

11992

Diag. Cht. No. 4116.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC)

Field No. Ph-6012 Office No. T-11992

LOCALITY

State Hawaii

General locality Maui Island

Locality Wailua

1960 - 1963

CHIEF OF PARTY

H. J. Seaborg, Honolulu District Office
W. E. Randall, Baltimore District Office

LIBRARY & ARCHIVES

DATE 1967

USCOMM-DC 5087

11992

104 - 703

DESCRIPTIVE REPORT - DATA RECORD

L-11992

PROJECT NO. (II):

PH 6012

FIELD OFFICE (II):

Honolulu, Hawaii

CHIEF OF PARTY

H. J. Seaborg

PHOTOGRAMMETRIC OFFICE (III):

Baltimore, Maryland

OFFICER-IN-CHARGE

W. E. Randall

INSTRUCTIONS DATED (II) (III):

14 November 1960
28 November 1960
13 June 1961
16 January 1962

METHOD OF COMPILATION (III):

Kelsh Plotter

MANUSCRIPT SCALE (III):

1:5,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:5,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):

Old Hawaiian

VERTICAL DATUM (III): MSL

MEAN SEA LEVEL EXCEPT AS FOLLOWS:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

REFERENCE STATION (III):

KAPAULA, 1950

LAT.:

20° 48' 51.334"

LONG.:

156° 07' 30.901"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 174,980.79

X = 684,908.60

Hawaii

2

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE,
OR (IV) WASHINGTON OFFICE.

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (III): J. C. Lajoie		DATE: Jan. 1962
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Mean high water line located by Kelsh Plotter from photography of October 1960 supplemented by 1962 panchromatic and color photography.		
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree		DATE 4-3-62
PROJECTION AND GRIDS CHECKED BY (IV): A. E. Roundtree		DATE 4-4-62
CONTROL PLOTTED BY (III): H. R. Rudolph		DATE 5-30-62
CONTROL CHECKED BY (III): L. O. Neterer		DATE 5-30-62
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): Aerotriangulation - Washington Office		DATE 1962
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY E. L. Williams	DATE 5-62
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): C. A. Lipscomb		DATE 6-64
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): D. M. Brant		DATE 6-64
REMARKS: FIELD EDIT USC & GSS PATHFINDER 1963		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"W" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
61 W 843	24 Sept. 1961	0906	1:15,000	0.2 ft. above MLLW
60 W 2953	15 Oct. 1960	0925	1:25,000	1.8 " " "
60 W 2512	9 Oct. 1960	0956	1:25,000	1.4 " " "
62 W(C) 2317	26 Jan. 1962	1002	1:10,000	0.9 " " "
Tides computed from Predicted Tide Tables.				

TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Honolulu, Hawaii		1.2	1.9
SUBORDINATE STATION: Hana, Hawaii		1.8	2.5
SUBORDINATE STATION:			

FINAL
WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, Norfolk Regional Office

DATE: Nov. 1965

PROOF EDIT BY (IV):

DATE: Dec. 1965

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 1

RECOVERED:
1IDENTIFIED:
0

NUMBER OF BM(S) SEARCHED FOR (II): 0

RECOVERED:
0IDENTIFIED
02

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

3

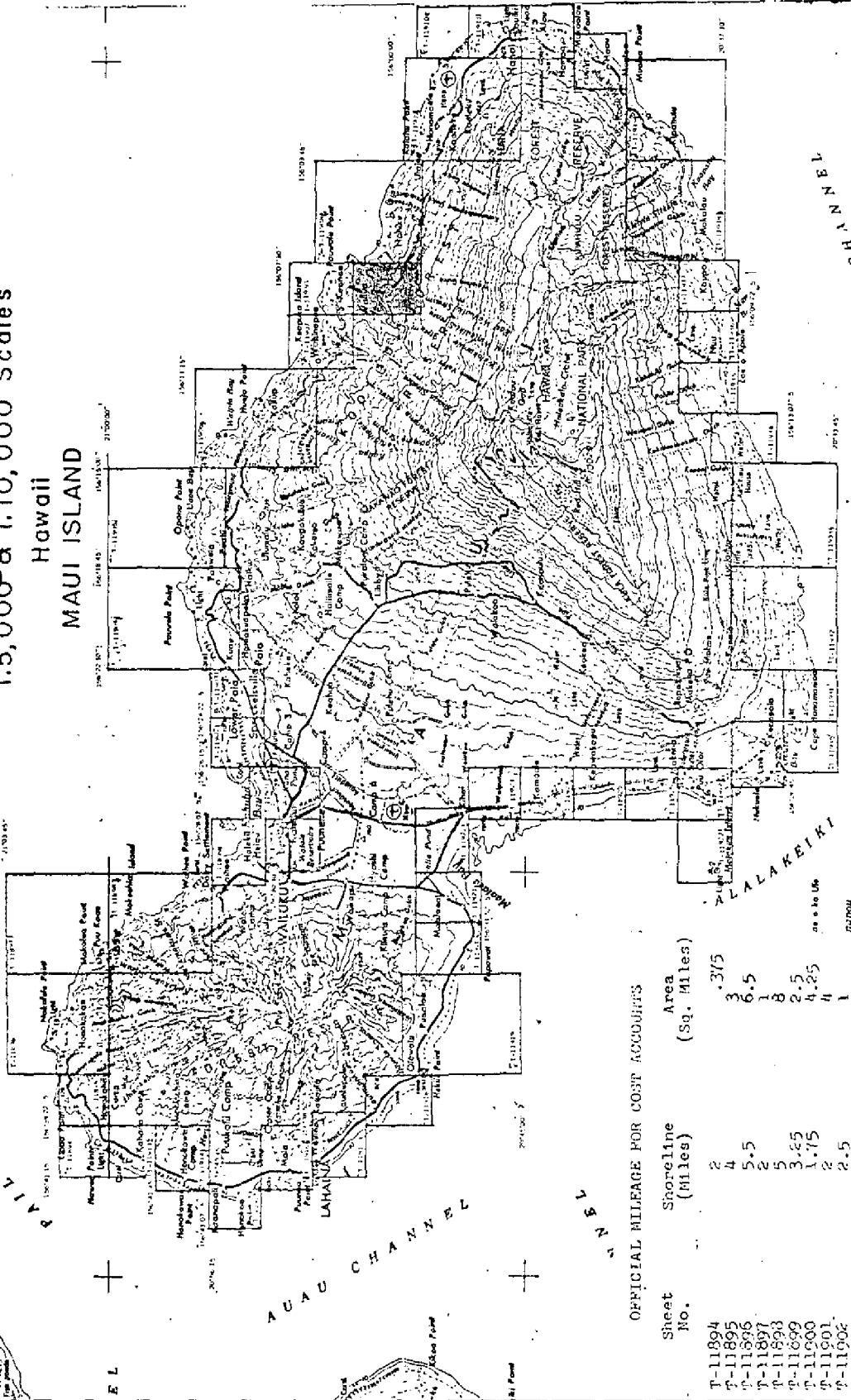
REMARKS:

4/

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	January 1962	superseded
Final Compilation	June 1964	

Planimetric Mapping 1:5,000 & 1:10,000 Scales

Hawaii MAUI ISLAND



OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Shoreline (Miles)	Area (Sq. Miles)
T-11894	2	3.75
T-11895	4	3
T-11896	5.5	6.5
T-11897	2	1
T-11898	5	8
T-11899	3.65	2.5
T-11900	1.75	4.25
T-11901	2	4
T-11902	2.5	1
T-11903	2	2
T-11904	5	4
T-11905	4.5	6
T-11906	6.5	10
T-11907	7	7.8
T-11908	5	6
T-11909	4.7	16
T-11910	4.5	2.25
T-11911	2.7	2
T-11912	2.7	3
T-11913	2.2	3
T-11914	2.5	4.5
T-11915	2.5	2.2
T-11916	2.5	2.2
T-11917	2.5	2.6
T-11918	3	2.6
T-11919	4	6

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Shoreline (Miles)	Area (Sq. Miles)
T-11920	3	3
T-11921	2	3
T-11922	2.5	3.5
T-11923	2.5	1.5
T-11924	2.5	1
T-11925	1	1.04
T-11926	3	1.5
T-11927	4.5	3
T-11928	1.5	2.5
T-11929	2.5	2.5
T-11930	2.5	2.5
T-11931	2.5	1.5
T-11932	4.5	12
T-11933	5	8
T-11934	2.7	3
T-11935	2.5	4
T-11936	5	4
T-11937	5	4
T-11938	5	6
T-11939	4.5	3
T-11940	2.5	3
T-11941	2.5	6

CHANNEL

LAKE KEI

AUAI CHANNEL

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11992

Shoreline manuscript T-11992 is one of forty-nine similar maps in project PH-6012 and covers a part of the coast of Maui Island. This was a Kelsh project in advance of hydrographic surveys in the area. Field work preceding compilation consisted of recovery and identification of horizontal control and field inspection. The Kelsh compilation was at 1:5,000 scale using 1:25,000 scale photography taken in October 1960. A cronaflex copy showing shoreline, shoreline features and pass points was furnished for preparation of the boat sheet. Ratio prints of the 1:15,000 scale photography obtained in September 1961 were furnished for hydro support. The compilation manuscript was vinylite sheet 2 minutes 22.5 seconds in latitude by 1 minute 52.5 seconds in longitude from which the smooth map was reproduced on cronaflex. One cronar positive and one cronar negative are provided for record and registry.

FIELD INSPECTION REPORT
T-11992

Please refer to the Field Inspection Report for Maui Island,
Hawaii bound with the Descriptive Report for T-11991.

COMPILATION REPORT T-11992

For additional data pertaining to this survey please refer to the Field Inspection Report bound with T-11991 and the Photogrammetric Plot Report bound with T-11907.

Items 31 thru 36

Please refer to the Compilation Report bound with T-11896

37. LANDMARKS AND AIDS

There are no landmarks, aids to navigation, or aeronautical aids within the compilation limits.

38. CONTROL FOR FUTURE SURVEYS

No control for future surveys was established.

39. JUNCTIONS

Satisfactory junctions were made with T-11991 on the north; with T-11907 on the west and with T-11908 on the east. There is no contemporary survey on the south.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. Keanae, Hawaii quadrangle, 1:24,000 scale, edition of 1957.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 4116, 1:250,000 scale, 12th edition, August 17, 1964.

10.

ITEMS TO BE APPLIED TO CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

Joseph Steinberg
For: Donald M. Brant
Carto. (Photo.)

Approved:

J. Bull
J. Bull

Capt. C&GS

Norfolk Regional Officer

FINAL NAME SHEET
PERMANENT FILE COPY
~~RETURN TO GEOGRAPHIC NAMES SECTION~~
~~HT. NO. 6614~~

48. Geographic Names List:

The Geographic names listed below were furnished by the Washington Office on U.S.G.S. Keanae, Hawaii 7½ minute quadrangle, 1:24,000 scale, edition of 1957.

Aluea Rocks
East Wailuaiki Stream
Wailua
Wailuaiki Bay
Wailuanui Bay
Wailuanui Stream
Waiokamilo Stream
Waiokilo Falls
West Wailuaiki Stream
Pacific Ocean

ALL NAMES APPROVED BY
GEOGRAPHIC NAMES SECTION
UNLESS OTHERWISE MARKED.

A. J. Wright

Chief, Geographic Branch

PH-6012
T-11991 and T-11992

49. NOTES TO HYDROGRAPHER

Incomplete copies of the above surveys have been furnished for photo hydro support. Included is a set of ratio photos with selected shoreline pass points there on. Hydrographic signal sites selected by the field inspection party have been located and shown by name and number. A listing of these follows:

Signal No.	Description	Photo Number
T-11991		
9101	High point of island	2512
9102	Flag on point	2512
9103	Flag on lauhala tree	2512
9104	Flag on ironwood tree	2512
9105	Church steeple	2512
9106	Flag on small tree	2512
9107	Northeast corner of landing	2512

T-11992		
9201	End of rock point	2513
9202	Flag on lauhala tree	2513
9203	Catholic church steeple	2513

FORM 182 (8-61)		PHOTOGRAMMETRIC OFFICE REVIEW		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
50		T-11992			
1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE		
L.F.B.	L.F.B.	L.F.B.	L.F.B.		
CONTROL STATIONS	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS)		
	L.F.B.		None		
	7. PHOTO HYDRO STATIONS	8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	
	None	None	None	L.F.B.	
ALONGSHORE AREAS (Nautical Chart Data)	11. DETAIL POINTS				
	L.F.B.				
	12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES	
	L.F.B.	L.F.B.	L.F.B.	None	
	16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES		
None	None	L.F.B.			
PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES				
	L.F.B.				
	20. WATER FEATURES		21. NATURAL GROUND COVER		
	L.F.B.		L.F.B.		
	22. PLANETABLE CONTOURS		23. STEREOSCOPIC INSTRUMENT CONTOURS		
	None		None		
CULTURAL FEATURES	24. CONTOURS IN GENERAL		25. SPOT ELEVATIONS		
	None		None		
	26. OTHER PHYSICAL FEATURES				
BOUNDARIES	27. ROADS		28. BUILDINGS		29. RAILROADS
	L.F.B.		L.F.B.		None
MISCEL- LANEOUS	30. OTHER CULTURAL FEATURES				
	L.F.B.				
	31. BOUNDARY LINES			32. PUBLIC LAND LINES	
	None			None	
33. GEOGRAPHIC NAMES	L.F.B.			34. JUNCTIONS	
	L.F.B.			L.F.B.	
	35. LEGIBILITY OF THE MANUSCRIPT			36. DISCREPANCY OVERLAY	
	L.F.B.			L.F.B.	
	37. DESCRIPTIVE REPORT			L.F.B.	
38. FIELD INSPECTION PHOTOGRAPHS	L.F.B.			39. FORMS	
	L.F.B.			L.F.B.	
	SIGNATURE OF REVIEWER			SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT	
Leo F. Benguet			Joseph Steinberg		
40. FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT-Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in remarks on reverse side.					
SIGNATURE OF COMPILER			SIGNATURE OF SUPERVISOR		
Leo F. Benguet for E.L. Williams			Joseph Steinberg		

FIELD EDIT REPORT
T-11992

No formal Field Edit Report was received. Please refer to the two following Memorandums concerning Field Edit of this manuscript.

Memorandum

244 11 14

DATE: 8 July 1963

TO : The Director
Coast and Geodetic Survey
U.S. Department of Commerce
Washington 25, D.C.

FROM : Commanding Officer
USCGC Pathfinder
705 Federal Office Building
Seattle, Washington

SUBJECT: Field Edit Report - CFR-419

During the first half of the 1963 field season, Pathfinder personnel field edited the manuscripts listed below for accuracy and completeness. All recommended changes have been noted on the blackline impressions in red and green ink. In general, the manuscripts were found to be very reliable with only minor discrepancies being noted.

Four manuscripts with noted changes are being forwarded to the Washington Office on July 9. These manuscripts with no recommended changes have been noted below. The remaining manuscripts will be forwarded as soon as we have had an opportunity to compare them with the best sheets now in Washington for photographing.

E-11905	Edited - No changes
E-11906	Edited - Will be forwarded later
E-11907	Edited - Will be forwarded later
E-11908	Edited - Will be forwarded later
E-11909	Edited - Will be forwarded later
E-11910	Edited - Will be forwarded later
E-11911	Edited - Will be forwarded later
E-11912	Forwarded 9 July
E-11913	Edited - No recommended changes
E-11914	Edited - No recommended changes
E-11915	Edited - No recommended changes
E-11916	Forwarded 9 July
E-11917	Forwarded 9 July
E-11918	Forwarded 9 July
E-11919	Edited - Will be forwarded later
E-11920	Edited - Will be forwarded later

It is requested that these manuscripts be returned to the Ship as soon as is practical as they will be needed for smooth plotting.

H. J. Seaborg
H. J. Seaborg
Captain, USCGC

UNITED STATES GOVERNMENT

15.
U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

Memorandum

10/1/64
C 6314

TO : Chief, Photogrammetry Division

DATE: January 24, 1964.

C 6314/w

FROM : Commanding Office
USCGCROSS PATHFINDER
705 Federal Office Bldg.
Seattle 4, Washington 98104

SUBJECT: Field Edit data, Project 2103⁴ (Ph-6012), Maui Island,
Hawaii

Manuscripts T-II907 and T-II991 were corrected and sent 1/9/64 with transmittal letter PATH I-64. Manuscripts T-II906, T-II908 through T-II911 and T-II992 are being sent. Shoreline revision was necessary on T-II909 and T-II908 only.

Replying to 6314/in

for *S.L. Hollis*
H. J. Seaborg Capt. USCGCS
Ship PATHFINDER
Seattle, Washington

Joe

YOU WILL NOT RECEIVE ANY NOTIFICATION
OTHER THAN THIS LETTER RE FIELD EDIT OF
MANUSCRIPTS WITH NO CHANGES NOTED. THE
~~THEY~~ ~~(T-II909)~~ PROPERLYX COPIES THAT WERE

TRANSMITTED HERE WITH NO CHANGES
SENT BACK TO THE SHIP (T-II908, T-II911, T-II992)
THEY ARE IN THE RECORDS

OK
1/31/64

16.

REVIEW REPORT T-11992
SHORELINE

61. GENERAL STATEMENT

See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A visual comparison was made with a copy of Registered Planetable Survey 3274, 1:20,000 scale dated March 30, 1914.

Shoreline Manuscript T-11992 supersedes this prior survey and should be used for all future Nautical Chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. Keanae, Hawaii quadrangle, 1:24,000 scale, edition of 1957. The shoreline of these two surveys are in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of Boat Sheet H-8720-PF-10-3-63, scale 1:10,000. There is a slight discrepancy between the shoreline of the boat sheet and the manuscript. This has been indicated on the comparison sheet.

The foul line around Aluea Rocks at latitude $20^{\circ} 51' 00''$ longitude $156^{\circ} 07' 30''$ is not in agreement between the two sheets. Refer to page 18, "Notes to Verifier" submitted by W.O.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 4116, scale 1:250,000, 12th edition, August 17, 1964. Because of the difference in scales only a visual comparison was made.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

Leo F. Bugnet

Approved by:

J. Bull

J. Bull, Director, Atlantic Marine Center

Approved by:

Charles L. Brown

Chief, Cartographic Branch 660

Chief, Chart Division

L. F. Woodcock

Chief, Photogrammetry Division

Chief, Operations Division

NOTES TO VERIFIER
H-8720
(Comparison with T-1192)

Descriptive Report records indicate that the shoreline survey was field edited. No change in the preliminary manuscript was found to be necessary.

T-11992 was compared with H-8720 (PF-10-3-63) during the final review of T-11992. A difference was found to exist between the surveys in representation of the Aluea Rocks foul area. The hydro survey depicts a considerably small^{er} area; as a result, several rocks shown on the shoreline survey fall outside the hydro survey foul line. The subject details (rocks and foul line) were not changed on the shoreline survey - to agree with H-8720 - for several reasons: the hydro survey boat sheet scale is 1:10,000 (T-11992, scale 1:5,000) and there is no indication of an edit, as such, of the subject details.

JAB

