

T-13042

T-13042

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-13042 ...
Classification No. Final Edition No. 1
Field Edited Map

LOCALITY

State Alaska
General Locality Duncan Canal
Locality Duncan Canal - Tidal Flat

19 66 TO 19 74

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 ☒ ORIGINAL ☐ RESURVEY ☐ REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Atlantic Marine Center, Norfolk, VA OFFICER-IN-CHARGE Jeffrey G. Carlen, Cdr.		SURVEY XX T-13042 MAP EDITION NO. (1) MAP CLASS Final JOB PH-6627	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Atlantic Marine Center, Norfolk, VA OFFICER-IN-CHARGE Jeffrey G. Carlen, Cdr.		LAST PRECEDING MAP EDITION TYPE OF SURVEY ☐ ORIGINAL ☐ RESURVEY ☐ REVISED JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation Office 8/16/66 (Cancelled) Office 9/06/66 (Cancelled) Office, Amend. I 10/24/66 (Cancelled) Office, Supp. I 11/11/71 (Cancelled) Office, Amend. I 12/02/71 (Cancelled) Aerotriangulation Office 7/20/72 Office 7/18/72		FIELD - SUPPORT 5/20/66 (CANCELLED) FIELD - PRE-MARKING 7/18/72	
II. DATUMS			
1. HORIZONTAL: ☒ 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: ☒ MEAN HIGH-WATER ☐ MEAN LOW-WATER ☐ MEAN LOWER LOW-WATER ☐ 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: Analytic LANDMARKS AND AIDS BY		D. Norman	8/72
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY		D. Phillips	8/72
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1:15,000 CONTOURS BY CHECKED BY		R. R. White	8/72
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: SMOOTH DRAFTING CONTOURS BY CHECKED BY SCALE: 1:10,000 HYDRO SUPPORT DATA BY CHECKED BY		L. O. Neterer	8/72
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		NA	NA
6. APPLICATION OF FIELD EDIT DATA BY		R. R. White	9/72
7. COMPILATION SECTION REVIEW BY		A. L. Shands	9/72
8. FINAL REVIEW BY		NA	NA
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		R. R. White	9/72
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		A. L. Shands	9/72
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		A. L. Shands	9/72
12. MAP REGISTERED - COASTAL SURVEY SECTION BY		J. D. Roderick	5/75
13. MAP REGISTERED - COASTAL SURVEY SECTION BY		F. P. Margiotta	5/75
14. MAP REGISTERED - COASTAL SURVEY SECTION BY		F. P. Margiotta	5/75
15. MAP REGISTERED - COASTAL SURVEY SECTION BY		Jim Byrd	5/80
16. MAP REGISTERED - COASTAL SURVEY SECTION BY		Jim Byrd	10/80
17. MAP REGISTERED - COASTAL SURVEY SECTION BY		H. D. White	10/80
18. MAP REGISTERED - COASTAL SURVEY SECTION BY		Chief, Photo Map and Imagery Section	MAR 1982

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-13042
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Focal Length 152.71 MM Wild RC-8		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE	☒ STANDARD ☐ DAYLIGHT
☒ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPHY				Pacific	
				MERIDIAN	
				120° W	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
72 E (C) 3836 and 3837	6/22/72	12:50	1:30,000	10.2 ft. 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
T-13040	T-13043	T-13044	No Survey

REMARKS

T-13042
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 A. N. Bodner
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 ☐ COMPLETE ☐ SPECIFIC NAMES ONLY BY ☒ 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)

1 Form 152 for Station PINT, 1966

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-13042
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	M. H. Fleming	10/74
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 J. D. Sarb None
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	J. D. Sarb
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)

72 E(C) 3836

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 Field Edit Ozalid T-13042

Position Abstract included in Edit Report

Field Edit Ratio 72 E(C) 3836

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONT-13042
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.	9/72	Class III Manuscript Superseded	9/72	9/72
Field edit applied. Compilation complete.	5/75	Class I Manuscript	6/75	None
Final Review	4/80	Final	12/81	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		Nov. 1, 1977	Two Landmarks for Charts

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: Nov. 1, 1977
 3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

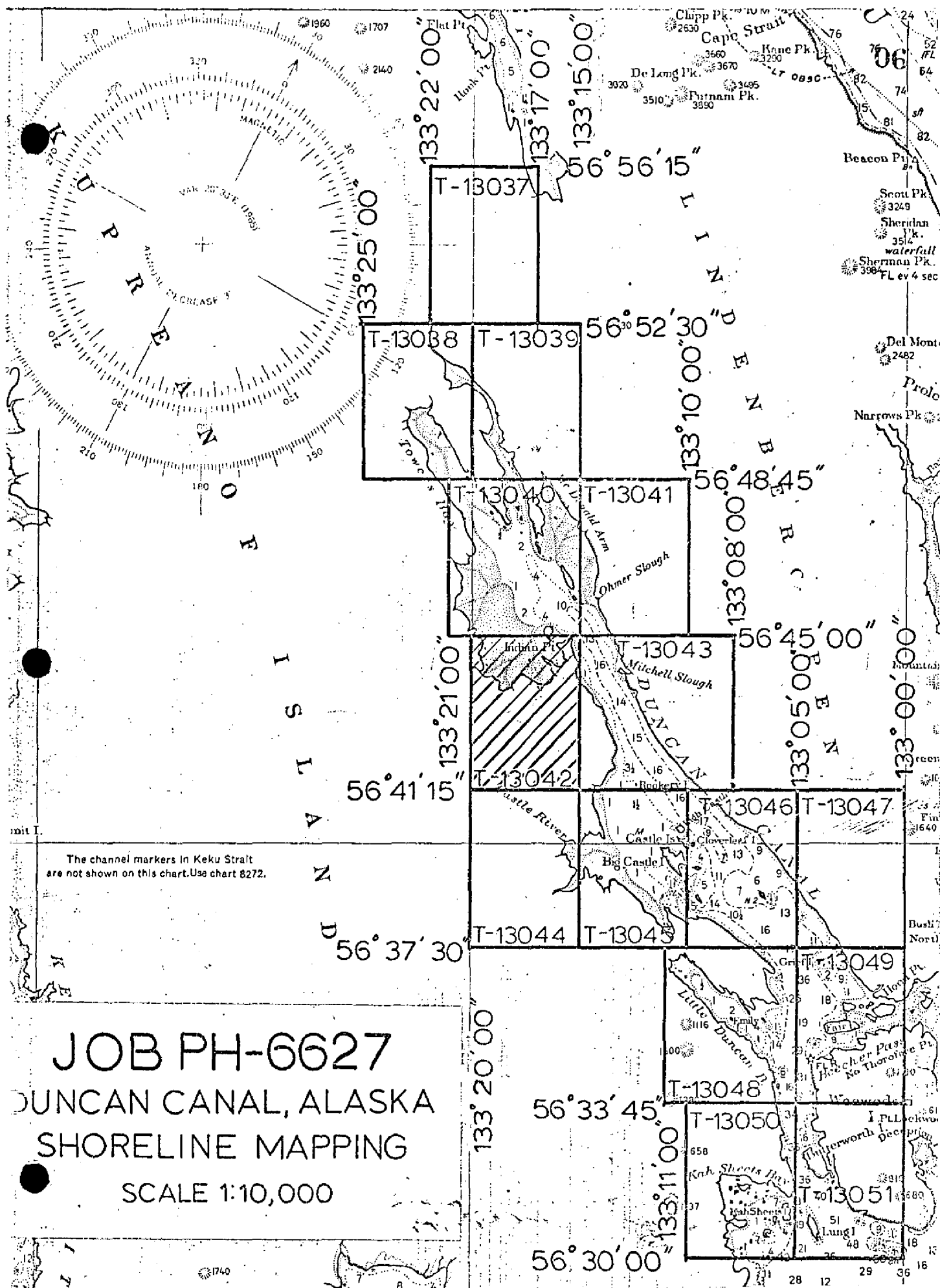
III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS 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 ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORTS
T13037-13042 and T-13044

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

There were fifteen (15) maps assigned in this project T13037 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 were compiled and hydro support ratios were prepared at AMC in September and October 1972.

Field edit was completed in October 1974. It was applied to the map at AMC in June 1975.

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-13042

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:

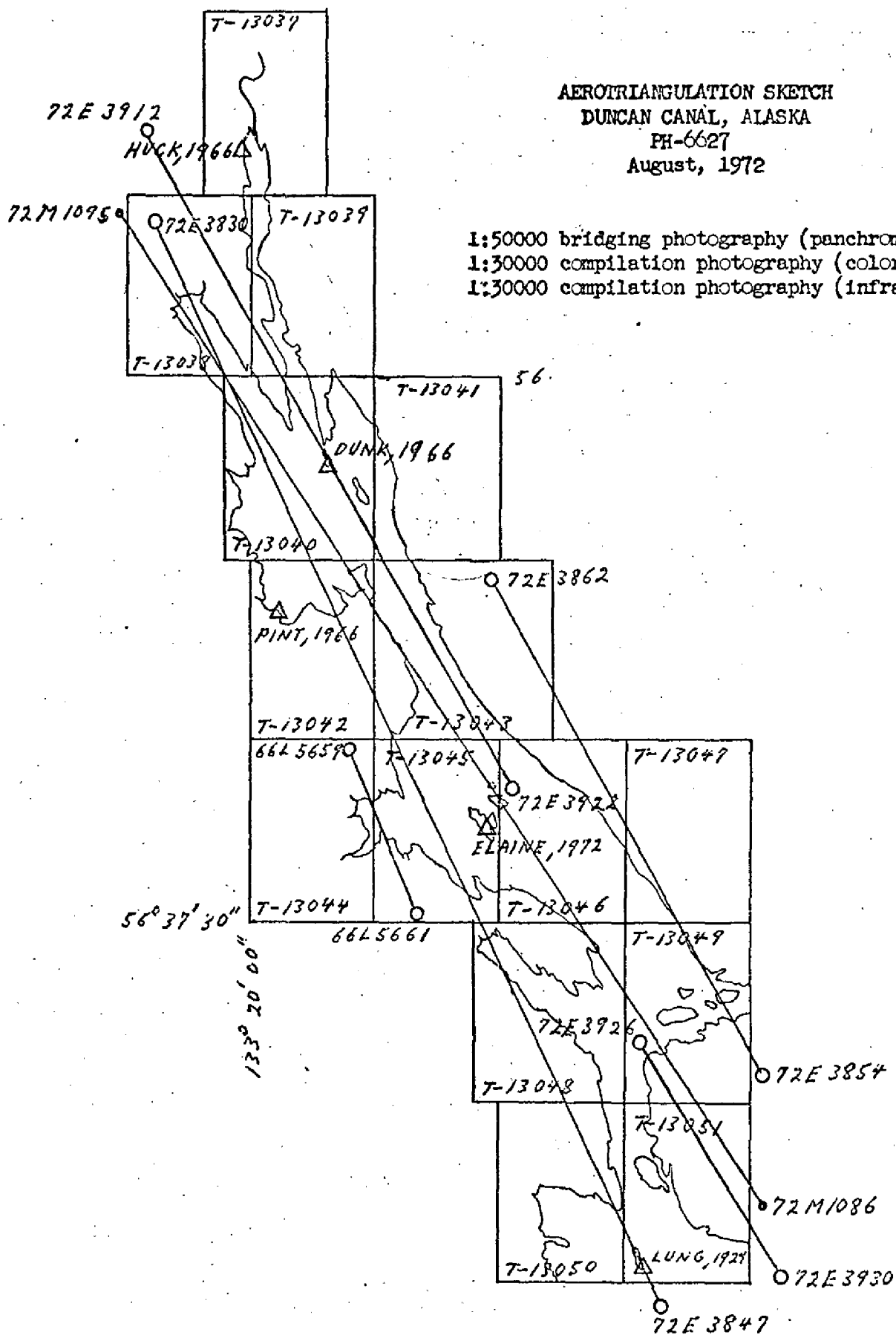
John D. Perrow, Jr.
John D. Perrow, Jr.
Acting Chief
Aerotriangulation Section

Don O. Norman

Don O. Norman
Cartographer

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

1:50000 bridging photography (panchromatic)
1:30000 compilation photography (color)
1:30000 compilation photography (infra-red)



COMPILATION REPORT

T-13042

31. DELINEATION:

Compilation was by the Wild B-8 method. The photography was good as to definition and coverage.

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 compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

Because the stage of tide of the photographs is between MHW and MLLW, only the mean high water line was compiled using the Wild B-8. All foreshore data will be furnished by the field editor and/or hydrographer.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

Compilation office prepared work copies of Forms 76-40 were forwarded to the field editor for verification, location and/or deletion.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junctions are in agreement with T-13040 to the north, T-13043 to the east, and T-13044 to the south. There is no contemporary survey to the west.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

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

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with USC&GS Chart 8201, scale 1:217,828, 11th edition, dated March 4, 1963, revised July 20, 1964.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Albert C. Rauck, Jr. FOR
Richard R. White
Cartographic Technician
September 1, 1972

Approved:

Albert C. Rauck, Jr.
Albert C. Rauck, Jr.
Chief, Coastal Mapping Section, AMC

ADDENDUM TO THE COMPILATION REPORT

T-13042

FIELD EDIT

Field edit was adequate.

7/31/80

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-- 6627 (Duncan Canal, Alaska)

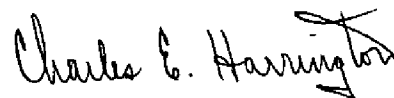
T-13042

Duncan Canal

Indian Point

Kupreanof Island

Approved by:

Charles E. Harrington
Chief Geographer, C3x5

FORM C&GS-1002 (9-66)		U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW T-13042			
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 <i>Albert C. Rauck, Jr.</i> Albert 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 J. Desch F. Maggiotta	5/08/75	SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
Reviewer	5/17/75		
43. REMARKS Field edit applied from: Field Edit Ozalid Photograph 72 E(C) 3836 Positions from Field Edit Report			

FIELD EDIT REPORT
OPR-448
DUNCAN CANAL
ALASKA

1974

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FIELD EDIT REPORT

TP-13037

TP-13038

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STATION LIST

FORM 567's

POSITION COMPUTATIONS

FIX DATA ABSTRACT

ORIGINAL FIELD RECORDS

Field Edit Report
TP-13042

Introduction

The area covered by this report is that of the southern shoreline of the Duncan Canal Tidal Flats from Indian Point west to the western shoreline. The area is typically ride flats with grass extending out from the shoreline.

The inspection was made on October 17, 18, 1974, from a small skiff on rising tides.

Method

a field edit T-sheet and photographs were taken into the field to verify questioned features. Where possible, sextant fixes (with check angle) were used. Signals were photo-picked from photographs #3836 and #3918.

Adequacy

Field Editing should be considered complete in the area investigated with all questions answered.

The Field Edit Ozalid is fully and completely annotated.

The office compilation is adequate for use on the chart.

Recommendations

The manuscript should be accepted as complete with corrections compiled by this field edit.

Respectfully Submitted

James D. Sarb

James D. Sarb
ENS., NOAA

Approved

M. H. Fleming

M. H. Fleming
CDR., NOAA Cmdg

REVIEW REPORT T-13042

SHORELINE

May 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:

Hydro in this area was "cancelled" 12/9/75; no comparison was made.

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