5779

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. ..... *Office No.* T-5779

LOCALITY

State Alaska

General locality Kuskokwim Bay

Locality Jacksmith Bay

1949

CHIEF OF PARTY

B-1870-1 (1)

DATA RECORD

T - 5779

Project No. (II): Ph-41 (49)S Quadrangle Name (IV): Jacksmith Bay

Field Office (II): Portland, Oregon Chief of Party: A. Newton Stewart

Photogrammetric Office (III): Washington, D. C. Officer-in-Charge: L. W. Swanson

Instructions dated (II) (III): 3 March 1949 Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Reading 9-Lens Plotter

Manuscript Scale (III): 1:20,000 Stereoscopic Plotting Instrument Scale (III): 1:20,000

Scale Factor (III): 1:1

Date received in Washington Office (IV): 3-1-55 Date reported to Nautical Chart Branch (IV): 3-7-55

Applied to Chart No. Date: Date registered (IV): 15 April 1958

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): NA 1927 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):

Lat.: Long.: Adjusted ~~Unadjusted~~

Plane Coordinates (IV): State: Zone:

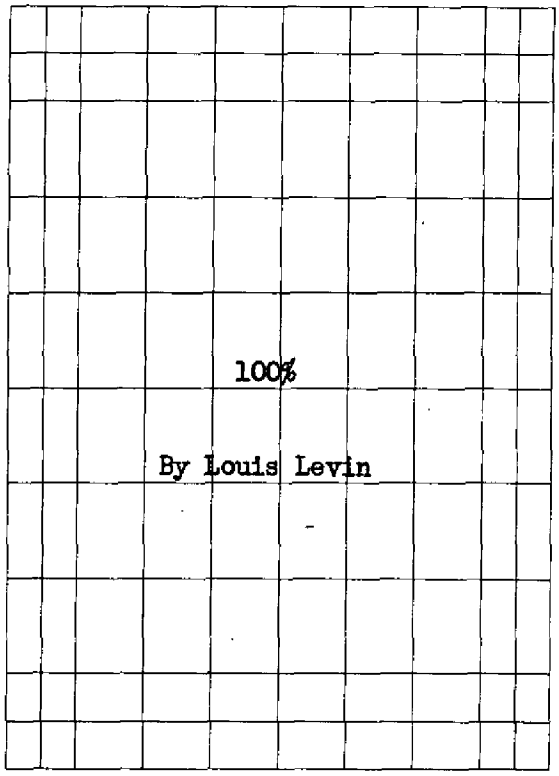
Y= X=

Universal Transverse Mecator Grid, Zone 4
with 2500 meter interval.

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.

M-2618-12(4)



Areas contoured by various personnel
(Show name within area)
(II) (III)

DATA RECORD

Field Inspection by (II): A. N. Stewart — Date: July 1949

Planetable contouring by (II): None — Date:

Completion Surveys by (II): — Date:

Mean High Water Location (III) (State date and method of location):
Delineated from photographs
taken 8 August 1950

Projection and Grids ruled by (IV): Joan Thuma — Date: 10 Sept. 1953

Projection and Grids checked by (IV): Howard D. Wolfe — Date: 14 Sept. 1953

Control plotted by (III): Lester C. Lande — Date: 20 Sept. 1953

Control checked by (III): Neil S. Schultz — Date: 22 Sept. 1953

Radial Plot ~~or Stereoscopic Control Extension~~ by (III): Samuel D. Blankenbaker — Date: 28 Oct. 1953

Stereoscopic Instrument compilation (III):
Planimetry L. Levin — Date: June 1954
Contours L. Levin — Date: June 1954

Manuscript delineated by (III): John B. McDonald — Date: Nov. 1954

Photogrammetric Office Review by (III): Orvis N. Dalbey — Date: 4 Feb. 1955

Elevations on Manuscript checked by (II) (III): Orvis N. Dalbey — Date: 4 Feb. 1955

M-2618-12(4)

Camera (kind or source) (III): U.S.C.&G.S. 9-lens camera, Model "B" f = 8.25 inches

PHOTOGRAPHS (III)

Number	Date	Time		Scale	Stage of Tide
28456-460	8 Aug. 1950	15.50	4.0	1:20,000	6.7 ~~7.5~~ below MHHW
28385-390	8 Aug. 1950	14.25	3.1	"	~~7.6~~ ~~9.1~~ " "

Carter Spit:
low @ 12:44
high @ 16:43 = 4 hrs duration 3/10 to 4/10 Tides

Tide (III)

Reference Station: Malarani, Peru
Subordinate Station: Carter Spit
Subordinate Station:

Ratio of Ranges	Mean Range	Diurnal Spring Range
		~~8.6~~
		10.7

Washington Office Review by (IV): Lena F. Stevens Date: 26 April, 1955

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

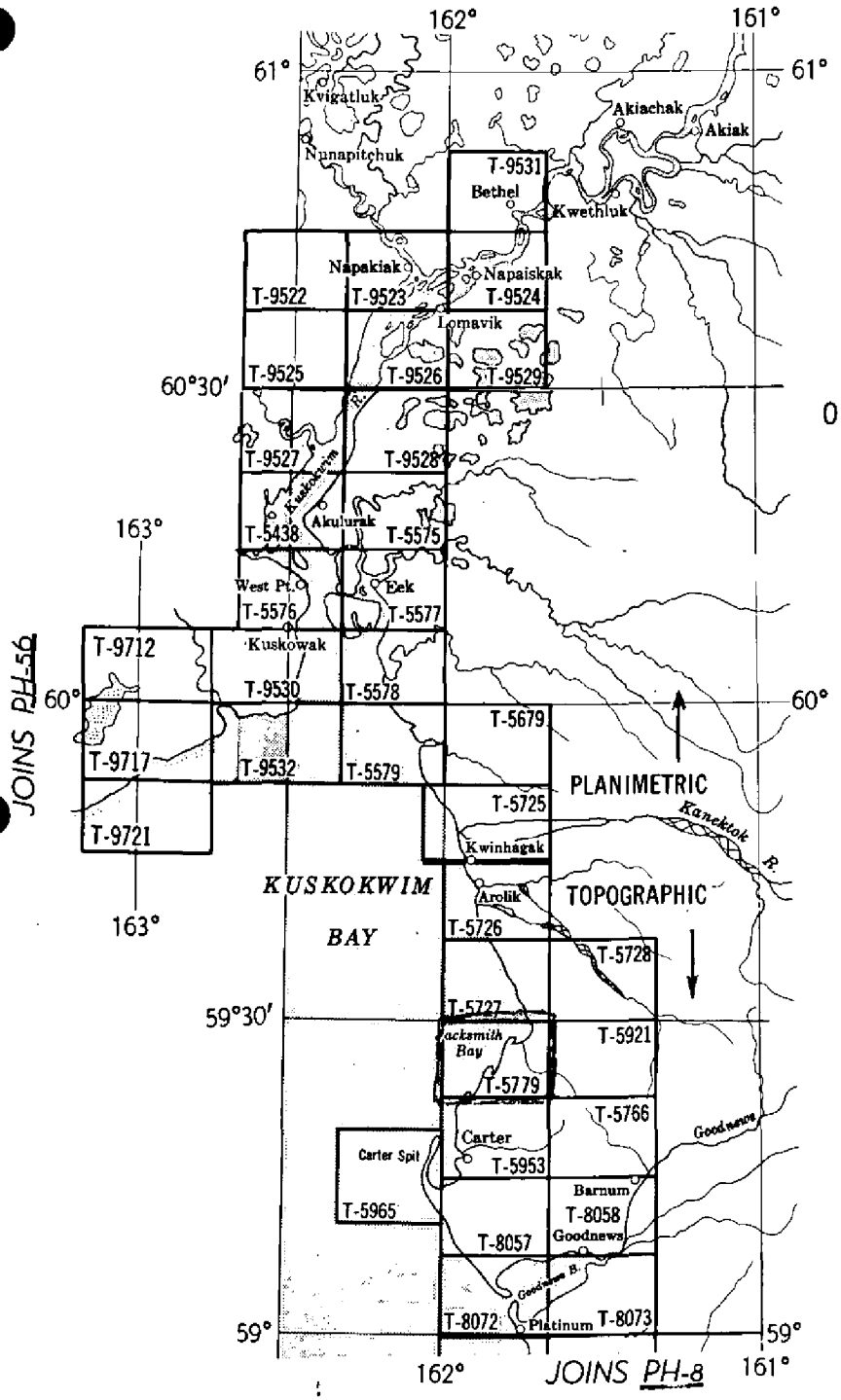
Land Area (Sq. Statute Miles) (III): 45
Shoreline (More than 200 meters to opposite shore) (III): 22 miles
Shoreline (Less than 200 meters to opposite shore) (III): 8 "
Control Leveling - Miles (II): None
Number of Triangulation Stations searched for (II): Recovered: 7 Identified: 7
Number of BMs searched for (II): None Recovered: Identified:
Number of Recoverable Photo Stations established (III): 3
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

M-2618-12(4)

PLANIMETRIC AND TOPOGRAPHIC MAPPING PROJECT PH-41

ALASKA-BERING SEA, Kuskokwim Bay to Goodnews Bay



OFFICIAL MILEAGE FOR COST ACCOUNTS

PLANIMETRIC Sheet No's.	Sq. St. Miles	TOPOGRAPHIC Sheet No's.	Sq. St. Miles
T-5438	55	T-5726	80
T-5575	54	T-5727	40
T-5576	65	T-5728	104
T-5577	80	T-5779	45
T-5578	45	T-5921	104
T-5579	35	T-5953	90
T-5679	108	T-5965	15
T-5725	104	T-5766	104
T-9522	18	T-8057	104
T-9523	65	T-8058	104
T-9524	76	T-8072	20
T-9525	65	T-8073	90
T-9526	65	TOTALS	900
T-9527	54		
T-9528	45		
T-9529	82		
T-9530	88		
T-9531	100		
T-9532	18		
T-9712	80		
T-9717	91		
T-9721	6		
TOTALS	1399		

PLANIMETRIC MAPS: Maps T-5438, T-5575 to T-5579, T-5725, T-9522 to T-9532, T-9712, T-9717 and T-9721.
TOPOGRAPHIC MAPS: Maps T-5726 to T-5728, T-5766, T-5779, T-5953, T-5965, T-8057, T-8058, T-8072 and T-8073

Compiled at 1 :20,000 scale, from 1 :20,000 scale nine-lens photographs taken August 1950 and 1 :27,000 scale single-lens photographs taken August 1948.
(Refer to Air-photo Index B-52-53 and E-1-2).

For field work done on 1945 photography (See Air-Photo Index E
For field work done on Tri-Met photography (See Tri-Met Index).

Summary to Accompany T-5779

Project Ph-41(49), Kuskokwim Bay and River, has two sections: Ph-41(S) consists of twelve topographic maps, extending from Platinum (59° 00') to Kwinhagak (59° 45'); and Ph-41(N), twenty-two planimetric maps, extending from Kwinhagak to the vicinity of Bethel (60° 52-1/2').

The field work was carried out as a combined operation between Photogrammetry and Geodesy (Project G-949) during the season 1949 and was a continuation of the Bristol Bay project, 1948.

T-5779 includes the shoreline of Jacksmith Bay, southward to include the two spits between Carter Bay and Jacksmith Bay; the tundra and marsh area traversed by Cripple Creek and Jacksmith Creek; and westward to include Figure Four Mountain, N.E. Twin and S.W. Twin Mountains.

FIELD INSPECTION REPORT

2-20. See separate report entitled:

PROJECT REPORT
AERIAL PHOTOGRAPH CONTROL AND INSPECTION
KUSKOKWIM BAY, ALASKA
Project Ph-41 (49) May to July 1949
A. Newton Stewart, Chief of Party

filed in library under Project Completion report Ph 41

RADIAL PLOT REPORT

21-30. One radial plot covered the entire area of this report. The report is included in the Descriptive Report for T-8072.

Compilation Report
T-5779

31. Delineation:

The planimetry and topography were compiled on the Reading Nine-lens Plotter, Model "B", using rectified metal-mounted photographs.

The quality of the photographs was good and consequently no unusual difficulty was encountered in delineating the contours and planimetry.

32. Control:

Refer to paragraph 23, Radial Plot Report.

The vertical control is believed to be adequate for the control of 50' contours.

33. Supplemental Data: None.

34. Contours:

No particular difficulty was encountered in the delineation of the contours.

35. Shoreline and alongshore details:

The shoreline inspection was adequate inasmuch as the H.W.L. in most cases was clearly visible on the office photographs.

Although the field party did not inspect the low water line, an attempt was made to delineate an approximate low water line, in some areas, from the office photographs which were taken near the stage of low tide.

36. Offshore Details:

No unusual problems were encountered in delineating the offshore features.

37. Landmarks and Aids:

Form 567 for the two landmarks, NE Twin MTN. and SW Twin MTN, under chart letter No. 381 (1950), has been submitted by A. N. Stewart.

38. Control for Future Surveys:

Three Form 524 cards are being submitted with this report. They are listed in paragraph 49.

39. Junctions:

Junction was made with T-5727 to the North, T-5921 to the East and T-5953 to the South. The western limits of the sheet fall in Kuskokwim Bay.

40. Horizontal and Vertical Accuracy:

It is believed that no area of the map is below the horizontal or vertical accuracy requirements.

46. Comparison with Existing Maps:

This map was compared with 1:250,000-scale U.S. Geological Map "Goodnews", 1951.

47. Comparison with Nautical Charts:

Comparison was made with 1:200,000-scale nautical chart No. 9103.

48. Geographic Names List: Listed on following page.

49. Notes to the Hydrographer:

See separate page entitled, "Notes to the Hydrographer.

50. Compilation Office Review:

See enclosed Form T-2.

Approved:

S. V Griffith
Chief, Cartographic Branch

Louis Levin
Cartographer (Photogrammetry)

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~ } STRIKE OUT ONE

Washington, D. C. 4 Feb., 1955

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by O. N. Dalby

T-5779

A. N. Stewart
Chief of Party.

STATE / CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° '	LATITUDE D.M. METERS	LONGITUDE ° '	LONGITUDE D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
NE. TWIN MTN.	The higher of twin peaks S. of Jacksmith Bay 2,2158 ft. elevation (NE. Twin, 1948)	P. 272 Vol. II Alaska 2nd ed.	59 24	116.9 ✓	161 40	497.7 ✓	NA 1927	Triangulation	1948				9103
SW. TWIN MTN.	The lower of two high peaks (2198 ft.) (SW. Twin, 1948)	"	59 23	1093.3 ✓	161 41	383.4 ✓	"	Triangulation	1948				9103

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. 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.

16—51696-1 U. S. GOVERNMENT PRINTING OFFICE

Photogrammetry

Adjusted Positions

MAP T-5779 PROJECT NO. Ph-41 (49)S SCALE OF MAP 1:20,000 SCALE FACTOR 1

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
SW TWIN		NA	59-23-35.328	1093.3 (763.5)			
1948	277	1927	161-41-24.285	383.4 (563.9)			
NE TWIN			59-24-03.778	116.9 (1739.8)			
1948	277	"	161-40-31.542	497.7 (449.1)			
TWIN AZ. MK.			59-25-35.661	1103.6 (753.2)			
1948	269	"	161-47-56.164	885.9 (60.5)			
LOW CONICAL			59-24-56.873	1760.0 (96.8)			
HILL, 1948	277	"	161-42-49.771	785.4 (161.4)			
TWIN			59-23-05.419	167.7 (1689.1)			
1948	261	"	161-44-04.207	66.4 (880.9)			
BEND 2			59-25-45.055	1394.3 (462.5)			
1948	261	"	161-51-18.523	292.2 (654.2)			
JACKSMITH 3			59-28-26.284	813.4 (1043.4)			
1948	260	"	161-47-36.448	574.0 (370.9)			
BEND 2			59-25-998.7	1015.3 (841.4)	+16.6		
Sub. Sta. 1949		"	161-51-186.0	176.6 (769.8)	- 9.4		
TWIN AZ. MK.			59-25-1111.8	1128.3 (728.4)	+16.5		
Sub. Sta. 1948		"	161-47-852.4	843.1 (103.3)	- 9.3		
			Plotted by:	N. S. Schultz			
			Checked by:	S. G. Blankenbaker			

1 FT. = .3048006 METER

COMPUTED BY: L. C. Lande DATE 9-14-53 CHECKED BY: N. S. Schultz DATE 9-15-53

M-2388-12

Summary to Accompany T-5779

Project Ph-41(49), Kuskokwim Bay and River, has two sections: Ph-41(S) consists of twelve topographic maps, extending from Platinum (59° 00') to Kwinhagak (59° 45'); and Ph-41(N), twenty-two planimetric maps, extending from Kwinhagak to the vicinity of Bethel (60° 52-1/2').

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Review Report
Topographic Map T-5779
26 April 1955

61. General:

No field inspection photographs were available during review. Much of the MHWL was changed in order to be in agreement with measurements given on pricking cards or Forms 524.

62. Comparison with Registered Surveys:

T-3399 1:40,000, 1913

Survey T-5779 supersedes the older survey for charting purposes.

63. Comparison with Maps of Other Agencies:

USGS Goodnews Bay 1:250,000, 1951 (Reconn.)

The two maps are in general agreement; but, because of the small scale of the quadrangle no detailed comparison is possible.

64. Comparison with Contemporary Hydrographic Surveys:

There is no contemporary survey. The latest survey is H-3569 1:60,000, 1913, Goodnews Bay to Kwinhagak.

65. Comparison with Nautical Charts:

9103 1:200,000 1916. Corr. Oct. 1950

The present survey supersedes the charted shoreline, planimetry, and contours.

66. Accuracy:

This map complies with project instructions and meets the National Standards of Accuracy.

Reviewed by:

Lena T. Stevens

APPROVED:

Chief, Review Section Photogrammetry Division	Chief, Nautical Chart Branch Charts Division
Chief, Photogrammetry Division	Chief, Coastal Surveys Division

GEOGRAPHIC NAMES

Survey No. T-5779

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
CRIPPLE CREEK										1
FIGURE FOUR MOUNTAIN										2
JACKSMITH BAY										3
JACKSMITH CREEK										4
KUSKOKWIM BAY										5
NE. TWIN MOUNTAIN										6
SW. TWIN MOUNTAIN										7
										8
										9
										10
					Names approved 4-27-55 a.d.w.					11
										12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

NOTES TO THE HYDROGRAPHER

The following topographic stations were established in the field:

Station	Identified on Photo No.
ARCH, 1949	48-0-385
DUST, 1949	48-0-388
VOLT, 1949	48-0-382

No photo-hydro stations were selected.

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T- 5779

1. Projection and grids ✓ 2. Title ✓ 3. Manuscript numbers ✓ 4. Manuscript size ✓

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ✓ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ✓ 7. Photo hydro stations ✓ 8. Bench marks —

9. Plotting of sextant fixes — 10. Photogrammetric plot report ✓ 11. Detail points —

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ✓ 13. Low-water line ✓ 14. Rocks, shoals, etc. ✓ 15. Bridges — 16. Aids to navigation — 17. Landmarks ✓ 18. Other alongshore physical features ✓ 19. Other alongshore cultural features —

PHYSICAL FEATURES

20. Water features ✓ 21. Natural ground cover — 22. Planetable contours — 23. Stereoscopic instrument contours — 24. Contours in general ✓ 25. Spot elevations ✓ 26. Other physical features ✓

CULTURAL FEATURES

27. Roads — 28. Buildings — 29. Railroads — 30. Other cultural features —

BOUNDARIES

31. Boundary lines — 32. Public land lines —

MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. Discrepancy overlay — 37. Descriptive Report ✓ 38. Field inspection photographs ✓ 39. Forms ✓

40. Orin N. Dalby
Reviewer

Supervisor, Review Section or Unit

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

Supervisor

43. Remarks:

M-2623-12

Review Report
Topographic Map T-5779
26 April 1955

61. General:

No field inspection photographs were available during review. Much of the MHWL was changed in order to be in agreement with measurements given on pricking cards or Forms 524.

62. Comparison with Registered Surveys:

T-3399 1:40,000, 1913

Survey T-5779 supersedes the older survey for charting purposes.

63. Comparison with Maps of Other Agencies:

USGS Goodnews Bay 1:250,000, 1951 (Reconn.)

The two maps are in general agreement; but, because of the small scale of the quadrangle no detailed comparison is possible.

64. Comparison with Contemporary Hydrographic Surveys:

There is no contemporary survey. The latest survey is H-3569 1:60,000, 1913, Goodnews Bay to Kwinhagak.

65. Comparison with Nautical Charts:

9103 1:200,000 1916 Corr. Oct. 1950

The present survey supersedes the charted shoreline, planimetry, and contours.

66. Accuracy:

This map complies with project instructions and meets the National Standards of Accuracy.

Reviewed by:

Lena T. Stevens

Lena T. Stevens

APPROVED:

L C Lounde
Chief, Review Section
Photogrammetry Division

Mak B Ricketts
Chief, Nautical Chart Branch
Charts Division

Chief, Photogrammetry Division

Chief, Coastal Surveys Division

NAUTICAL CHARTS BRANCH

SURVEY NO. T-5779

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
1958	9103	L.S.S.	~~Before~~ After Verification and Review JMA
			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.