

T-13047

T-13047

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Shoreline
Job No. PH-6627 Map No. T-13047
Classification No. Final Edition No. 1
Field Edited Map

LOCALITY

State Alaska
General Locality Duncan Canal
Locality Grief Island, North of

1966 TO 1972

REGISTRY IN ARCHIVES

DATE

MAP NOT INSPECTED BY
QUALITY CONTROL OF PHOTOGRAMMETRY DIVISION
PRIOR TO REGISTRATION

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 Atlantic Marine Center, Norfolk, Virginia OFFICER-IN-CHARGE Jeffrey G. Carlen, Cdr.		SURVEY XR-T-13047 MAP EDITION NO. (1) MAP CLASS Final JOB PH. 6627	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Atlantic Marine Center, Norfolk, Virginia OFFICER-IN-CHARGE Jeffrey G. Carlen, Cdr.		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 8/16/66 (Cancelled) Office 9/06/66 (Cancelled) Office, Amendment I 10/24/66 (Cancelled) Office, Supplement I 11/11/71 (Cancelled) Office, Amendment I 12/02/71 (Cancelled) Aerotriangulation 7/20/72 Office 7/18/72		Field - Support 5/20/66 (Cancelled) Field PRE-MARKING 7/18/72	
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 type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)	
3. MAP PROJECTION Polyconic		4. GRID(S) STATE Alaska ZONE 1	
5. SCALE 1:10,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	
DATE			
1. AEROTRIANGULATION BY METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY		D. Norman 8/72	
		None	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Coradomat</u> CHECKED BY		D. Phillips 8/72	
		C. E. Blood 8/72	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY		R. R. White 8/72	
INSTRUMENT: <u>Wild B-8</u>		L. O. Neterer 8/72	
SCALE: <u>1:15,000</u>		NA	
		NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY METHOD: <u>SMOOTH DRAFTING</u> CHECKED BY		C. E. Blood 8/72	
		A. L. Shands 8/72	
SCALE: <u>1:10,000</u>		NA	
		NA	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		C. E. Blood 8/72	
		A. L. Shands 8/72	
6. APPLICATION OF FIELD EDIT DATA BY		A. L. Shands 8/72	
		W. Gilbert 10/73	
7. COMPILATION SECTION REVIEW BY		A. L. Shands 11/73	
		A. L. Shands 11/73	
8. FINAL REVIEW BY		Jim Byrd 7/80	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		Jim Byrd 10/80	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY			
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		H. D. Wolfe MAR 1992	

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-13047
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Focal Length 152.71 mm
Wild RC-8TYPES OF PHOTOGRAPHY
LEGEND

TIME REFERENCE

TIDE STAGE REFERENCE

- ☒ PREDICTED TIDES
☐ REFERENCE STATION RECORDS
☐ TIDE CONTROLLED PHOTOGRAPHY

- (C) COLOR
(P) PANCHROMATIC
(I) INFRARED

ZONE

Pacific

☒ STANDARD

MERIDIAN

120° W

☐ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
72 E(C) 3856 thru 3858	6/22/72	13:06	1:30,000	9.9 feet above MLLW

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

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

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

No mean lower low-water line was compiled.

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
No Survey	No Survey	T-13049	T-13046

REMARKS

T-13047
HISTORY OF FIELD OPERATIONSI. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. H. Houlder	5/72
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 (<i>Triangulation Stations</i>) BY LOCATED (<i>Field Methods</i>) BY IDENTIFIED BY	None None None
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <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

None

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

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*)

None

T-13047
HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION

☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	G. C. Saladin	10/72
2. HORIZONTAL CONTROL	RECOVERED BY G. C. Saladin	10/72
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
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
None

2. VERTICAL CONTROL IDENTIFIED
None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

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 ☒ NONE

6. 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 Field Edit Ozalid, T-13047

NOAA FORM 76-36D
(3-72)T-13047
RECORD OF SURVEY USEU. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete, pending field edit.	8/72	Class III Manuscript Superseded	9/72	9/72
Field edit applied, compilation complete.	10/73	Class I Manuscript	6/75	None
Final Review	7/80	Final Manuscript	12/81	

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: None3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED:

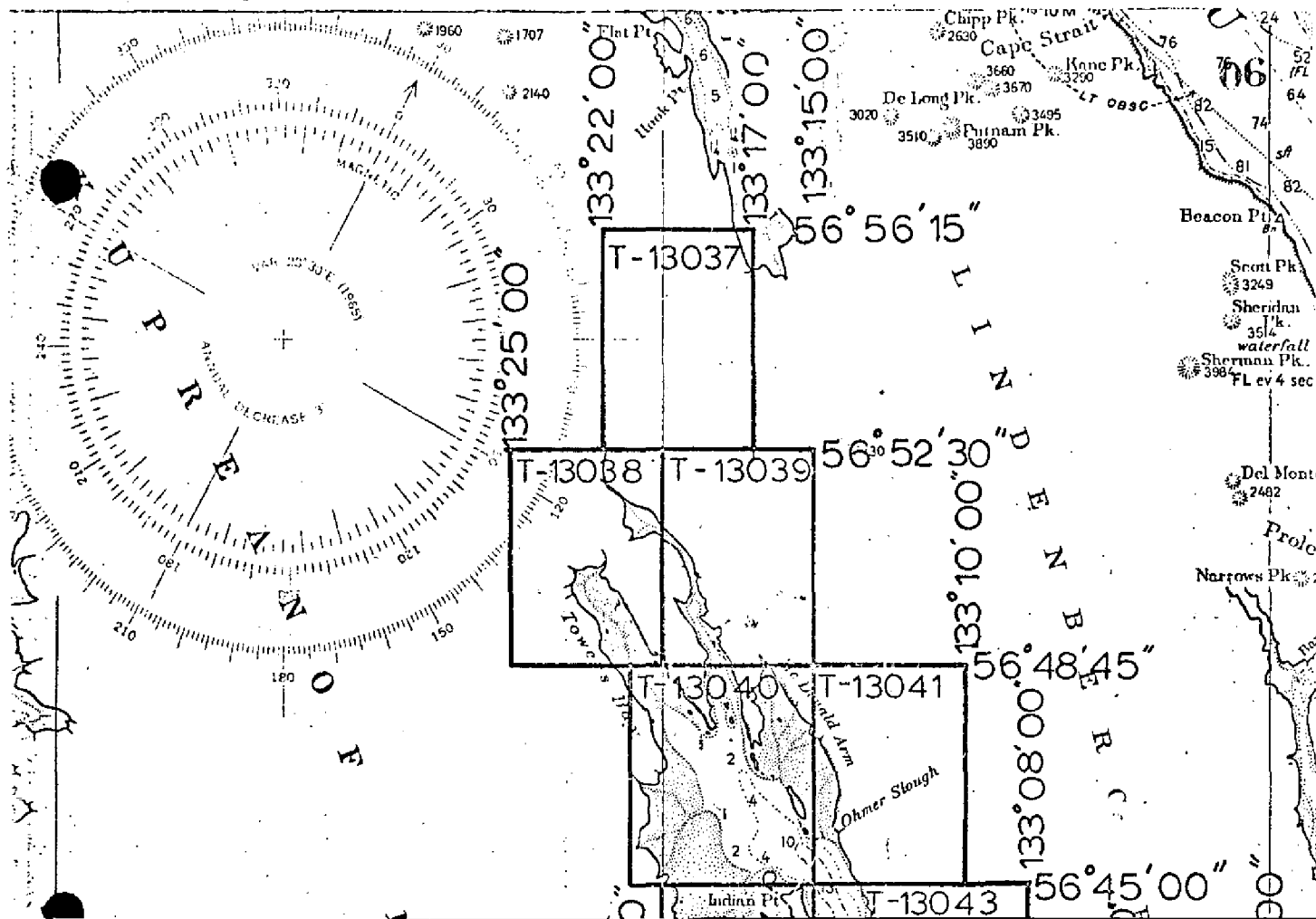
III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☐ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS 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: 12/10/81

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	



SURVEY TO ACCOMPANY
DESCRIPTIVE REPORT
T-13043, T-13045 thru T-13051

Project PH-6627 covers the entire area of Duncan Canal, Alaska from north of Towers Arm, south east to Lung Island.

There were fifteen (15) maps assigned in this project T-13037 thru T-13051 all at scale 1:10,000. The purpose of these maps was to provide contemporary shoreline data in the support of hydrographic operations and to aid in nautical chart revision.

Field work prior to compilation during the 1972 field season consisted of paneling horizontal control stations in advance of the aerial photography.

The area was flown in June 1972 with 1:50,000 scale B&W bridging photography with the "M" camera. Compilation photos were also taken with the "E" camera at 1:30,000 scale on color film.

Analytic aerotriangulation was performed at the Washington Science Center in August 1972.

The Maps T-13043, T-13045 thru T-13047 were compiled and hydro support ratios were prepared at AMC in August and September, 1972. Sheets T-13048 thru T-13051 were compiled in November and December 1971 using 1966 photography and bridge data and were revised using the June 1972 photos's in September 1972.

Field edit was completed in November 1972. It was applied to the map at AMC in October and November 1973.

Final Review was performed at AMC in January-August 1980. The original base manuscript and all pertinent data was forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

T-13047

Field inspection was limited to the recovery and identification of horizontal control for aerotriangulation.

PHOTOGRAMMETRIC PLOT REPORT

Job PH-6627

Duncan Canal, Alaska

August 1972

21. Area Covered

The entire area of Duncan Canal, Alaska, is covered by this report. The southeastern corner of the project has the coordinates of 56 30' 00" and 133 00' 00". Included in the project are T-sheets T-13037 thru T-13051.

22. Method

One strip of photography, 72-M-1086 thru 1095 at 1:50,000 scale, was bridged by analytic aerotriangulation methods. Four horizontal control stations were used in the adjustment with one station as a check. All points were drilled by the PUG method. Enough points were transferred and read to provide compilation and ratio points on four parallel strips of color photography. These strips, 72-E(C)-3830 thru 3847, 3854 thru 3862, 3912 thru 3930 and 66-L(C)-5659 thru 5661, all at 1:30,000 scale, will be used to compile the area. All points were plotted on Alaska Zone 1 coordinates using the Coradi Plotter. Ratios of the area were ordered.

23. Adequacy of Control

The control was adequate and complied with project instructions.

24. Supplemental Data

USGS topographic quadrangles were used to obtain vertical control for the bridged strip.

25. Photography

The photography was adequate as to coverage, overlap and definition.

Respectively submitted:

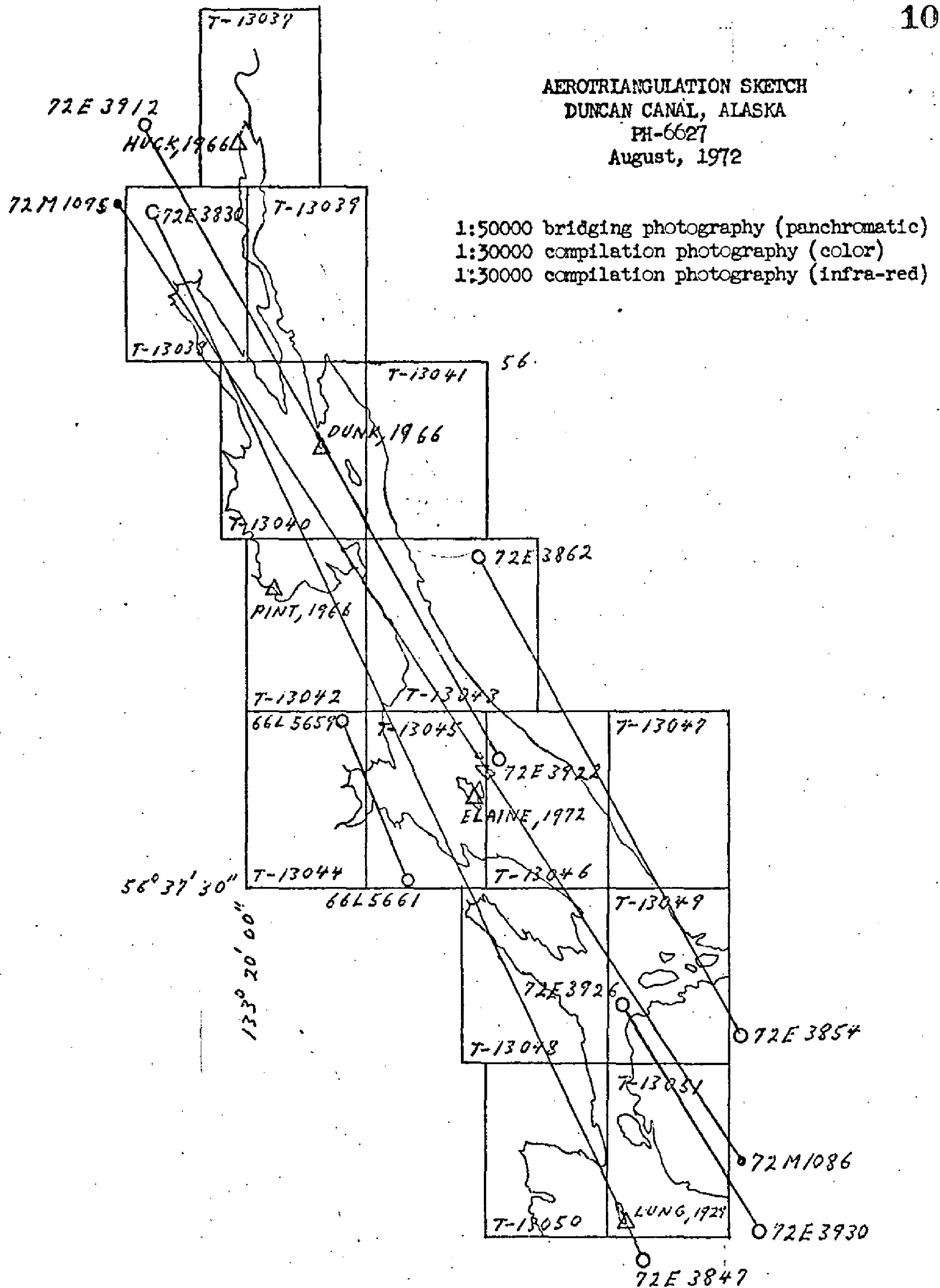
Approved and Forwarded:

John D. Perrow, Jr.
John D. Perrow, Jr.
Acting Chief
Aerotriangulation Section

Don O. Norman

Don O. Norman
Cartographer

AEROTRIANGULATION SKETCH
DUNCAN CANAL, ALASKA
PH-6627
August, 1972



COMPILATION REPORT

T-13047

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, using color photography taken June 22, 1972. The coverage was adequate.

There was no field inspection prior to compilation.

32. CONTROL:

See Photogrammetric Plot Report dated August 1972.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line and alongshore details were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS:

The field editor has been asked to verify several rocks and a ledge area delineated offshore from office interpretation of the photographs.

37. LANDMARKS AID AIDS:

There are no landmarks or aids within the limits of this manuscript.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

There is no contemporary survey to the north or east. Junctions have been made with T-13046 to the west and T-13049 to the south.

40. HORIZONTAL AND VERTICAL ACCURACY:

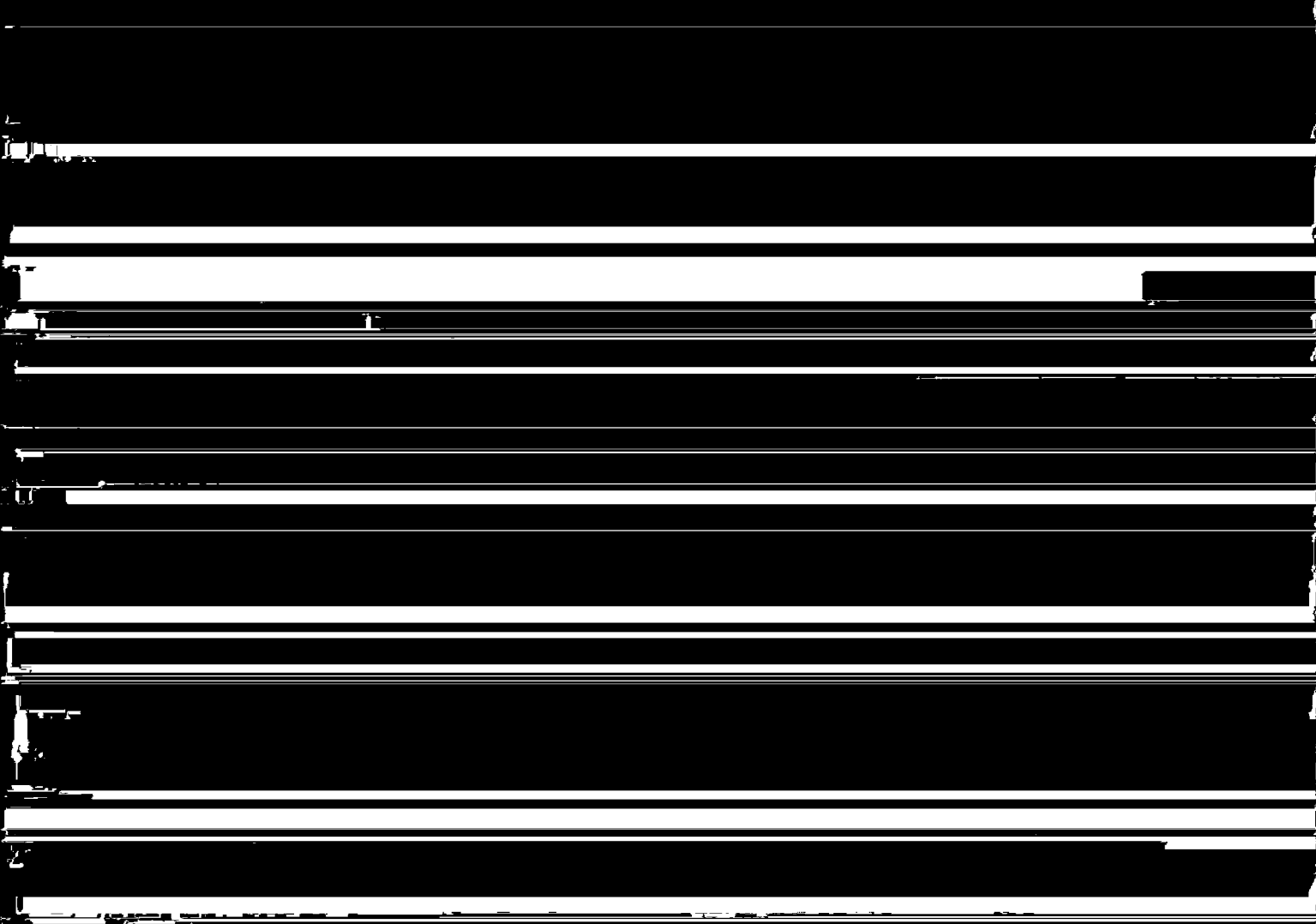
No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the following USGS Quadrangle: PETERSBURG (C-4), ALASKA, scale 1:63,360, dated 1951.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following National Ocean Survey Chart: 8201, scale 1:217,828, 11th edition



T-13047

FIELD EDIT

Field edit was adequate. All questions asked were answered.

7/31/80

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6627 (Duncan Canal, Alaska)

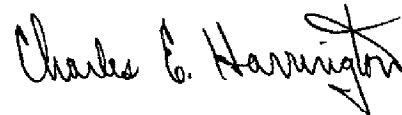
T-13047

Duncan Canal

Kupreanof Island

Lindenberg Peninsula

Approved by

Charles E. Harrington
Chief Geographer, C3x5

PHOTOGRAMMETRIC OFFICE REVIEW

T- 13047

1. PROJECTION AND GRIDS ALS	2. TITLE ALS	3. MANUSCRIPT NUMBERS ALS	4. MANUSCRIPT SIZE ALS
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY ALS	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA		7. PHOTO HYDRO STATIONS NA
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES NA	10. PHOTOGRAMMETRIC PLOT REPORT ALS	11. DETAIL POINTS ALS
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE ALS	13. LOW-WATER LINE ALS	14. ROCKS, SHOALS, ETC. ALS	15. BRIDGES ALS
16. AIDS TO NAVIGATION ALS	17. LANDMARKS ALS	18. OTHER ALONGSHORE PHYSICAL FEATURES ALS	19. OTHER ALONGSHORE CULTURAL FEATURES ALS
PHYSICAL FEATURES			
20. WATER FEATURES ALS	21. NATURAL GROUND COVER NA		22. PLANETABLE CONTOURS NA
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	26. OTHER PHYSICAL FEATURES ALS
CULTURAL FEATURES			
27. ROADS ALS	28. BUILDINGS ALS	29. RAILROADS ALS	30. OTHER CULTURAL FEATURES ALS
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES ALS	34. JUNCTIONS ALS		35. LEGIBILITY OF THE MANUSCRIPT ALS
36. DISCREPANCY OVERLAY ALS	37. DESCRIPTIVE REPORT ALS	38. FIELD INSPECTION PHOTOGRAPHS NA	39. FORMS ALS
40. REVIEWER A. L. Shands		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr. 8/25/72	
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 Willie Gilbert FOR 10/31/73 A. L. Shands		SUPERVISOR Albert C. Rauck, Jr.	
Reviewer A. L. Shands		11/01/73	
43. REMARKS Field edit applied from Field Edit Ozalid T-13047.			

FIELD EDIT REPORTS
DUNCAN CANAL
SOUTHEAST ALASKA
OPR 448
SEPTEMBER-NOVEMBER 1972

CDR Gerald C. Saladin
NOAA Ship DAVIDSON

FIELD EDIT REPORT
DUNCAN CANAL
SOUTHEAST ALASKA
OPR 448
SEPTEMBER-NOVEMBER 1972

INTRODUCTION

Field edit reports are attached for the following maps:

T-13043	Rookery Island
T-13045	Big Castle Island
T-13046	Cloverleaf Island
T-13047	North of Grief Island
T-13048	Little Duncan Bay
T-13049	Fair Island
T-13050	Kah Sheets Island
T-13051	Lung Island

Field photographs and copies of the field edit ozalids were taken into the field. The mean higher high water line was verified by visual inspection of the shoreline and ozalids in the field. Isolated rocks, ledge limits and some shoreline were located with three-point sextant fixes.

Notes have been made on the appropriate photographs and have been cross-referenced on the field edit ozalids by photograph number. All times are based on 105°W meridian.

Approved,



Gerald C. Saladin
CDR/NOAA

Commanding Officer, NOAA Ship DAVIDSON

FIELD EDIT REPORT
MAP T-13047
NORTH OF GRIEF ISLAND
SOUTHEAST ALASKA

ADEQUACY OF COMPILATION

The compilation was good in all areas. In most areas the photographic resolution was poor, therefore, the determination of the shoreline was made by sextant fixes and distances to triangulation stations.

RECOMMENDATIONS

None.

AIDS TO NAVIGATION

None.

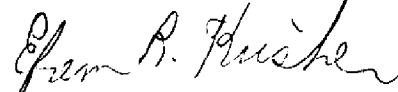
GEOGRAPHIC NAMES

No geographic names investigation was made.

MISCELLANEOUS

All triangulation was searched for and a Form 526 submitted for each. All work was accomplished on 25 October 1972. Time zone is 105°W.

Respectfully submitted,



Efrem R. Krisher
LT/NOAA

REVIEW REPORT T-13047

SHORELINE

July, 1980

61. GENERAL STATEMENT

See Summary, included in this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not available

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a verified copy of H-9333. T-13047 shows rock Lat 56°37.8' Long 133°03.3' with ht (7) where H-9333 shows ht (13).

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with chart 17360, scale 1:217,828, 23rd ed., June 16/79. No significant differences were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by: Jim Byrd

Jim Byrd
Final Reviewer

Approved for forwarding:

Albert C. Ranch Jr. ACT.
Chief Photogrammetric Branch, AMC

Approved:

Chief Photogrammetric Branch

Chief Photogrammetry Division