FE57

Diagram No. 8202-2

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT
(HYDROGRAPHIC)

Type of Survey ..... Field Examination

Field No. .....

Office No. FE-57 (1945)

LOCALITY

State ..... Alaska

General Locality ... Skagway

Locality ..... Wharf at Skagway

.....

19 45

CHIEF OF PARTY
K.G. Crosby

LIBRARY & ARCHIVES

DATE ..... October 11, 1946

☆ U.S. GOV. PRINTING OFFICE: 1976—669-441

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previously registered as:

FE No.2 1946

FE57

FE 2
1946

FE-57

Diag'd. on Diag. Ch. No. 8202-2 (inset)

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. ..... *Office No.* FE - 2 - 1946

LOCALITY

State Alaska

General locality Skagway, Alaska

Locality wharf at Skagway, Alaska

194 5

CHIEF OF PARTY

Kenneth G. Crosby

LIBRARY & ARCHIVES

DATE OCT 11 1946

B-1870-1 (1)

FE 2
1946

Form 537
(Ed. Nov. 1941)

REG. NO.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. FE - 2 - 1946 ✓

Field No. _____

State ALASKA

General locality SKAGWAY

Locality WHARF AT SKAGWAY

Scale 1:1,000 Date of survey August, 1945

Instructions dated 10 April 1945

Vessel WESTDAHL

Chief of party K. G. Crosby

Surveyed by H. F. Garber

Soundings taken by ~~echometer, graphic recorder~~ hand lead, ~~wire~~

Protracted by C. E. Petersen

Soundings penciled by C. E. Petersen

Soundings in ~~fathoms~~ feet at ~~MLLW~~ MLLW

REMARKS: Tagline Survey

Plotted in the Seattle Processing Office

U. S. GOVERNMENT PRINTING OFFICE 428975

Comparison with Previous Survey:

The survey was compared with H-6945, 1943 and found to be substantially in agreement. However since the new survey was made on a larger scale, using tagline and ranges rather than 3-point sextant fixes, it is recommended that the new survey supersede the 1943 survey.

The present survey does not agree with the work done by the Coast Guard Control Station of Skagway on 8 Dec. 1944. The present survey generally shows shoaler depths, indicating that possible erroneous tide reducers were used by the Coast Guard. The depths are especially shoaler along the face of the dock. As stated above the soundings were taken along the face of the dock on the line of the offshore face of piling, whereas the Coast Guard may have taken their soundings a meter or so outside of this line.

As the work substantially agrees with the 1943 work of the WESTDAHL, it is recommended that the Coast Guard work be disregarded.

Harry F. Garber,
Lieut. Comdr., USC&GS
Comdg., WESTDAHL

CHART DIVISION

REVIEW SECTION - NAUTICAL CHART BRANCH

This survey satisfactorily complies with instructions for a wharf survey and is adequate to supersede H-6945 (1943) in the common area.

4 November, 1946 G. F. Jordan

Approved: H. W. Murray

Descriptive Report to
Accompany
Hydrographic Sheet off Skagway Wharf
Scale 1:1,000
Ship WESTDAHL K. G. Crosby, Comdg.
August, 1945

Project:

The work was performed in accordance with the Director's letter dated 10 April 1945, Ref. 22/MEK 1995 WE 4.

Survey Limits & Dates:

A tagline survey was made along the face of Skagway Wharf to the 10 fathom curve on 31 August, 1945. No junction was made with previous work.

Vessel & Equipment:

The work was done with a tagline marked every 5 meters, operating normal to the wharf, using a dinghy with outboard motor. All soundings were taken with the handlead. In addition handlead soundings were taken along the face of the wharf at 5 meter intervals by walking along the wharf.

Topography:

Triangulation SHAFT 1943 and topographic station BID and DOG (Sheet H-6945) were recovered and a planetable survey of the wharf outline was made on a scale of 1:1,000, Field Sheet "A"-45. - Used for smooth sheet L.E.S.

Control of Hydrography:

Sounding lines were controlled by ranges and tagline. The face of the wharf was taped and marked at 10 meter intervals using portable range markers for each line. The tagline was marked at 5 meter intervals and the soundings taken exactly on range at the proper distance from wharf. The soundings along the face of wharf were controlled by measured distances. (See detail of measurements on pages 3 & 5 of the sounding volume).

Adequacy of Survey:

The survey is adequate for the area covered.

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

October 24, 1946

~~Division of Hydrography and Topography~~

Division of Charts: H. W. MURRAY

Plane of reference approved in 1
volumes of sounding records for

HYDROGRAPHIC SHEET F.E. No. 2, 1946 (S-2439)

Locality - Skagway Dock, Southeast Alaska

Chief of Party: K. G. Crosby in 1945
Plane of reference is mean lower low water, reading
6.2 ft. on tide staff at Skagway
30.1 ft. below B. M. 1

Height of mean high water above plane of reference is 15.8 feet.

Condition of records satisfactory except as noted below:

E.C. McKay
Chief, ~~Division~~ Section of Tides ~~and Currents.~~

U. S. GOVERNMENT PRINTING OFFICE 154327

Furnished by Washington Office.

Form 362
Ed. May, 1929
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TIDES: HOURLY HEIGHTS

Station: Skagway, Alaska Year: 1945

Observer: _____ Lat. _____ Long. _____

Time Meridian: 120° W Height datum is MLLW which is _____ ft. below B. M. _____

U. S. GOVERNMENT PRINTING OFFICE 11—792

Month and Day	mo. Aug.	d. 31	d.	d.	d.	d.	d.	d.	Horizontal Sum
Day of Series									
Hour	Feet		Feet	Feet	Feet	Feet	Feet	Feet	Feet
0	.		.	.	.	.	.	.	.
1	.		.	.	.	.	.	.	.
2	.		.	.	.	.	.	.	.
3	.		.	.	.	.	.	.	.
4	.		.	.	.	.	.	.	.
5	.		.	.	.	.	.	.	.
6	.		.	.	.	.	.	.	.
7	.		.	.	.	.	.	.	.
8	11.7		.	.	.	.	.	.	.
9	12.0		.	.	.	.	.	.	.
10	11.4		.	.	.	.	.	.	.
11	10.2		.	.	.	.	.	.	.
Noon	8.3		.	.	.	.	.	.	.
13	6.6		.	.	.	.	.	.	.
14	5.5		.	.	.	.	.	.	.
15	5.4		.	.	.	.	.	.	.
16	.		.	.	.	.	.	.	.
17	.		.	.	.	.	.	.	.
18	.		.	.	.	.	.	.	.
19	.		.	.	.	.	.	.	.
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21	.		.	.	.	.	.	.	.
22	.		.	.	.	.	.	.	.
23	.		.	.	.	.	.	.	.
Sum	.		.	.	.	.	.	.	.

Sum for = . Divisor=(28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month=

Tabulated by _____ Date _____ Summed by _____ Date _____

Form 362
Ed. May, 1929
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TIDES: HOURLY HEIGHTS

Station: _____ Year: _____

Observer: _____ Lat. _____ Long. _____

Time Meridian: _____ Height datum is _____ which is _____ ft. below B. M. _____

U. S. GOVERNMENT PRINTING OFFICE 11—792

Month and Day	*mo.* *d.*	*d.*	*d.*	*d.*	*d.*	*d.*	*d.*	Horizontal Sum
Day of Series								
Hour	*Feet*	*Feet*	*Feet*	*Feet*	*Feet*	*Feet*	*Feet*	*Feet*
0	.	.	.	.	.	.	.	.
1	.	.	.	.	.	.	.	.
2	.	.	.	.	.	.	.	.
3	.	.	.	.	.	.	.	.
4	.	.	.	.	.	.	.	.
5	.	.	.	.	.	.	.	.
6	.	.	.	.	.	.	.	.
7	.	.	.	.	.	.	.	.
8	.	.	.	.	.	.	.	.
9	.	.	.	.	.	.	.	.
10	.	.	.	.	.	.	.	.
11	.	.	.	.	.	.	.	.
Noon	.	.	.	.	.	.	.	.
13	.	.	.	.	.	.	.	.
14	.	.	.	.	.	.	.	.
15	.	.	.	.	.	.	.	.
16	.	.	.	.	.	.	.	.
17	.	.	.	.	.	.	.	.
18	.	.	.	.	.	.	.	.
19	.	.	.	.	.	.	.	.
20	.	.	.	.	.	.	.	.
21	.	.	.	.	.	.	.	.
22	.	.	.	.	.	.	.	.
23	.	.	.	.	.	.	.	.
Sum	.	.	.	.	.	.	.	.

Sum for = Divisor=(28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month=

Tabulated by _____ Date _____ Summed by _____ Date _____

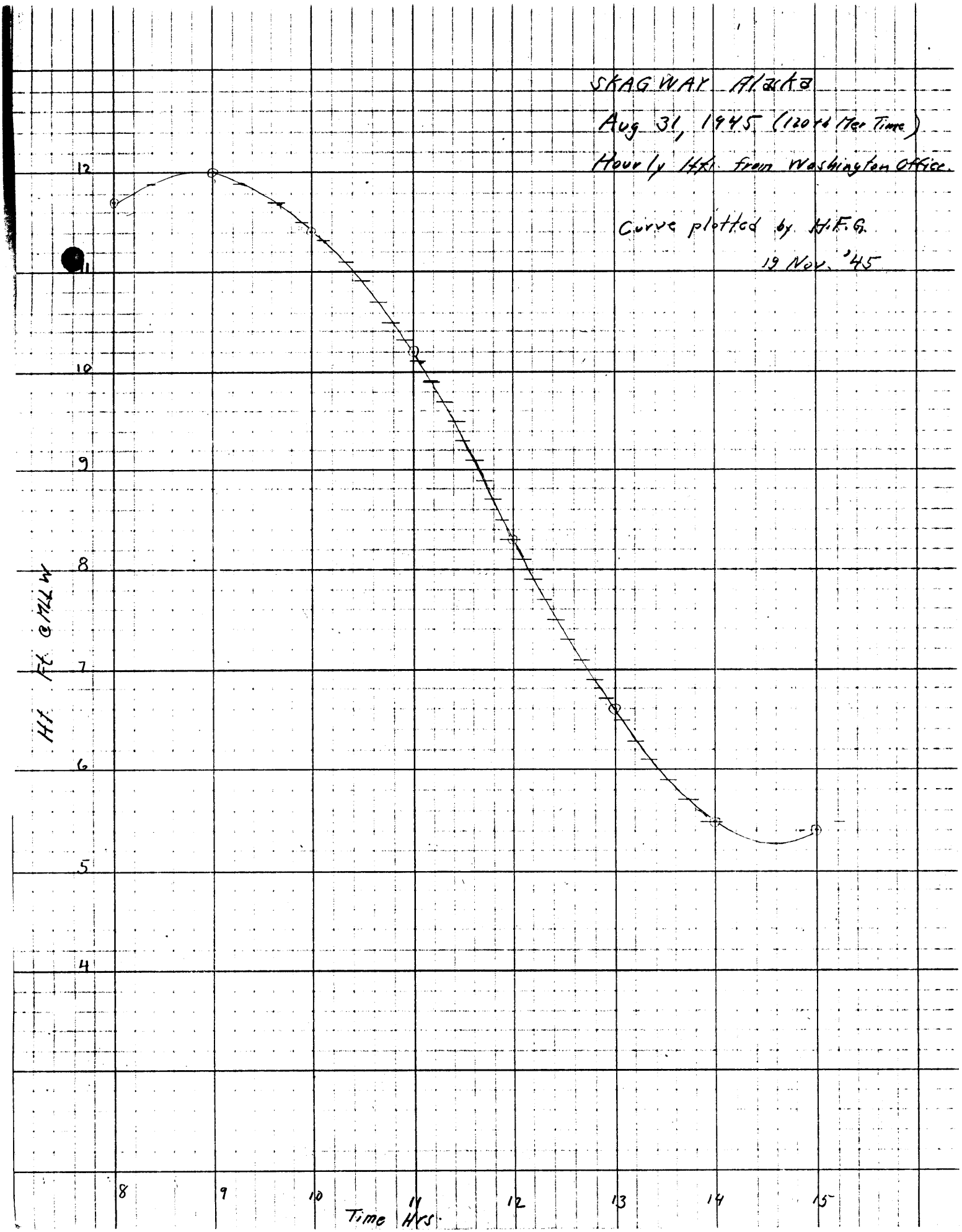
SKAGWAY ALASKA

Aug 31, 1945 (120th Mer Time)

Hourly Hts. from Washington Office.

Curve plotted by H.F.G.

19 Nov. '45



Tidal Note

Skagway, Alaska

Tagline Survey

The primary tide gage at Skagway, Alaska, was used for the reductions of soundings. Hourly heights at MLLW were furnished by the Washington Office.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. ..... *Office No.* .....

LOCALITY

State Alaska

General locality Skagway, Alaska

Locality wharf at Skagway, Alaska

1945

CHIEF OF PARTY

Kenneth G. Crosby

LIBRARY & ARCHIVES

DATE .....

B-1870-1 (1)

This sheet was used for the hydrographic smooth sheet

Form 537a
Ed. Nov. 1929

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No.

REGISTER NO.

State Alaska

General locality Skagway, Alaska

Locality wharf at Skagway, Alaska

Scale 1:1000 Date of survey August, 1945

Vessel WESTDAHL

Chief of party Kenneth G. Crosby

Surveyed by G. C. Mast

Inked by G. C. Mast

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated 10 April, 1945

Remarks:

GPO

Descriptive Report to accompany

Topographic Sheet "A"

Authority:

Authority for this survey was contained in the Director's letter of 10 April 1945, Reference 22/MEK 1995 WE 4.

Area:

The area covered by the sheet is the dock at Skagway, Alaska.

Purpose:

The purpose of the survey was to control the tag-line survey made along the face of the dock.

Survey Method:

An arbitrary position was selected for triangulation station SHAFT 1943, and using a scale of 1:1,000 a topographic survey was made of the dock by the stadia method. Topographic signals Bid and Dog were located in order that the hydrography and topography could be tied in to work previously accomplished.

Projection:

No projection was put on the sheet, as we were advised by the Seattle Processing Office that if the relative positions of the triangulation station and the two topographic stations on the dock were located they would tie the survey in with the surveys previously made.

Respectfully submitted,

G. C. Mast,
H. & G. Engr.

Forwarded:

Kenneth G. Crosby,
H. & G. Engr.,
Comdg., WESTDAHL.

Approval Sheet

The sounding record has been examined and approved by me. The records have been transferred to the Seattle Processing Office for smooth plotting.

K. G. Crosby,
Lt. Comdr., USC&GS
Comdg., WESTDAHL

(No Field number)

Skagway Harbor

Tagline Survey

Seattle Processing Office Notes

Smooth Sheet-

At the suggestion of the field party, the topographic sheet was used for the smooth sheet. The projection was added in the Processing Office. It is based on the G.P. of Station SHAFT and the scaled position of Signal DOG. The topography was made by planetable in the field and inked by the field party. The report on the topography has been added to this descriptive report.

Tagline Soundings-

The method and order of taking the soundings is explained in the one sounding volume on Page 3. A sketch showing line spacing and numbers is on Page 4.

On Page 5 of the sounding record is a sheet of original tide staff readings made during the survey. This staff was about the center of the S. W. end of the wharf. However, reducers were not derived from this record but from a sheet of Hourly heights attached hereto which was furnished by the Washington Office, presumably from the marigram of the primary tide gage on the same wharf where the soundings were taken.

Skagway, Alaska

Tagline Survey

Geographic Names Penciled on the Smooth Sheet

Taiya Inlet

Skagway

Respectfully submitted,

Edgar E. Smith

Edgar E. Smith
Cartographic Engineer
Seattle Processing Office

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. FE - 2 - 1946

Records accompanying survey:

Boat sheets 1; sounding vols. 1; wire drag vols. 0;

bomb vols. 0; graphic recorder rolls 0;

special reports, etc. none

The following statistics will be submitted with the cartographer's report on the sheet:

Number of ~~positions~~ Soundings on sheet		314
Number of positions checked		none on sheet
Number of positions revised		none on sheet
Number of soundings revised (refers to depth only)		1
Number of soundings erroneously spaced		0
Number of signals erroneously plotted or transferred		0
Topographic details	Time	1 hr.
Junctions	Time	4 hrs.
Verification of soundings from graphic record	Time	No graphic Records

Verification by Francis J. Ortiz Total time 22 hrs. Date 11/1/46

Reviewed by J. F. Jordan Time 3 Date 11/4/46

M-2232-1

F. E. NO. 2 (1946)
WHARF AT SKAGWAY, ALASKA
Scale 1 : 1,000

NOTE: Soundings inked inside face of pier were taken along face of pier.

JOINS H-6945 (1943)

135° 19'30

59° 26' 45"

26' 55"

26' 50"

19' 20"

19' 25"

19' 35"

FLOATS

D O G

BID

SHAFT 1943

Feb 1946

NAUTICAL CHARTS BRANCH

SURVEY NO. F E - 2 - 1946

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.