAHAEULA Z, 1962 Sub Pt. A (103, 409) Sub Pt. B (12.8,-11)
(2) POHAK UNUI, 1888 (10.1,-1.2) Sub Pt. A(-2.8, 40.8) Sub Pt. B (-10.-3.2)
(3) MOOMOMI, 1962 Sub Pt A(-10,2.7) Sub Pt B (-20, -5.3)
(4) LAINA (KAA) 19.26 Sub Pt A(0.0, 4.9)
(5) PUU O KAIKA, 1915 Sub PT A(+12,-2.1) Sub Pt B (-2,40.t)
(6) SAND 1950 (Sub Pt A(+2.6,115)) Sub Pt (4.20,10.8)
(7) KAEO 19.26 Sub Pt A(+2.8,115) Sub Pt (0.0, 10.8)
(8) PUU KAPELE, 1888 Sub Pt A(+2.9,1.2) Sub Pt (10,-5.0)
(9) PUWAHI 1962 Sub Pt A(+0.1,20.0)

sob. Pls. for SAND1950 were considered poor at the time of plate measurement



TEGEND

AEROTRIANGULATION SKETCH MOLOKAI ISLAND HAWAII PROJECT 21044

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



MAP T- 11821

DESCRIPTIVE REPORT CONTROL RECORD

SCALE FACTOR SCALE OF MAP 1:10,000 PH-6201 PROJECT NO.

DISTANCE FROM GRID OR PROJECTION LINE IN METERS ($IFt. = 3048006\ meter)$ N.A. 1927 - DATUM 7 646.00) 533.30) 7 (3189.0) (48.10 (0793.2)2 (1310.1) (1502.0)1303. <u>7</u> J 354.00 466.70 4 207.8 1 811.0 ωļ 420.9 343.2 364.2 DATE 427. M 0 7 7 / 7 11.161" 14.828" 7 14.588 11.842 21.62 38.16 24.51 207.8 811.0 40.07 43.11 47.16 43.09 58.11 466.70 354.00 160 031 031 384 **1** 60 301 CHECKED BY 60 00 10 10 02 10 00 디 1570 11570 210 21° 310 11 H 157 157 368 157 157 21 21 27 2 × > 굣 ۲, lawaiin DATUM 01dF Ξ **:** \$ = **=** E SOURCE OF INFORMATION GP Page 107 (INDEX) 113 W. O. IBM Form 164 Form 164 72 72 72 Page GP Page **GP** Page **GP** Page ÷ DATE GЪ KAULAPUU AERO BEACON 2, 1962 STATION RED LIGHT 1962 POHAKUNUI 1962 1885 1885 PUU LUA 1885 MIDDLE HILL PUU O KAMAO (HGS) 1885 KAULUWAI OLELEUWE HAHAEULA COMPUTED BY 3

11

9/20/67

CHB

COMPILATION REPORT Map Manuscript T-11821 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.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are not applicable.

The drainage from Kapale Gulch and Mimino Gulch was compiled from office stereo interpretation. This drainage pattern could not be traced to the ocean because of much deep shadow.

35. SHORELINE AND ALONGSHORE FEATURES

Field inspection was adequate for the delineation of the mean high water line. Foul limits, bluff lines, and rocks for which elevations are not shown are from office interpretation of the photographs.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

None. One Aeronautical Aid is within this survey. It is KAULAPUU AERO BEACON, RED LIGHT 1962. Form 567 is herewith submitted.

40. HORIZONTAL ACCURACY:

No Statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison was made with U.S.G.S. Quadrangle KAUNAKAKI, HAWAII, Scale 1:24,000, dated 1952.

47. COMPARISON WITH NAUTICAL CHARTS:

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

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted: Arnold L. Shand

Arnold L. Shands

Cartographic Technician

2 November 1967

Approved:

Allen L. Poucell
Allen L. Powell, RADM, USESSA

Director, AMC

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6201

T-11821

AUAHUA

HALO

HAWAII (title)

KALUANUI

KAPALE GULCH

KAPUAHIAPELE

KUKUIOKANALOA

MIMINO GULCH

MOLOKAI

PACIFIC OCEAN

POHAKUNUI

Approved by:

A. J. Wraight

Chief Geographer

Prepared by:

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 still exist:

Point	Description		
2101	Lone clump of low brush		
2102	Large bush		
2103	Large lone bush		
2104	Clump of brush		

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FORM C&GS-1002			U	S. DEPARTMENT OF COMMERCE.
(4-66)	PHO	TOGRAMMET	RIC OFFICE REVIEW	COAST AND GEODETIC SURVEY
			11821	
£		<u> </u>		
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
СНВ	СНВ		СНВ	СНВ
CONTROL STATIONS			.4	
			BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
THIRD-ORDER OR HIGHER	CCURACY	(Topographic	c stationa)	
CHB			χ	X
8. BENCH MARKS	9. PLOTTING OF	OF SEXTANT	10. PHOTOGRAMMETRIC	11. DETAIL POINTS
Х	χχ		Bridge - W. O.	Wild B-8
ALONGSHORE AREAS (Nautical				
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
СНВ	х		CHB	х
16. AIDS TO NAVIGATION	17. LANDMARK	S	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
ACR	х		СНВ	СНВ
PHYSICAL FEATURES	· • · · · · · · · · · · · · · · · · · ·			
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS
х			χ	χ
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
х	х		X	x
CULTURAL FEATURES				
27. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES
СНВ	CH	В	χ	х
BOUNDARIES			<u> </u>	
31. BOUNDARY LINES			32. PUBLIC LAND LINES	
X			X	
MISCELLANEOUS		r = .		
33. GEOGRAPHIC NAMES		34. JUNCTION	5	35. LEGIBILITY OF THE MANUSCRIPT
CHB			CHB .	СНВ
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
χ	СН	В	СНВ	СНВ
40. REVIEWER Charles HE	Rishor		SUPERVISOR, REVIEW SECTION	Fauch. In.
	C. H. Bishop 9/20/67			(auch 9/.
41. REMARKS (See attached shee	o t)			
FIELD COMPLETION ADDITION				
42. Additions and corrections script is now complete exc	furnished by the cept as noted und	e field complet der item 43.	ion survey have been applied t	o the manuscript. The manu-
COMPILER	7	7/7/60	SUPERVISOR DALL	T Rayalan
Albert C. Rauck, Rev. by: R. E.		7/3/69 1 0/17/69	Albert C. Rauck	Mauch. Jr.
43. REMARKS ST. C. P.	'			
Field Edit appli	ed from:	Field Edi	t Ozalid & Field Ed	lit Photo.

No. 60-W-2172

Field Edit Report To Accompany T 11821

USC&GSS MCARTHUR

Ronald L. Newsom CDR, USESSA Commanding Officer

51 METHODS

Manuscript T 11821 was field edited by personnel aboard the USC&GSS McARTHUR in conjunction with the hydrography on boatsheets AR 20-1-68 (H 8981) and AR 10-2-68 (H 8975). Shoreline area inspection and all other acquisition of field edit material was accomplished from Launch AR-1. Heavy swell and the resulting surf along with a steep bottom contour made delineation of the MLLW line impossible. Additions and corrections to the manuscript have been noted on the single field edit ozalid that was provided for T 11821 and then cross referenced and noted in violet ink on photo number 60W2172. No deletions on the field edit ozalid were necessary

52 ADEQUACY OF COMPILATION

Manuscript T 11821 is complete and adequate for use in conjunction with this hydrographic survey. The area of this manuscript from the bluff lines seaward was field edited.

54 RECOMMENDATIONS

None

REVIEW REPORT T-11821

SHORELINE

AUGUST 4, 1970

61. GENERAL STATEMENT

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS KAUNAKAKAI, HAWAII, 9.5 by 7.5 minute quadrangle, 1:24,000 scale, edition of 1952. There are no rocks or offshore features shown on the USGS quadrangle. The shoreline of the two surveys is in only fair agreement. The difference has been shown on the comparison print in brown.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets H-8975 (AR-10-2-68 sheet "ee") and H-8981 (AR-20-1-68). None of the rocks close inshore to the mean high water line are shown on these boat sheets.

The shoreline of H-8975 (AR-10-2-68) is in good agreement with that of T-11821. The shoreline for H-8981 (AR-20-1-68) was evidently obtained from a reduction of T-11821. Two small discrepancies in the shoreline were noted between longitudes 157°02'30" and 157°03'30". These have been noted on the comparison print in purple.

COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with Chart 4120, 3rd edition, dated October 14, 1968. The shoreline of the chart is generalized and shows no rocks in the area of this survey.

ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

Cartographer

Approved by:

all J. Poull

Allen L. Powell, RADM, USESSA Director, Atlantic Marine Center

Approved by:

Chief, Photogrammetric Branchy Chief, Photogrammetry Division

		26
210//32011		7-11821
NOTE: "The photogrammetric location and delineation of features offshore from the mean high-water line on this survey may not be complete or final. The contemporary reviewed hydrographic survey of the area where available, should be consulted for the final delineation." [IDE ID brown from USGS QUadrangle]	Note: No rocksin this area Bre shown on the boatsheet	. 00, 10, 25/
Shorell	ple from 16the: No.	198,20,251

CHARTS clusive, and Fig. 79. Positions of charted The data should be mine their value as landmarks be OTTENORE CHART THAND BROHEN Dec. 8 d and new positions. LOCATION 1962 Director METHOD OF LOCATION AND BURVEY No. Triang T11821