

T-12331

Original

T-12331

FORM C&GS-504	
U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey <u>Shoreline (Photogrammetric)</u>	
Class. No. Field No. <u>FINAL</u>	Office No. <u>T-12331</u>
<u>Field edited map</u> <u>Edition # 1</u>	
LOCALITY	
State	<u>Alaska</u>
General locality	<u>Kamishak Bay, Cook Inlet</u>
Locality	<u>Fortification Bluff</u>
<u>1967 - 1972</u>	
CHIEF OF PARTY	
<u>J. Bull, RADM, Director, Atlantic Marine Center</u>	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

T - 12331

PROJECT NO. (II):

PH-6301

FIELD OFFICE (III):

None

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center Norfolk, Virginia

OFFICER-IN-CHARGE

J. Bull, RADM, Director

INSTRUCTIONS DATED (II) (III):

OFFICE	March 18, 1965	Part I
OFFICE	February 10, 1966	Supplement I
OFFICE	May 5, 1967	Supplement II
OFFICE	December 27, 1967	Supplement III

METHOD OF COMPILATION (III):

Wild B-8 Plotter

MANUSCRIPT SCALE (III):

1:20,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:10,000 pantographed to 1:20,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

11/76

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III):

MHW

~~EXCEPT AS FOLLOWS:~~

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

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

REFERENCE STATION (III):

STEP, 1913 ✓

LAT.:

LONG.:

59° 26' 05.831" (180.1m) ✓

153° 45' 45.080 (710.7m) ✓

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

1,985,489.87 ft. x = 544 211.61 ft.

Alaska ✓

5 ✓

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.

②

DESCRIPTIVE REPORT - DATA RECORD

T-1233/

FIELD INSPECTION BY (II): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of Photography July 1967		
PROJECTION AND GRIDS RULED BY (IV): A. Bethea		DATE 10/30/67
PROJECTION AND GRIDS CHECKED BY (IV): L. F. Van Scoy		DATE 10/30/67
CONTROL PLOTTED BY (III): J. Steinberg		DATE 12/12/67
CONTROL CHECKED BY (III): A. L. Shands		DATE 12/12/67
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): P. Dempsey		DATE Nov. 1967
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY A. L. Shands	DATE 12/22/67
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): A. L. Shands		DATE 01/03/68
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. E. Smith		DATE 03/01/68
REMARKS: Field edit: Emerson G. Wood June 1972		

(5)

SUMMARY

T-12331 is one of 40 shoreline maps comprising Job PH-6301 (Part I) compiled for use in contemporary hydrographic survey and nautical charting operations.

Field work, prior to compilation, consisted of the recovery and identification of horizontal control.

Compilation was by Wild B-8 stereoplotter, using 1:30,000 scale color photography. Cronaflex positives and ozalids of the manuscript were forwarded for the use of the field editor and the preparation of the hydrographer's boat sheets. Accompanying these were specially prepared ratio photographs to aid in the location of hydrographic signals.

Final edit was accomplished during June 1972

Final review was accomplished at the Rockville Office in March 1976

A cronaflex positive copy of the map and a Descriptive Report will be registered in the NOS Archives.

T-12331

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore Area for Hydro	December 1967	
Field edit applied	Aug. 1973	

FIELD INSPECTION REPORT
Project PH-6301
T-12331

There was no field inspection prior to compilation.

PHOTOGRAMMETRIC PLOT REPORT

Job PH-6301
Kamishak Bay, Alaska

January 22, 1968

21. Area Covered

This report covers the northern part of Kamishak Bay, Alaska, consisting of thirteen (13) 1:20,000 scale map manuscripts -- T-12315 thru T-12319, T-12326 thru T-12331, T-12334 and T-12335, and six (6) 1:10,000 scale map manuscripts -- T-12320 thru T-12325.

22. Method

Analytic aerotriangulation methods were used to bridge strips 1, 2 and 3 at 1:60,000 scale using premarked and field identified control. Numerous tie points were located to control strips 41, 42 and 43, which were bridged by stereoplanigraph.

The attached sketch of strips bridged shows the placement of triangulation used in the final strip adjustments. Closures to control are shown on the IBM readouts along with all the bridge points.

23. Adequacy of Control

Horizontal control was adequate for bridging strips 1, 2 and 3. Strips 41, 42 and 43 were bridged using tie points and are adequate. The premarked paneling at Station OIL, 1913 was removed prior to photography and could not be identified. Station TENDER, 1967 fell off of model and was not used. SKIN, 1967, Subpoint A and Subpoint B, were too poor to read and were not used in the adjustment.

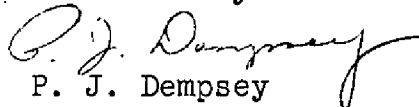
24. Supplemental Data

Vertical control needed for the adjustment was taken from USGS quadrangles.

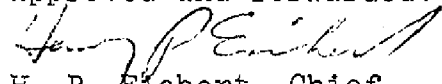
25. Photography

The definition and quality of the RC-9 and RC-8 photography were good. Ratio prints have been ordered to compilation scale.

Submitted by:


P. J. Dempsey

Approved and forwarded:


H. P. Eichert, Chief
Aerotriangulation Section

(10)

COMPILATION REPORT
T-12331

31. DELINEATION:

The Wild B-8 was used.

There was no field inspection.

Photography was adequate.

The 1967 "M" photography was considered to be more adequate for hydro support data than the 1962 "W" photography; also the shoreline pass points were difficult and in most cases impossible to transfer from the 1967 photos to the 1962 photos.

32. CONTROL:

See Preliminary Bridge Report.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

Drainage was delineated from office interpretation of the photos.

35. SHORELINE AND ALONGSHORE DETAILS:

Shoreline and alongshore details were shown from office interpretation of the photographs.

The Mean Lower Low water line was shown from office interpretation of the photographs.

36. OFFSHORE DETAILS:

No statement.

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

Junctions are in agreement with T-12330 to the west and T-12327 to the north. There are no contemporary surveys to the south or east.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with USGS Quadrangle, ILLIAMNA (B-3), ALASKA, scale 1:63,360, dated 1954.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with USC&GS Chart No. 8554, scale 1:200,000, 9th edition, dated May 10, 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None

ITEMS TO BE CARRIED FORWARD:

None

Approved:

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

Submitted:

A. L. Shands
A. L. Shands
Cartographic Technician
Feb. 1968

FIELD EDIT REPORTS

Lower Cook Inlet, Alaska

OPR-429 FA-72

June-August 1972

MAPS

T-12320	T-12325
T-12321	T-12326
T-12323	T-12327
T-12324	T-12331

FIELD EDIT REPORTS

Lower Cook Inlet, Alaska

OPR-429

June-August 1972

INTRODUCTION

Field edit reports are attached for the following maps:

T-12320	T-12325
T-12321	T-12326
T-12323	T-12327
T-12324	<u>T-12331</u>

Field photographs and copies of the field edit ozalids were taken into the field. The mean high water line was verified by visual inspection of the shoreline and ozalids in the field. Sextant fixes were plotted on boat sheets FA-10-6-72 and FA-20-2-72. The hydrographic location was then compared with the photogrammetric position. Height data for all rocks and ledges is either written directly on the ozalid or entered in the field edit notebook along with position data, in which case the notebook and page number are referenced on the ozalid.

Notes have been made in violet on the field photographs and have been cross-referenced on the field edit ozalids by photograph number. All times are based on 135° W. meridian.

Compilation of the maps is good. Several discrepancies in the MLLW line were noted in Iliamna Bay, apparently as a result of uplifting from the 1964 earthquake. It is recommended that the maps be revised in accordance with notes on the photographs and in the field edit notebook before acceptance as advance manuscripts. Field inspection of these maps is complete.

Approved and Forwarded:

R. H. Houlder
R. H. Houlder
Captain, NOAA

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FIELD EDIT REPORT

Map T-12331

Ursus Cove, Alaska

June 1972

Field edit of Map T-12331 was done by LT (jg) Emerson G. Wood in June 1972. Inspection was done from a small boat and on foot when fixes on land were required.

METHOD

Field photographs and a copy of the field edit ozalid were examined in the field. The mean high water line was verified by visual comparison of the beach area and the ozalid in the field, and by measured distances from MHWL to photo-identifiable objects. Isolated rocks and ledges were located by sextant fixes and plotted on boat sheet FA-20-2-72. Heights of rocks, reefs, and high points of ledges are noted on the photograph, in the field edit notebook, or directly on the ozalid.

Photograph 67m-868 is the only referenced one on Map T-12331. All times are based on 135°W. meridian.

ADEQUACY OF COMPILATION

Compilation of this map is very good. Hydrographic location of features compares well to photogrammetric location. Note is made of the following item:

An extensive shoal was located, which is not shown on the ozalid. It is located near the limits of photo coverage and extends from Lat. 59° 26'12"N to Lat. 59°26'40"N, and from Long. 153°39'50"W. to Long 153° 41'18"W. Reference is made to hydrographic records for boat sheet FA-20-2-72.

Field inspection of this map is complete.

RECOMMENDATIONS

It is recommended that the map be revised in accordance with the notes on the photographs and in the field edit notebook, and that the map be accepted as an advance manuscript.

Respectfully submitted,

DE Wood
for Emerson G. Wood
LT (jg), NOAA

PHOTOGRAMMETRIC OFFICE REVIEW

T. 12331

1. PROJECTION AND GRIDS RES	2. TITLE RES	3. MANUSCRIPT NUMBERS RES	4. MANUSCRIPT SIZE RES
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RES	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) X		7. PHOTO HYDRO STATIONS X
8. BENCH MARKS X	9. PLOTTING OF SEXTANT FIXES X	10. PHOTOGRAMMETRIC PLOT REPORT Bridge (W.O.)	11. DETAIL POINTS Wild B-8
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE RES	13. LOW-WATER LINE RES	14. ROCKS, SHOALS, ETC. RES	15. BRIDGES X
16. AIDS TO NAVIGATION X	17. LANDMARKS X	18. OTHER ALONGSHORE PHYSICAL FEATURES RES	19. OTHER ALONGSHORE CULTURAL FEATURES X
PHYSICAL FEATURES			
20. WATER FEATURES RES	21. NATURAL GROUND COVER RES		22. PLANETABLE CONTOURS X
23. STEREOSCOPIC INSTRUMENT CONTOURS X	24. CONTOURS IN GENERAL X	25. SPOT ELEVATIONS X	26. OTHER PHYSICAL FEATURES RES
CULTURAL FEATURES			
27. ROADS X	28. BUILDINGS X	29. RAILROADS X	30. OTHER CULTURAL FEATURES X
BOUNDARIES			
31. BOUNDARY LINES X		32. PUBLIC LAND LINES X	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES RES	34. JUNCTIONS RES		35. LEGIBILITY OF THE MANUSCRIPT RES
36. DISCREPANCY OVERLAY X	37. DESCRIPTIVE REPORT RES	38. FIELD INSPECTION PHOTOGRAPHS X	39. FORMS RES
40. REVIEWER <i>R. E. Smith</i> R. E. Smith		SUPERVISOR, REVIEW SECTION OR UNIT A. C. Rauck, Jr.	
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>R. R. White</i> <i>F. P. Margiotta</i>		SUPERVISOR <i>A. C. Rauck, Jr.</i>	
43. REMARKS <i>Field edit applied from Field edit 02alid and field photo 67M(P)868</i>			

Review Report T-12331
Shoreline Manuscript
March 1976

61. General Statement

Refer to the Hydrographic Survey Review Report for H-9327, Item 4, paragraph F, "Condition of Survey" concerning fixes not plotted on the Class I manuscript. The Photogrammetric Survey field records were examined by the hydrographic survey reviewer and found to contain fixes that had not been plotted on either of the contemporary surveys. Statements in the field edit reports indicated that the fixes were plotted on the boat sheet, resulting in the objects being left off the photogrammetric manuscript. During final photogrammetric review, the fixes in the field editor's sketchbook (form 274) for this sheet were plotted. Many of the fixes were designated as "edge of foul". These have not been shown and many foul and ledge limits have been removed from the Class I manuscript because they conflicted with the hydrographer's findings. See paragraph 64 of this report.

62. Comparison with Registered Topographic Surveys

T-3420 1:40,000 March 1910

This survey is superseded by the new map.

63. Comparison with Maps of Other Agencies

Refer to the Compilation Report, Item 46.

64. Comparison with Contemporary Hydrographic Surveys

H-9327 1:20,000 June-August 1972

H-9072 1:20,000 1969-1971

Comparison was made with the final reviewed hydrographic surveys H-9327 and H-9072. Differences exist between the two surveys in the elevation of objects, this is due to the use of actual tide readings by the hydrographer. In addition to this difference, the elevation of some objects have not been transferred to the hydro survey, even though an elevation is shown on the Class I manuscript.

Cartographic comparison prints are furnished with this report for identification of the various elevations not shown on the hydro survey. The Chief, Hydrographic Survey Branch, will be notified by memorandum.

65. Comparison with Nautical Charts

Chart No. 8554, 1:200,000 scale, 13th edition, May 1974.

66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy and complies with Bureau requirements.

Submitted by,

J.B. Phillips

J. B. Phillips

Approved: *S. D. Blankinbale*

for Ark. Heywood

Chief, Photogrammetric Branch

James Collins
Chief, Coastal Mapping Division

59027'

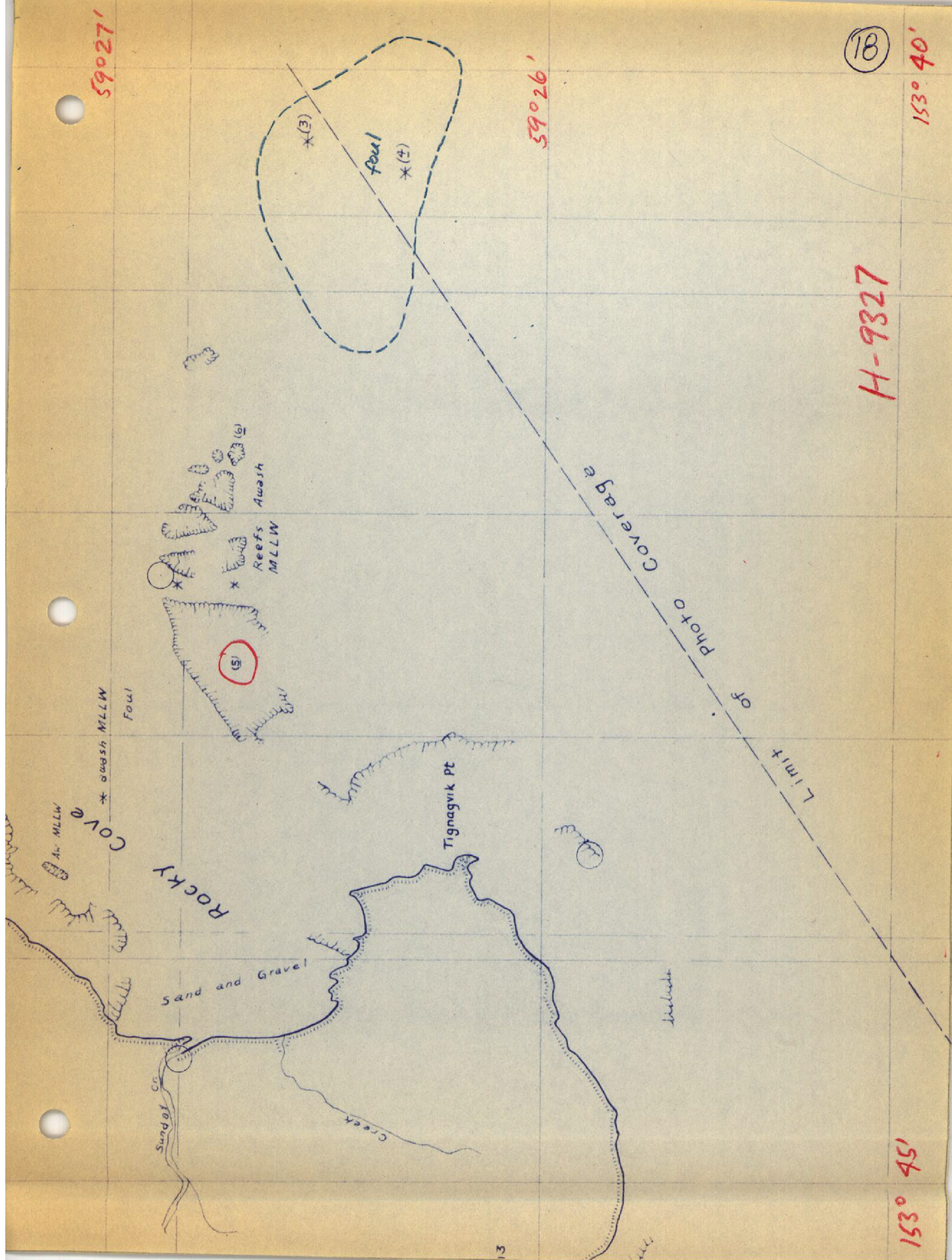
(18)

153° 40'

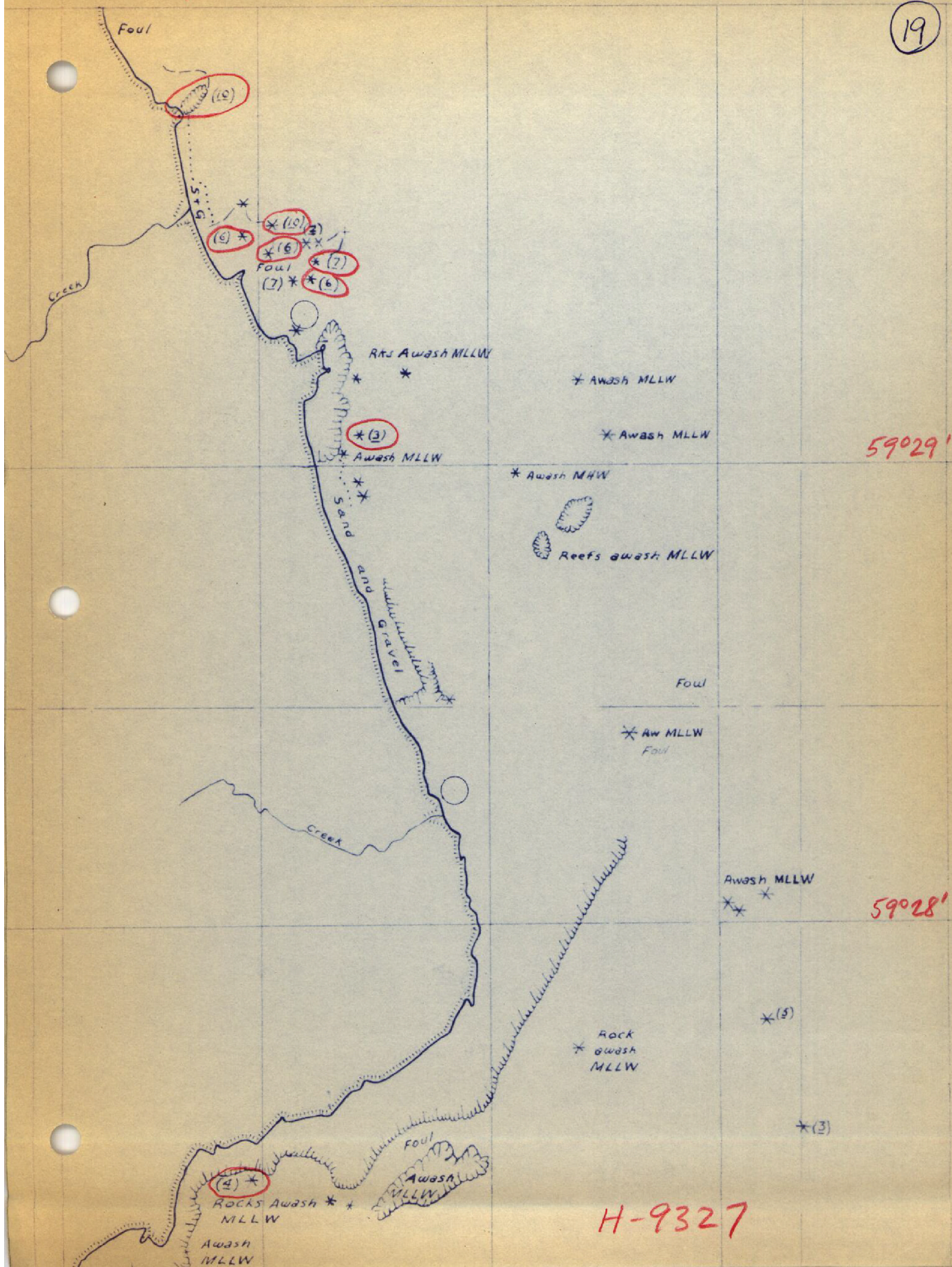
59026'

H-9327

153° 45'



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H-9327



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U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SURVEY
Rockville, Md. 20852

TO: Chief, Hydrographic Survey Branch

FROM: S. G. Blankenbaker
Quality Control Group

SUBJECT: Photogrammetric Review, PH-6301 (Part I), Manuscript T-12331,
Comparison with H-9327, 1:20,000 scale, June-August 1972

In making a comparison of T-12331 with the final reviewed hydrographic smooth sheet, it was noted that several elevations of objects had been omitted from the hydrographic survey. Refer to the Cartographic Comparison Prints which are submitted with the Photogrammetric Review Report for T-12331.

May 26, 1967

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6301 (Cook Inlet, Alaska)

T-12331

Fortification Bluff

Kamishak Bay

Rocky Cove

Step Mountain

Sunday Creek

Tignagvik Point

Approved by:

A. Joseph Wraight
A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Frank W. Pickett
Cartographic Technician

SCALE FACTOR

None.

[illegible]