

11900

Diag. Cht. No. 4116.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (Photogrammetric)

Field No. _____ Office No. T-11900

LOCALITY

State Hawaii

General locality Maui Island

Locality Kahului

1960 - 1961

CHIEF OF PARTY

H. J. Seaborg, Honolulu District Office

W. E. Randall, Baltimore District Office

LIBRARY & ARCHIVES

DATE _____

USCOMM-DC 5087

11900

DESCRIPTIVE REPORT - DATA RECORD

T -11900

PROJECT NO. (II): PH-6012 (21034)		
FIELD OFFICE (III): 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): MHW 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 See remarks, page 2
REFERENCE STATION (III): LUKE, 1912		
LAT.: 20° 53' 00.679"	LONG.: 156° 29' 56.708"	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): 199,856.81 Ft. x = 557,206.80 Ft.		STATE Hawaii
		ZONE 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: Feb. 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Mean high water-line located by Kelsh Plotter from October 1960 photography with the aid of field inspection notes.		
PROJECTION AND GRIDS RULED BY (IV): R.A.C.		DATE 11-17-60
PROJECTION AND GRIDS CHECKED BY (IV): J.D.C.		DATE 11-22-60
CONTROL PLOTTED BY (III): D. M. Brant		DATE 1-24-61
CONTROL CHECKED BY (III): H. P. Eichert		DATE 1-24-61
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): Aerotriangulation - Washington Office		DATE 1961
STEREOSCOPIC INSTRUMENT COMPILATION (III): J. D. McEvoy	PLANIMETRY J. D. McEvoy	DATE 7-61
	CONTOURS J. D. McEvoy	DATE 8-63
MANUSCRIPT DELINEATED BY (III): J. D. McEvoy		DATE 8-63
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): D. M. Brant		DATE 8-63
REMARKS: The datum plane for the contours on this survey is Mean Sea Level. FIELD EDIT J.C. Lajoie May 1961 FIELD EDIT SHEET SUBMITTED		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

M^W Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2303 & 2304	2 Oct. 1960	0910	1:25,000	1.0 ft. above MLLW
60 W 2626 & 2627	10 Oct. 1960	0928	1:25,000	1.8 ft. above MLLW

TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Honolulu, Hawaii		1.2	1.9
COORDINATE STATION: Kahului, Hawaii		1.4	2.2
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, Atlantic Marine Center

DATE:
April, 1966

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

4

RECOVERED:

3

IDENTIFIED:

1

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

0

RECOVERED:

0

IDENTIFIED

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

8

REMARKS:

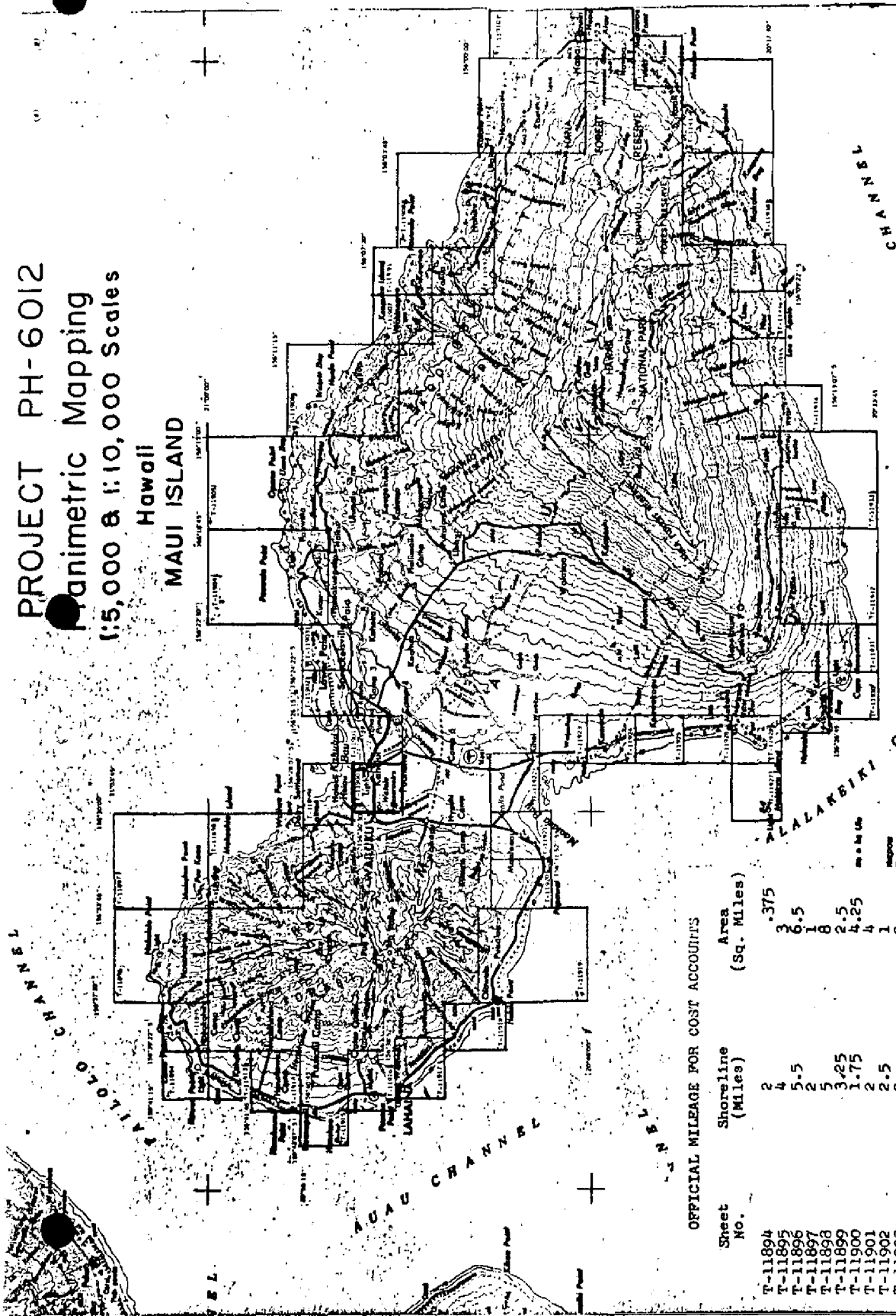
COMPILATION RECORD	COMPLETION DATE	REMARKS
Shoreline furnished for hydro	July 1961	Superseded
Compilation completed	Sept 1963	

PROJECT PH-6012

Panimetric 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	2	4
T-11902	2.5	1
T-11903	2	2
T-11904	5	6
T-11905	4.5	4
T-11906	6.5	10
T-11907	7	7.8
T-11908	5	6
T-11909	4.7	16
T-11910	.75	.25
T-11911	2.7	2
T-11913	2.2	3
T-11914	2.2	4.5
T-11915	2.5	2.2
T-11916	2.5	2.2
T-11917	2.7	2.6

OFFICIAL MILEAGE FOR COST ACCOUNTS

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

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	2
T-11936	5	4
T-11937	5	4
T-11938	5	6
T-11939	4.5	3

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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11900

Shoreline survey T-11900, compiled at 1:5,000 scale, covers a part of the shoreline of Maui Island, Hawaii in the vicinity of Kahului Harbor. This is one of forty-nine similar surveys in the same project made in advance of hydrography in the same area.

Compilation was by Kelsh Instrument using the 1:15,000 and 1:25,000 scale panchromatic photography obtained on 24 September 1961 and October 2nd and 10th 1960. Supplemental control established by Aerotriangulation was used for control of the Kelsh models.

Field operations preceding compilation included recovery and identification of horizontal control, field inspection and selection of photo-hydro stations.

A cronaflex copy of the incomplete map manuscript was provided for preparation of the boat sheet. Specially prepared ratio photographs for locating hydrographic signals by photogrammetric methods and field edit purposes were furnished.

The manuscript is a vinylite sheet from which the smooth sheet was drafted and reproduced on cronaflex. One cronar positive and one cronar negative are forwarded for record and registry.

FIELD INSPECTION REPORT
T-11900

Please refer to the Field Inspection Report for Maui Island, Hawaii, dated 8 September 1962, bound with the Descriptive Report for T-11894.

SCALE FACTOR

1 FT. = 3048006 METER	DATE	CHECKED BY	DATE	COM-DC-57843
COMPUTED BY: D. M. Brant	1-61	H. P. E.	1-61	

PHOTOGRAMMETRIC PLOT REPORT
T-11900

Please refer to the Photogrammetric Plot Report for the Western half of Maui Island which is bound with the Descriptive Report for T-11894.

10.

COMPILATION REPORT T-11900

31. DELINEATION

Planimetry was by Kelsh Instrument using the annotations on the field inspection photographs.

32. CONTROL

The supplemental control, established by aerotriangulation, was adequate in placement and density for control of the manuscript.

33. SUPPLEMENTAL DATA

No supplemental surveys were used to delineate the manuscript although the drainage pattern was checked against U.S.G.S. quadrangles in the area.

34. CONTOURS AND DRAINAGE

The area immediately surrounding Kahului Harbor was contoured by field methods directly on field photographs up to and including the 15 ft. contour. No difficulty was encountered in compiling the contours. It is noted that the area just south of and adjacent to the west breakwater was being filled at the time of field work and the contours are not shown in this area.

Drainage was delineated by the Kelsh operator.

35. SHORELINE AND ALONGSHORE DETAIL

The mean high-water line and alongshore features were delineated by the Kelsh operator from field inspection photographs with the exception of the detail described in the following paragraph. The shoreline inspection was adequate for delineation of the manuscript.

A new rock bulkhead, built since the date of photography, was located by field survey methods on an ozalid copy of the incomplete manuscript by the field unit. This bulkhead runs southwestward from the west jetty to the fast land in Kahului Harbor.

36. OFFSHORE DETAILS

No offshore details for delineation were noted during compilation.

11.

37. LANDMARKS AND AIDS

There are no landmarks within the limits of compilation. The fixed aids to navigation have been reported on Form 567.

38. CONTROL FOR FUTURE SURVEYS

No topographic stations were established. Eight temporary photo-hydro stations were located during compilation. These have been listed in paragraph 49 of this report.

39. JUNCTIONS

Satisfactory junctions were made with T-11899 on the north and with T-11901 on the east. There are no contemporary surveys on the west or south.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. Wailuku, Hawaii quadrangle, 1:24,000 scale, edition of 1955.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with the following charts:

4116	1:250,000 scale	12th edition, August 17, 1964
4124	1:30,000 scale	3rd edition, May 3, 1965
4130	1:80,000 scale	4th edition, August 31, 1964

ITEMS TO BE APPLIED TO CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Approved:

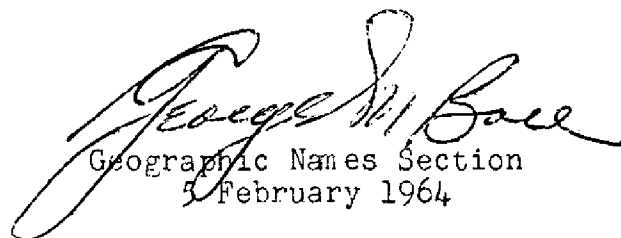
J. Bull
J. Bull, CAPT., USESSA
Director, Atlantic Marine Center

Respectfully submitted:

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

48. Geographic Names List

Hobron Point
Kahului
Kahului Bay
Kahului Harbor
Paukukalo


Geographic Names Section
5 February 1964

49. NOTES FOR THE HYDROGRAPHER

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

0001	Fence corner, lumber yard	60 W 2626
0002	North gable of Ventilator MDG building	60 W 2626
0003	Tip of gross	60 W 2626
0004	Center of 11th (1st silver) quonset hut	60 W 2626
0005	Water gable, old house	60 W 2626
0006	Double highway sign	60 W 2626
0007	3rd palm tree	60 W 2626
0008	Northwest corner pier 2	60 W 2626
0009	Northwest corner pier 1	60 W 2626

C&GS FORM 1002
(11-13-61)U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T-11900

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 DMB		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 DMB	
16. AIDS TO NAVIGATION DMB		17. LANDMARKS DMB		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 DMB	
23. STEREOSCOPIC INSTRUMENT CONTOURS NONE		24. CONTOURS IN GENERAL DMB		25. SPOT ELEVATIONS DMB		26. OTHER PHYSICAL FEATURES DMB	
CULTURAL FEATURES							
27. ROADS DMB		28. BUILDINGS DMB		29. RAILROADS DMB		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	
40. REVIEWER For: D. M. Brant <i>Joseph Steinberg</i>				SUPERVISOR, REVIEW SECTION OR UNIT <i>Joseph Steinberg</i>			
41. REMARKS (See attached sheet)							
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT							
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.							
COMPILER <i>Joseph Steinberg</i> For: D. M. Brant				SUPERVISOR <i>Joseph Steinberg</i>			
43. REMARKS							

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FIELD EDIT REPORT
T-11900

Please refer to the Field Edit Report for Maui Island (Strips 1 through 7) bound with the Descriptive Report for T-11894.

15.

REVIEW REPORT T-11900
SHORELINE
April 27, 1966

61. GENERAL STATEMENT

See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Surveys No. 2463, 1:2,500 scale made in 1899, approved Feb. 1, 1901 and No. 4465 1:5,000 scale made in March and April 1929.

The shoreline, offshore and alongshore detail have changed since the date of these surveys. The major changes have been noted on the comparison sheet.

Survey T-11900 supersedes the prior surveys and should be used for future nautical chart construction in the area of this sheet.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. quadrangle Wailuku, Hawaii, 1:24,000 scale, edition of 1955. The two surveys are in good agreement except for the area just south of the west breakwater. This area has been filled and does not show on the U.S.G.S. quadrangle.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheet H-8576 (SU-10-1-61) and H-8684 (PF-5-1-62). The shoreline for the boat sheets was obtained from copies of the map manuscript and there are no discrepancies.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 4124, 1:30,000 scale, 3rd edition, May 3, 1965. The Chart and manuscript are in good agreement.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey compiles with project instructions and meets the National Standards for Map Accuracy.

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet

Approved by:

J. Bull
J. Bull, CAPT., USESSA
Director, Atlantic Marine Center

Approved by:

Charles L. Hanner
Chief, Cartographic Branch 560

John O. Boyer 2/2/68
Chief, Chart Division
Marine

L. F. Woodcock
Chief, Photogrammetry Division

Chief, Operations Division

TO BE DELETED

Kihel, Maui Hawaii

Oct. 6 1965

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

I recommend that the following objects which have *(kaze-nag)* been inspected from seaward to determine their value as landmarks be charted on *(entered from)* the charts indicated.

The positions given have been checked after listing by

D. M. Brant

Joseph Steinberg *Chief of Party.*

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 6-36, Fig. 79. Positions of charted landmarks and non-floating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11900

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]