

11936

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-11936

LOCALITY

State Hawaii

General locality Maui Island

Locality Nuu Bay - Mamalu Bay

1960 1963

CHIEF OF PARTY

H.J. Seaborg, Honolulu Dist. Office

Wm. E. Randall, Baltimore Dist. Office

LIBRARY & ARCHIVES

DATE 1967

USCOMM-DC 5087

5.8.80
10/2/50 - 7/10/63

DESCRIPTIVE REPORT - DATA RECORD

T -11936

PROJECT NO. (II): PH-6012
(21034)

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):

~~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):

PUU MANEONEO 2, 1950

LAT.:

20° 37' 47.195"

LONG.:

156° 10' 16.855"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 107,923.65'

X = 669,369.41'

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 (II): J. C. Lajoie		DATE: Dec. 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Kelsh Plotter from annotations on 1960 photography.		
PROJECTION AND GRIDS RULED BY (IV): R.A.C.		DATE 12-6-60
PROJECTION AND GRIDS CHECKED BY (IV): J.D.C.		DATE 12-7-60
CONTROL PLOTTED BY (III): E. L. Williams		DATE 3-30-62
CONTROL CHECKED BY (III): R. E. Fuechsel		DATE 2-62
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
STEREOSCOPIC INSTRUMENT COMPILATION (III): E. L. Williams	PLANIMETRY E. L. Williams	DATE 4-4-62
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): J. D. Mc Evoy		DATE 4-62
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): D. M. Brant		DATE 2-64
REMARKS: FIELD EDIT 1963 (1960-7)		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"W" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2464 thru 2466	8 Oct. 1960	0910	1:25,000	1.5 Ft. above MLLW
61 W 1045 & 1046	25 Sept. 1961	0902	1:15,000	0.5 Ft. " "
60 W 2294 & 2295	2 Oct. 1960	1141	Ratio 1:5,000	1.5 Ft. " "
61 W 1093 thru 1095	25 Sept. 1961	0948	1:10,000	1.5 Ft. " "
61 W 1139 & 1140	25 Sept. 1961	1009	1:10,000	0.2 Ft. " "
Stages of tide 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: Makena		1.5	2.1
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, ~~Norfolk Regional Office~~ ^{Atlantic Marine Center}

DATE: ~~Sept. 1965~~ ^{4/21/66}

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:
None

IDENTIFIED:
None

NUMBER OF BM(S) SEARCHED FOR (III):

RECOVERED:
None

IDENTIFIED
None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

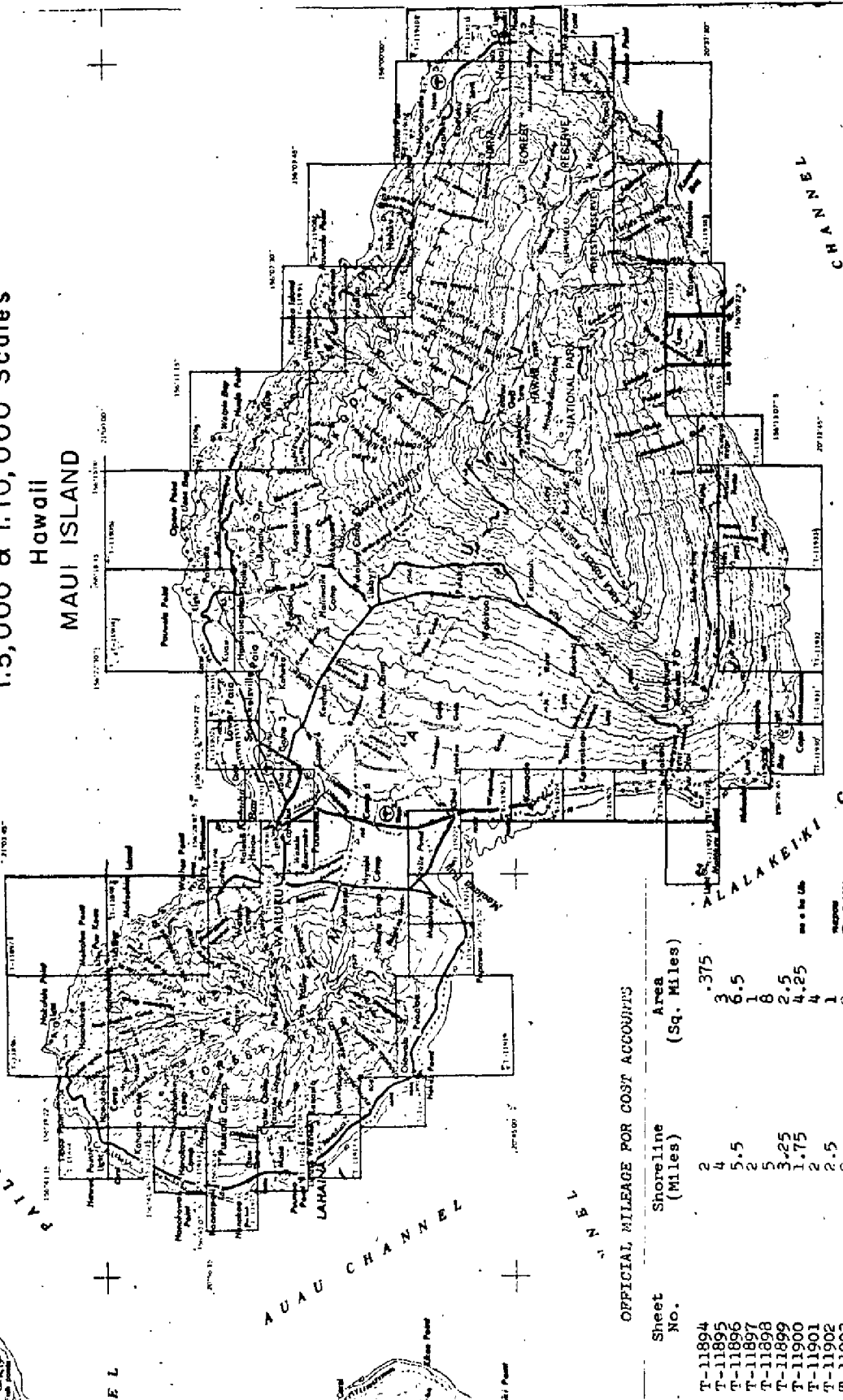
4

REMARKS:

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	April 1962	Superseded
Compilation completed	Jan. 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	.375
T-11895	4	3
T-11896	5.5	6.5
T-11897	2	1
T-11898	5	8
T-11899	3.25	2.5
T-11900	1.75	4.25
T-11901	4	1
T-11902	2.5	2
T-11903	2	6
T-11904	5	4
T-11905	4.5	10
T-11906	6.5	6
T-11907	7	16
T-11908	5	.25
T-11909	4.7	3
T-11910	.75	2.7
T-11911	2.7	3
T-11912	2.7	4.5
T-11913	2.2	2.2
T-11914	2.5	4
T-11915	2.5	2.6
T-11916	2.7	4
T-11917	3	4.5
T-11918	3	3

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Shoreline (Miles)	Area (Sq. Miles)
T-11922	3	3
T-11923	2	3
T-11924	2.5	2.5
T-11925	2.5	1.5
T-11926	2.5	1
T-11927	1	.04
T-11928	3	1.5
T-11929	4.5	3
T-11930	1.5	.25

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Shoreline (Miles)	Area (Sq. Miles)
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	6
T-11938	5	3
T-11939	4.5	3
T-11940	2.5	3

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11936

Shoreline manuscript T-11936 is one of forty-nine similar maps in this project and covers a part of the coastline of Maui Island, Hawaii. This was a Kelsh project in advance of hydrographic surveys in the area. The field operations preceding compilation included the recovery and identification of horizontal control and field inspection. The Kelsh compilation was at 1:5,000 scale from 1:15,000 scale photography obtained 25 September 1961. A cronaflex positive showing shoreline, alongshore features and shoreline pass points was furnished for the preparation of the hydrographer's boat sheet. 1:5,000 scale ratio prints were subsequently furnished for the location of hydrographic signals and for field edit purposes. The compilation manuscript is a vinylite sheet 2 minute 52.5 seconds in latitude by 1 minute 52.5 seconds in longitude from which the smooth sheet was drafted and reproduced on cronaflex. One cronar positive and one cronar negative are provided for record and registry.

FIELD INSPECTION REPORT T-11936

Please refer to the Field Inspection Report bound with
the Descriptive Report for T-11894.

PHOTOGRAMMETRIC PLOT REPORT
T-11936

Please refer to the Photogrammetric Plot Report for Maui Island (East Half), dated February 1962, which is bound with The Descriptive Report for T-11931.

COMPILATION REPORT T-11936

ITEMS 31 THRU 36

Please refer to the compilation report bound with the Descriptive Report for T-11934.

37. LANDMARKS AND AIDS

There are no landmarks or nonfloating aids to navigation within the limits of this map.

38. CONTROL FOR FUTURE SURVEYS

There was no supplemental control established for future surveys.

39. JUNCTIONS

Satisfactory junctions were made with T-11935 on the west and T-11937 on the east. There is no contemporary survey on the north; Alenuihaha Channel is on the south.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report bound with the Descriptive Report for T-11894.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with U.S.G.S. Quadrangle Kaupo, Hawaii 1:24,000 scale, edition of 1957.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with nautical chart 4116, 1:250,000 scale, 11th edition dated April 16, 1941 and revised January 9, 1961.

11.

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

T-11936

48. Geographic Names List:

The Geographic names listed below were furnished by the Washington Office on U.S.G.S. Kaupo, Hawaii 7 $\frac{1}{2}$ minute quadrangle, 1:24,000 scale, edition of 1957.

Apole Point
Haweleele Gulch
Lapehu Point
Mamalu Bay
Nuu (site)
Nuu Bay
Nuu Landing
Pacific Ocean
Puu Maneoneo
Waiu Bay
Waiu Spring
Nopuo Bay

A. J. Wraight

ALL NAMES APPROVED BY
GEOGRAPHIC NAMES SECTION
UNLESS OTHERWISE MARKED.

49. NOTES FOR THE HYDROGRAPHER

The following photo-hydro signals, identified by the field inspection party, were located during compilation.

3601	E. Gable, tin roof house	60 W 2294
3602	Flag at north side of gate	60 W 2294
3603	S.E. corner of reservoir	60 W 2295
3604	Flag at N.E. corner of old wall	60 W 2295

FORM 182 (P-61)		PHOTOGRAMMETRIC OFFICE REVIEW		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
1. PROJECTION AND GRIDS DMB		2. TITLE DMB		3. MANUSCRIPT NUMBERS DMB	4. MANUSCRIPT SIZE DMB
CONTROL STATIONS	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY DMB		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) NONE		
	7. PHOTO HYDRO STATIONS DMB	8. BENCH MARKS NONE	9. PLOTTING OF SEXTANT FIXES NONE	10. PHOTOGRAMMETRIC PLOT REPORT DMB	
	11. DETAIL POINTS DMB				
ALONGSHORE AREAS (Nautical Chart Data)	12. SHORELINE DMB	13. LOW-WATER LINE NONE	14. ROCKS, SHOALS, ETC. DMB	15. BRIDGES NONE	
	16. AIDS TO NAVIGATION NONE	17. LANDMARKS NONE	18. OTHER ALONGSHORE PHYSICAL FEATURES DMB		
	19. OTHER ALONGSHORE CULTURAL FEATURES DMB				
PHYSICAL FEATURES	20. WATER FEATURES DMB		21. NATURAL GROUND COVER NONE		
	22. PLANETABLE CONTOURS NONE		23. STEREOSCOPIC INSTRUMENT CONTOURS NONE		
	24. CONTOURS IN GENERAL NONE		25. SPOT ELEVATIONS NONE		
	26. OTHER PHYSICAL FEATURES DMB				
CULTURAL FEATURES	27. ROADS DMB	28. BUILDINGS DMB	29. RAILROADS NONE		
	30. OTHER CULTURAL FEATURES DMB				
BOUNDARIES	31. BOUNDARY LINES NONE		32. PUBLIC LAND LINES NONE		
MISCELLANEOUS	33. GEOGRAPHIC NAMES DMB		34. JUNCTIONS DMB		
	35. LEGIBILITY OF THE MANUSCRIPT DMB	36. DISCREPANCY OVERLAY DMB		37. DESCRIPTIVE REPORT DMB	
	38. FIELD INSPECTION PHOTOGRAPHS DMB		39. FORMS DMB		
	SIGNATURE OF REVIEWER For: D.M. Brant Joseph Steinberg		SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT Joseph Steinberg		
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 Joseph Steinberg		

FIELD EDIT REPORT
T-11936

No formal Field Edit Report was received. Please refer to the letter which is the following page of this report.

UNITED STATES GOVERNMENT
Memorandum

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

244-10

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

FROM : Commanding Officer
USSA288S Pathfinder
705 Federal Office Building
Seattle, Washington

SUBJECT: Field Edit Report - GPR-419

DATE: 8 July 1963

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.

- | | |
|----------------|----------------------------------|
| T-11905 | Edited - No changes |
| T-11906 | Edited - Will be forwarded later |
| T-11907 | Edited - Will be forwarded later |
| T-11908 | Edited - Will be forwarded later |
| T-11909 | Edited - Will be forwarded later |
| T-11910 | Edited - Will be forwarded later |
| T-11911 | Edited - Will be forwarded later |
| T-11910 | Forwarded 9 July |
| T-11912 | Edited - No recommended changes |
| T-11912 | Edited - No recommended changes |
| T-11913 | Edited - No recommended changes |
| T-11915 | Forwarded 9 July |
| <u>T-11916</u> | Forwarded 9 July |
| T-11917 | Forwarded 9 July |
| T-11918 | Edited - Will be forwarded later |
| T-11919 | 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.

E. J. Seaborg
E. J. Seaborg
Captain, USSA288S

UNITED STATES GOVERNMENT

Received in
Nautical Chart Division
Office of Cartography
JUL 23 1965

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

Memorandum

(1965)

Date

TO : The Director

DATE: 12 July, 1965

Through: Seattle Regional Office

FROM : Commanding Officer,
USC & GSS PATHFINDER

SUBJECT: Field Edit Report, Project OPR-419, Maui, Molokai,
Lanai and Kahoolawe Islands, Hawaii

No field edit corrections for processing smooth sheets
are required on the following manuscripts:

T-11936 through T-11939
T-11989 through T-11990
T-11828
T-11959 through T-11966
T-11971 through T-11972
T-11974 through T-11976

Minor corrections exist on manuscripts T-11939 (Maui),
T-11975 (Lanai), and T-11976 (Lanai) which are
contained in the hydrographic records. In order that
photogrammetric and hydrographic records may agree,
the following details are furnished:

T-11939 (Maui)

A rock awash at latitude $20^{\circ} 38' 57''$ N, longitude
 $156^{\circ} 03' 26''$ W was searched for during hydrography
and not found. It should be deleted.

T-11975 (Lanai)

A rock awash at latitude $20^{\circ} 45' 25''$ N, longitude
 $156^{\circ} 51' 48''$ W., was searched for and not found
during hydrography. It should be deleted.

A rock awash at latitude $20^{\circ} 44' 16''$ N., longitude
 $156^{\circ} 55' 42''$ W., is not detached but is an extension
of the reef. See enclosed sketch traced from boat
sheet.

charts
4116
4130
4120

4000
4102
4119
4130
4001
prol. too small

Acknowledged by form letter 372

AUG 5 1965

1172

REVIEW REPORT T-11936
SHORELINE
March 23, 1966

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with copies of Registered Planetable Surveys 3276, 1:20,000 scale approved March 30, 1914 and 3275, 1:20,000 scale, approved June 4, 1914. No major discrepancies between the old surveys and the manuscript were noted; however, the shoreline on 1:5,000 scale Map Manuscript T-11936 is shown in greater detail and is more depictive of the area.

This manuscript supersedes the old planetable surveys 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. quadrangle Kaupo, Hawaii, 1:24,000 scale, edition of 1957. The shoreline of the quadrangle and survey T-11936 are in good general agreement. Because of the larger scale of this manuscript, the shoreline and alongshore features are shown in greater detail.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheets H-8825 (PF-10-6-63) in the area that the boat sheet covered. No other contemporary hydrographic survey was available at the time of Final Review.

The shoreline for the boat sheet, covered by this manuscript, was evidently taken from a copy of the Advance manuscript and there were no discrepancies in the area compared.

65. COMPARISON WITH NAUTICAL CHARTS

Chart 4116 at 1:250,000 scale is the only chart coverage of the area. A visual comparison revealed no large discrepancies.

17. ✓
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

No features for investigation by future survey parties in the area were noted.

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet

Approved by:

J. Bull
J. Bull
Director, Atlantic Marine Center

Approved by:

Charles L. Lamm
Chief, Cartographic Branch
Photogrammetric

L. F. Woodcock
Chief, Photogrammetry Division

Chief, Chart Division

Chief, Operations Division

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11936

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

[illegible]