

T-13156

T-13156

NOAA FORM 76-35 (3-76)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. T-13156	Edition No. 1
Job No. PH-6709	
Map Classification FINAL FIELD EDITED MAP.	
Type of Survey SHORELINE	
LOCALITY	
State Alaska	
General Locality Shelikof Strait	
Locality Douglas Reef South of	
19 ₆₇ TO 19 ₇₅	
REGISTRY IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, AMC Norfolk, Virginia OFFICER-IN-CHARGE Jeffrey G. Carlen		SURVEY TP. <u>T-13156</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final Field</u> <u>Edited Map</u> JOB PH. <u>6709</u>	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, AMC Norfolk, Virginia OFFICER-IN-CHARGE Jeffrey G. Carlen		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation 09/26/67 Compilation 05/06/68 Compilation 11/06/70		Premarking February 10, 1967	
II. DATUMS			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)	
3. MAP PROJECTION Polyconic		4. GRID(S) STATE Alaska ZONE 5	
5. SCALE 1:20,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY		I. Saperstein Apr 1968 None	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Calcomp. CHECKED BY		A. Bethea Jun 1968 L. Van Scoy Jun 1968	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:25,000 CHECKED BY		F. Margiotta - L. Neterer Sep-Oct 68-70 C. Bishop - R. White Sep-Oct 68-70 NA NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth drafted CONTOURS BY CHECKED BY SCALE: 1:20,000 HYDRO SUPPORT DATA BY CHECKED BY		F. Margiotta Oct 1970 C. Bishop Nov 1970 NA NA F. Margiotta Oct 1976 C. Bishop Nov 1970	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		C. Bishop Nov 1970	
6. APPLICATION OF FIELD EDIT DATA BY		B. Barge & L. Graves Dec 1971	
7. COMPILATION SECTION REVIEW BY		C. Blood & F. Margiotta Jun 1976	
8. FINAL REVIEW BY		C. Blood Jun 1976	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		C. Blood Jan 1987	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		J. Byrd Apr 1987	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		P. Dempsey July 1987 E.A. DAUGHERTY Aug-87	

T-13156
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 9"M" FL = 88.26mm Wild RC 8"L" FL = 152.21mm		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				Alaska	<input type="checkbox"/> DAYLIGHT
MERIDIAN				150th	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
67M(P) 950-952	7/11/67	09:40	1:60,000	1.2 ft below MLLW	
67L(C) 4094-4098	7/10/67	09:36	1:40,000	2.1 ft below MLLW	

REMARKS

The 1:60,000 scale photography was used for compilation.
 The 1:40,000 scale photography is 80% endlapped, alternate photography were processed

2. SOURCE OF MEAN HIGH-WATER LINE:

for hydro support.

The mean high-water line was compiled from the above listed photographs.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

The mean lower low water line was compiled from the above listed photographs.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
PH-6301 Part I T-12930	no survey	No survey	T-13155

REMARKS

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-13156
HISTORY OF FIELD OPERATIONSI. ☒ FIELD ~~INSPECTION~~ OPERATION ☐ FIELD EDIT OPERATION
Premarking

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	G. Short	Jun 1967
2. HORIZONTAL CONTROL	RECOVERED BY G. Boyack	Jun 1967
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY G. Boyack	Jun 1967
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION	
	<input type="checkbox"/> COMPLETE BY	
	<input type="checkbox"/> SPECIFIC NAMES ONLY	
	<input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
paneled		NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
67M950	DARK 1908		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

1 Form 152

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

T-13156

HISTORY OF FIELD OPERATIONS

1. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Lanier	Jun 1971
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA NA NA
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None None None
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	N. Franklin
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
None		NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details)			
67L(C) 4364			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED			
None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS			
None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)			
1 Field edit ozalid			
1 Field edit report			

NOAA FORM 76-36C
(3-72)

T-13156

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Alderman	Aug 1975
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA NA NA
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None None None
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	G. Kosinski
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
None		NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details) 67L 4096 67L(C) 4070			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED none			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS NONE			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) 1 Field edit ozalid 1 Field edit report			

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONT-13156
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete, pending field edit.	Oct 1970	Class III manuscript	12/17/70	12/16/70
Partial field edit applied.	Dec 1971	Class I manuscript	None	None
Field edit applied. Compilation complete.	May 1976	Class I manuscript	05/14/75	08/04/76
Final Review	Jan 1987	Final Map	June 1987	

II. LANDMARKS AND AIDS TO NAVIGATION None

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 76-40 ~~567~~ SUBMITTED BY FIELD PARTIES.
 3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
 ACCOUNT FOR EXCEPTIONS:

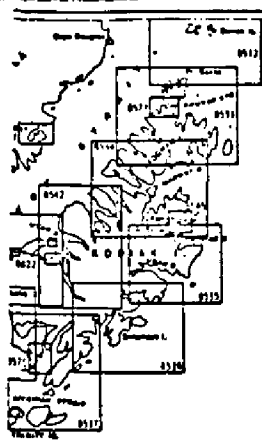
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

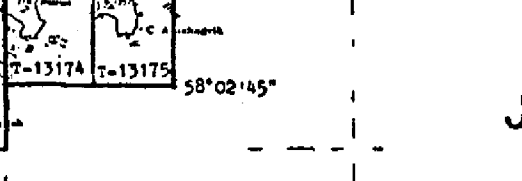
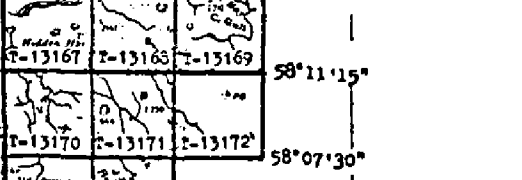
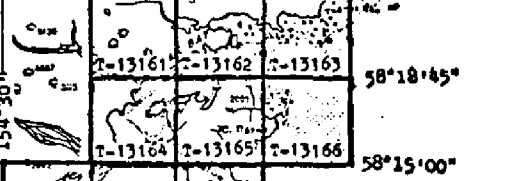
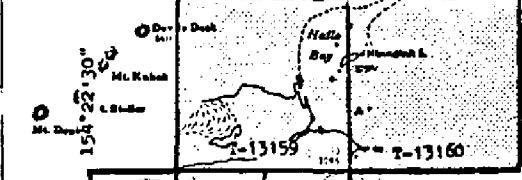
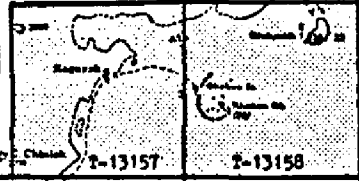
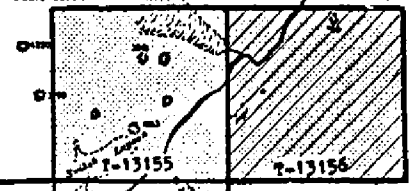
OFFICIAL MILEAGE
FOR COST ACCOUNTS

Sheet No.	Sq. Mi.
T-13155	9
T-13156	3
T-13157	10
T-13158	2
T-13159	6
T-13160	2
T-13161	2
T-13162	2
T-13163	2
T-13164	2
T-13165	2
T-13166	2
T-13167	2
T-13168	2
T-13169	2
T-13170	2
T-13171	2
T-13172	2
T-13173	2
T-13174	2
T-13175	2
T-13176	2
T-13177	2
TOTAL	103



For detailed information
and large scale charts.

CAPE DOUGLAS
JOINS PH-6301 (Part 1)



JOB PH-6709
SHELIKOF STRAIT,
ALASKA
SHORELINE MAPPING
SCALE 1:10,000 & 1:20,000

8556

PROHIBITED AREA
(see chart 8508)
The area in and about Womens Bay
is a Defense Sea Area. No vessels or
aircraft are permitted to enter without
prior approval of the Commanding Officer,
Naval Station, Sitka, Alaska.

CONTINUED ON CHART 8508

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-13156

This 1:20,000 scale final shoreline map is one of twenty-three maps designated as PH-6709, Shelikof Strait, Cook Inlet, Alaska. Six maps are 1:20,000 scale and seventeen maps are 1:10,000 scale.

The purpose of this map was to provide contemporary shoreline in support of hydrographic operations and to aid in chart revision.

Field work prior to compilation during the 1967 field season consisted of recovery and premarking of horizontal control for aerotriangulation.

This map area was photographed in July 1967 with the RC-9 "M" camera at 1:60,000 scale using panchromatic film. The map area was also photographed in July 1967 with the RC-8 "L" camera at 1:40,000 scale using color film.

Aerotriangulation was completed at the Washington Office in April 1968.

This map was compiled at the Norfolk Office in November 1970.

Field edit was acquired for T-13156 during the 1971 and 1975 field seasons. Field edit was applied at AMC in June 1976.

Final review was accomplished at the Atlantic Marine Center in January 1987. A Chart Maintenance Print was prepared and forwarded to the Marine Charts Branch.

This Descriptive Report contains all pertinent information used to compile this Final Field Edited Map. The original base manuscript and all related data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

T-13156

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and premarking of the horizontal control necessary for the aerotriangulation of the project.

Photogrammetric Plot Report
Job PH-6709
Shelikof Strait, Alaska

April 1968

21. Area Covered

The area of this report covers the western shore of Shelikof Strait, Alaska, and consists of seven (7) 1:20,000 scale T-sheets, T-13154 thru T-13160 and seventeen (17) 1:10,000 scale T-sheets T-13161 thru T-13177.

22. Method

Strips 1, 2, 3 and 4 were bridged by analytic aerotriangulation methods. Strips 211, 212, 222, 223, 232, 233, 241 and 281 were bridged by stereoplanigraph using tie points located by the analytic bridge. Strips 224, 231, 242 and 243 were not bridged, but sufficient points have been located to set the models. Photographs 4576 and 4578 on sheet T-13174 are to be compiled graphically using points to be transferred from the color plates to the ratio prints. This is a water model and may be difficult to set.

The attached sketch of the strips bridged shows the placement of triangulation used in the final strip adjustments. Closures to control are shown for each strip on the IBM readout, along with all bridge points on Alaska Zone 5 plane coordinates.

23. Adequacy of Control

Horizontal control is adequate to control strips 1, 2, 3 and 4. All color photographs that were bridged used tie points and horizontal control. This was adequate. All horizontal control was premarked with the exception of DAKAVAK, 1967 and KINAK, 1967. RC-9 photography on strip 2 was flown before the above stations were panelled. KINAK, 1967 was transferred on the PUG from strip 4 to strip 2. DAKAVAK, 1967 was outside the limits of strip 1 and 4 and it was impossible to transfer the point from the color photography due to a poor area. DAKAVAK, 1967 was therefore omitted from the adjustment of strip 2.

DOUGLAS, 1964 could not be held in the adjustment of strip 3. The station is at the extreme edge of the photograph where film distortion is greatest.

24. Supplemental Data

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

25. Photography


The definition and quality of the RC-9 "M" and RC-8 "L" color photography were fair and good respectively. Coverage was adequate to compile all sheets.

Ratio prints have been ordered from the 1:40,000 scale color photographs on black and white base that cover the 1:20,000 scale sheets. Ratio prints have also been ordered from the 1:30,000 scale color photographs on black and white base that cover the 1:10,000 scale sheets.

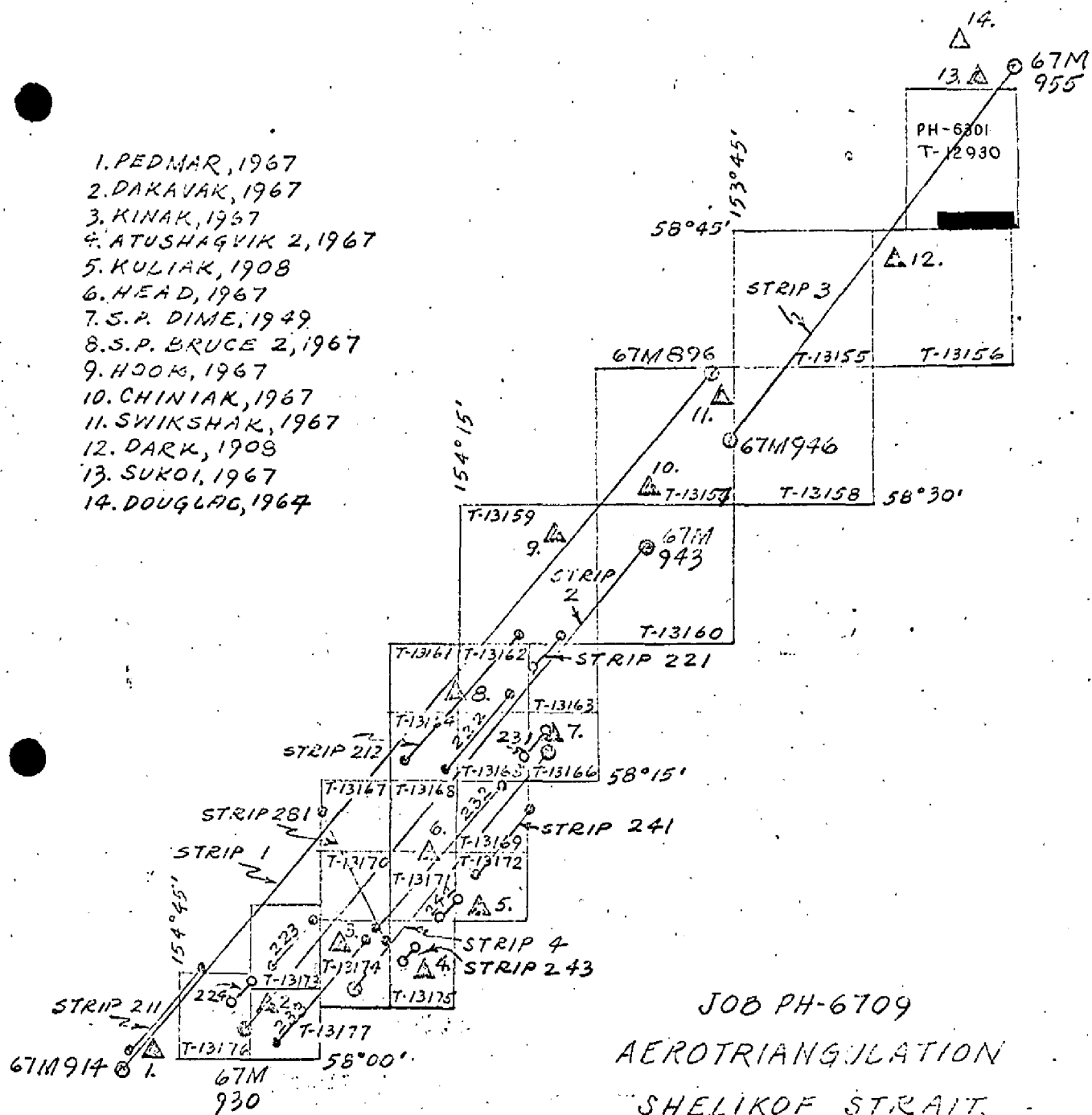
Respectively submitted,


I. I. Saperstein

Approved and forwarded


Chief, Aerotriangulation Section

1. PEDMAR, 1967
2. DAKAVAK, 1967
3. KINAK, 1967
4. ATUSHAGVIK 2, 1967
5. KULIAK, 1908
6. HEAD, 1967
7. S.P. DIME, 1949
8. S.P. BRUCE 2, 1967
9. HOOK, 1967
10. CHINIAK, 1967
11. SWIKSHAK, 1967
12. DARK, 1908
13. SUKOI, 1967
14. DOUGLAC, 1967



JOB PH-6709
AEROTRIANGULATION
SHELIKOF STRAIT,
ALASKA

- △ Control used in adjustment
- Strips bridged analytically
- Strips bridged by Stereoplanigraph
- Strips not bridged; models to be sealed using points from analytic bridge.



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
 NATIONAL OCEAN SERVICE
 CHARTING AND GEODETIC SERVICES
 Rockville, Md. 20852

March 10, 1983

N/CG2321:GF

TO: N/CG232 - George M. Ball
 N/MOA22 - A. Y. Bryson

FROM: N/CG23 - Lawrence W. Fritz *L. W. Fritz*

SUBJECT: Geodetic Datum, Jobs PH-6709 and CM-7607 Part ^I II

A horizontal datum conflict occurs between these jobs. This conflict was detected during an evaluation of 1980 field data developed for PH-6709. A complete review of project data for both jobs has been conducted to seek the proper course of action required to resolve this matter.

1. Review. The examination revealed the following:

- a. Maps comprising each job are Class I and unreviewed.
- b. Copies of unreviewed maps have been furnished in support of hydrography by N/MOA221.
- c. N/CG232 has not released any data to N/CG22.
- d. Aerotriangulation of each job checked well within the specified standards.
- e. The National Geodetic Survey, in 1976, readjusted segments of the control network within the region of Alaska covered by these photogrammetric jobs. This action affected all geodetic stations used in these projects and resulted in an adjustment of approximately $-.02$ second in latitude and $+1.84$ second in longitude to the stations.
- f. The datum conflict occurs because base compilation of PH-6709 is based on aerotriangulated positions determined using geodetic station positions prior to the 1976 adjustment and CM-7607 compilation is controlled using post-1976 adjusted geodetic positions.
- g. Conflict between jobs went unnoticed during aerotriangulation and compilation. Two reasons probably caused this; aerotriangulation operations were accomplished independently and meet standards, and the shoreline at the junction between jobs is oriented in an east-west direction and the major datum shift occurs in longitude.



- h. Map T-13176(PH-6709) represents conflicting data. This map depicts detail compiled from photographs controlled using pre-1976 geodetic data and 1980 field information based on adjusted geodetic data.
- i. Users of PH-6709 data must be alerted about the geodetic adjustment. Users will be required to effect a datum adjustment before this data is used in the production of charts, other maps or surveys, etc.

2. Actions Required. Because of the 1976 geodetic adjustment, the following actions are required and to be taken immediately:

- a. Make appropriate report documentation for each map of PH-6709 indicating that map detail is based on geodetic control positions prior to the 1976 adjustment and add this statement to each map: "The National Geodetic Survey readjusted the geodetic network in 1976. This map is based on geodetic control positions prior to the adjustment." Because CM-7607 is based on adjusted control, a map notation is not required. However, for the one map junctioning with PH-6709, report documentation addressing the datum conflict is required.
- b. Field data developed in 1980 was applied to T-13176(PH-6709). Data applied based on 1980 field geodetic positions are to be removed. This will generally include geodetic stations and rocks. Data applied based on map detail/photo image points are adequate and will remain in the photogrammetric records, e.g.; area limits, items graphically applied, items intersected using radial plot principals.
- c. Field data and records acquired that are based on 1980 geodetic field control and affecting T-13176 are to be transferred to the hydrographic record for H-9887 and H-9896 through N/CG2321. It will be necessary to prepare duplicate field records to remain with photogrammetric data.
- d. A map copy of T-13176, after it is updated, will be required to complete H-9887/H-9896 and is to be routed through N/CG2321 to N/CG24.

3. Miscellaneous. A request has been made by N/CG24 for an updated copy of T-13176 before 4/20/83. If compliance with this request cannot be met, please inform this office immediately. Completion schedule for final review is pending and will be addressed by subsequent instructions.

cc:
N/CG2342
N/CG24
N/MOA221 ✓

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	PH-6709	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETIC DATUM		ORIGINATING ACTIVITY		REMARKS	
					COORDINATES IN FEET STATE Alaska ZONE 5	N.A. 1927	Division, AMC, Norfolk, VA	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE		
T-13156										
			ADJ	50100	X=	ϕ	58 42 56.665	1753.3	103.2	
			I.B.M.		Y=	λ	153 27 42.165	678.7	287.1	
			Field geo.		X=	ϕ	58 43 55.101	1704.9	151.6	
			positions		Y=	λ	153 24 59.741	961.2	004.2	
					X=	ϕ				
					Y=	λ				
					X=	ϕ				
					Y=	λ				
					X=	ϕ				
					Y=	λ				
					X=	ϕ				
					Y=	λ				
					X=	ϕ				
					Y=	λ				
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					Y=	λ				
					X=	ϕ				
					Y=	λ				
					X=	ϕ				
					Y=	λ				
					X=	ϕ				
					Y=	λ				
					X=	ϕ				
					Y=	λ				
COMPUTED BY	A. C. Rauck, Jr.				DATE	5/3/68	COMPUTATION CHECKED BY	J. R. Minton	DATE	5/7/68
LISTED BY					DATE		LISTING CHECKED BY		DATE	
HAND PLOTTING BY					DATE		HAND PLOTTING CHECKED BY		DATE	

COMPILATION REPORT

T-13156

31. DELINEATION:

Compilation was by the Wild B-8 plotter, using office interpretation of the 1:60,000 scale photography. Points common to the 1:40,000 scale photo-hydro support photography were dropped at the time of compilation.

Quality of the 1:60,000 scale "M" photography was poor.

Photography was adequate.

32. CONTROL:

See Photogrammetric Plot Report dated April 1968.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours were inapplicable. Drainage was delineated with the Wild B-8 from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line was delineated with the Wild B-8 from office interpretation of the photographs.

36. OFFSHORE DETAILS:

Ledge limits were delineated from office interpretation of the photographs.

37. LANDMARKS AND AIDS:

There were no charted nonfloating aids or landmarks and none were noted during stereoscopic instrument compilation.

38. CONTROL FOR FUTURE SURVEY:

None.

T-13156

39. JUNCTIONS:

A satisfactory junctions was made to the north with T-12930 and to the west with T-13155. There were no contemporary surveys to the east or south.

40. HORIZONTAL AND VERTICAL ACCURACY:

No Statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with USGS Quadrangles AFOGNAK (C-5) and (C-6) ALASKA, scale 1:63,360 dated 1951.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with Chart 8556, scale 1:350,000, 3rd edition, dated October 23, 1967.

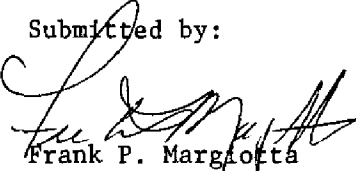
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:


Frank P. Margotta
Cartographic Aid
October 27, 1970

Approved and forwarded:

Charles E. Blood
for

Albert C. Rauck, Jr.
Chief, Coastal Mapping Division

ADDENDUM TO THE COMPILATION REPORT

T-13156

FIELD EDIT

Field edit was adequate.

GEOGRAPHIC NAMES

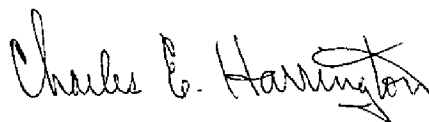
FINAL NAME SHEET

PH-6709 (Shelikof Strait, Alaska)

T-13156

Alaska Peninsula
Shelikof Strait

Approved:



Charles E. Harrington
Chief Geographer
Nautical Charting Division
Charting and Geodetic Services

FIELD EDIT REPORT

OPR-478 1971

T-12930 & T-13156

SHELIKOF STRAIT, ALASKA

NOAA SHIP RAINIER

ROGER F. LANIER
CAPT., NOAA
COMMANDING

METHODS

The field edit was started on field edit ozalid T-12930, where the northern project limit, Lat. $58^{\circ}51'N$, joins Cape Douglas, Alaska. Additions and deletions in this area are indicated and cross referenced on the field edit ozalids T-12930 and T-13156, and the six photos provided.

The field edit was conducted from a small boat so as to afford easy landing. Values given for distances from the MHWL and heights of rocks were estimated. Three-point sextant fixes were taken at prominent ledges and offlying rocks for comparison with the manuscript compilation.

ADEQUACY OF COMPILATION:

In general the manuscript compilation was very complete. The three-point sextant fixes that were taken, compared favorably with the compilation. Any discrepancies are indicated on the field edit ozalids.

RECOMMENDATIONS

T-13156

Joining field edit ozalid T-12930 to the south and continuing along the Alaska Peninsula coast is field edit ozalid T-13156. This sheet contains a rocky shoal area in Lat. $58^{\circ}44.0'N$, Long. $153^{\circ}12.0'W$. The NE extremity of this shoal is defined by a rock awash at Detached Position No. 9011, as indicated on photo 67L4092, Lat. $58^{\circ}44.60'N$, Long. $153^{\circ}21.10'W$. This area broadens and extends south as indicated on photo 67L4092. This area is to be considered hazardous to navigation as it is foul with both submerged rocks and rocks awash.

The foreshore area from the north end of the manuscript is a boulder beach as indicated on photo 67L(C)4364. This beach continues south as boulder and pebble until Lat. $58^{\circ}43.3'N$, where the coastline becomes ledge with small pebble beaches and isolated rocks, as shown on photo 67L(C)-4364. No detached rocks were seen in Lat. $58^{\circ}42.5'N$, Long. $153^{\circ}26.5'W$. The three rocks indicated at this position on T-13156 are three points on a continuous ledge, as shown on photo 67L(C)4364.

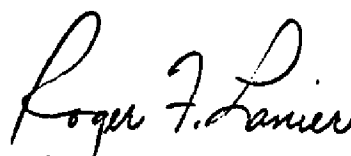
The time reference for the entire field edit was 135°W. The field edit was discontinued in Lat. $58^{\circ}42.5'N$, Long. $153^{\circ}26.8'W$.

Respectfully Submitted,

Nelson M. Franklin
Nelson M. Franklin
Ens. NOAA

APPROVAL SHEET

The Field Edit Report is approved as submitted.

A handwritten signature in cursive script, reading "Roger F. Lanier". The signature is written in dark ink and is positioned above the printed name and title.

R. F. Lanier

CAFT., NOAA

LIST OF DETACHED POSITIONS

Julian Day 180 June 29, 1971 Time Ref. 135°W Long.

Pos.#	Time	Description	Computed Lat. & Long.
9001	0910	Point ledge, bare 4'	58°49'52.4"N, 153°21'15.5"W
9002	0923	Point ledge, bare 2'	58°49'53.2"N, 153°21'12.6"W
9003	0940	Separated ridge, bare 0.5'	58°49'45.9"N, 153°21'20.4"W
9004		Boulder, bare 20' 1110/06/15/71	58°46.9'N 153°22.6'W
9005, 9006, 9007, Rejected due to quality of control.			
9008	1212	Rock, bare 5'	58°45'50.1"N, 153°16'22.2"W
9009		Rejected due to quality of control.	
9010	1345	Large boulder, center of curved spit, bare 9'	58°45'28.5"N, 153°16'39.5"W
9011	1420	Rock, bare 10'	58°44'36.2"N, 153°21'0.8"W

FORM C&GS-152
(10-64)U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

CONTROL STATION IDENTIFICATION

STATION

DP 9011

STATE

ALASKA

COUNTY

SHELKOF STRAIT

IDENTIFIED BY

NMF

DATE

6/29/71

ACCURACY

Pos

CHIEF OF PARTY

R.F. Lonier.

MAP NUMBER

PHOTO NUMBER

674 4092 & 4094

PROJECT NUMBER

OPR-47B PH-6301

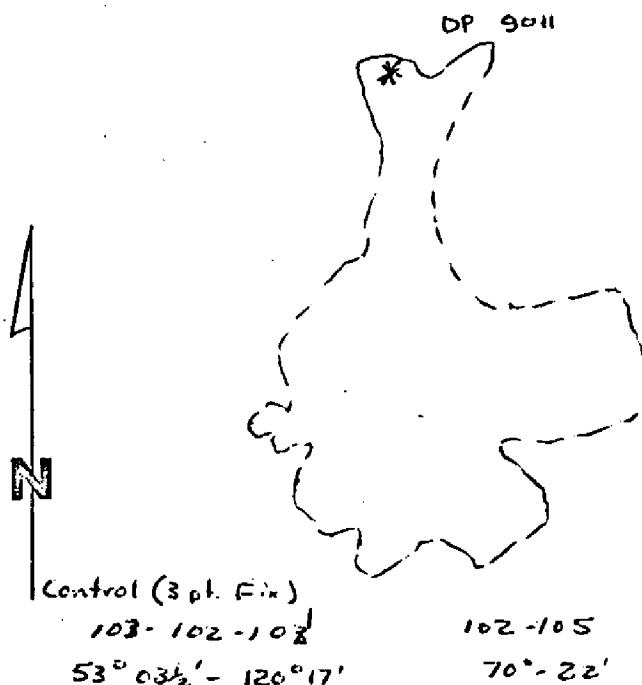
DESCRIPTION OF SUBSTITUTE STATION A

DP is the highest
rock of the shoal area
at $58^{\circ}44.6'N$, $153^{\circ}21'W$
which is south west of
Douglas REEF.

Three point Fix.

~~102-106-105~~~~62°40'-24°22'~~

SKETCH (SUBSTITUTE STATION A)



INFORMATION REQUIRED-SUBSTITUTE STATION A

INST. STATION

AZ. STATION

< TO STA.
(RIGHT)

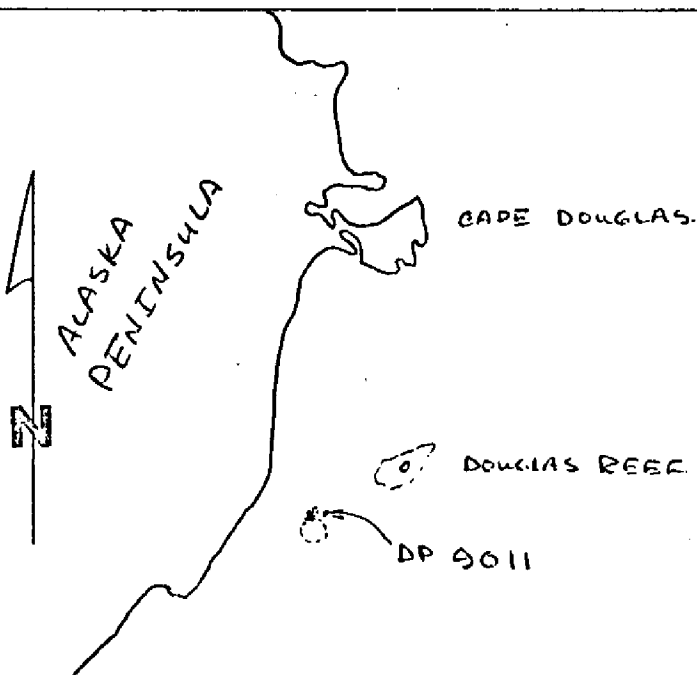
DISTANCE

FT.

M.

DESCRIPTION OF SUBSTITUTE STATION B OR
STATION IDENTIFIED DIRECT.

SKETCH (SUBSTITUTE STATION B)



INFORMATION REQUIRED-SUBSTITUTE STATION B

INST. STATION

AZ. STATION

< TO STA.
(RIGHT)

DISTANCE

FT.

M.

FIELD EDIT REPORT

Cape Iktugitak to Douglas Reef, Alaska

OPR - 478

Summer 1975

Introduction

Field edit reports are attached for the following Job PH-6709 maps:

T-13155 through T-13175, and T-13177

Manuscript T-13176 was not field edited since the survey area did not include Dakavak Bay.

Copies of the field edit ozalids were taken into the field. All notes were made on these field ozalids. The matte ratio prints were used as a last resort in the field when the field ozalid did not provide enough information. The matte ratio prints were found to be of poor quality, very grainy and lacking clarity. These photographs were also hard to handle in the field because of paper curl and stiffness. The cronapaques were of slightly better quality (in clarity and definition) than the matte ratio prints, but they still left a lot to be desired because of their graininess.

Another problem encountered with these photographs was the stage of the tide at the time of photography. Many of the rocks shown on the manuscripts could not be found on the photographs because the tide was too high in these photographs. It would be of great help to have photographs taken at a lower tidal stage.

Apparently color photographs of the area are available. However, none were furnished. Color photographs are far superior to black and white photographs in clarity and definition, and with the added feature of color, are of greater value to the field editor. It is highly recommended that color photographs be furnished in the future.

Compilation of the maps is generally good. All notes were made in violet ink on the ozalids and cronapaques, with deletions in green ink and references to hydrography in red ink. All heights of rocks were estimated by the field editor. Where required, the MHWL was located by measuring distances from photoidentifiable points, as noted on the photographs. All times are based on G.M.T.

Turbid water (due to glacial runoff) in several bays of the project area made it difficult to locate some of the rocks and shoal areas. Due to

-2-

the vast amount of area and shoreline involved, and to the fact that all hydrography was electronically controlled, it was impractical to establish visual signals to be used for field edit. Therefore, the hydrographic launches, and their electronic positioning equipment, were utilized to locate detached positions.


The dashed line symbol on the field edit ozalid was found rather confusing, since it depicts three different features: the approximate MLWL, foul limits, and ledge limits.

It is recommended that these maps be revised in accordance with the notes on the ozalids and cronapaques and on the attached sheets before acceptance as advanced manuscripts. Field inspection of these maps is complete, except as noted on the individual reports.

Respectfully Submitted:

Gregory P. Kominaki
Joanne Gulley
Lt(jg), NOAA

Approved and Forwarded:


Richard E. Alderman
CDR, NOAA
Commanding Officer,
NOAA Ship FAIRWEATHER (MSS-20)

FIELD EDIT REPORT

Map T-13156

South Of Douglas Reef, Alaska

August, 1975

Field edit of map T-13156 was done by Ens. Kosinski and Lt(jg) Gulley during August, 1975, and by personnel of the NOAA Ship RAINIER during 1971, whose work has been transferred to another field edit ozalid copy. Field inspection of the area was done at various stages of the tide by skiff and on foot.

METHOD

Photographs and a copy of the paper field edit ozalid were examined in the field. The shoreline was corrected on the photos and mylar ozalid where it was found to have changed or was in error. All field edit data and corrections are noted on the photographs, film ozalid, paper ozalid, or are included in the hydrographic records for H-9540 (OPR-478-FA-75). All times are GMT. Violet ink was used to annotate features, red ink used as reference to hydrographic records.

ADEQUACY OF COMPILATION

Compilation of this map is good. The MHWL and MLLWL were corrected when found in error. Special notes:

- The low and high water lines have changed somewhat near triangulation station DARK 1908, and changes are noted on the film ozalid and on photo 10 Jul 67L4096.
- Two rocks were found in the area of 58°42'N, 153°29'W; see hydrography H-9540 for details.
- Rock in the area of 153°27'W, 58°41.2'N was not found due to lack of sufficient low tides.
- Charted rocks near 153°28.5'W, between 58°40'N and 58°41'N were not found due to lack of sufficiently low tides.

RECOMMENDATIONS

Consistent with the above special notes, it is recommended that this map be revised in accordance with the notes on the photographs and ozalids, and that it be accepted as an advance manuscript.

REVIEW REPORT
SHORELINE

T-13156

61. GENERAL STATEMENT:

See the summary included with this Descriptive Report. The National Geodetic Survey readjusted the geodetic network in 1976. This map is based on a geodetic datum that existed prior to that adjustment.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with the following Hydrographic Surveys:

H-9210	1:20,000 scale, date of hydrography 1971.
H-9540	1:20,000 scale, dated August 1975.
H-9749	1:20,000 scale, dated September 8, 1978.

There were no conflicts.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following NOS chart: 16608, 1:80,000 scale, dated February 26, 1983, 1st edition.

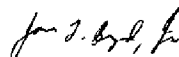
The chart compared well with this manuscript.

T-13156

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:


This map complies with the Project Instructions, and meets the requirements for National Standards of Map Accuracy.

Submitted by:



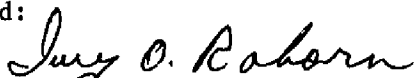
James L. Byrd, Jr.
Final Reviewer

Approved for forwarding:

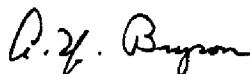


Billy H. Barnes
Chief, Quality Assurance Group, AMC

Approved:



Chief, Photogrammetric Productions Sec.



Chief, Photogrammetry Branch

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

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]