T-12015 (2)

T-12015 (2)

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. ....CM-7310..... *Map No.* T-12015(2)

Classification No. Final *Edition No.* ...2.....

Field Edited Map

LOCALITY

State ..... Alaska

General Locality ..... Knik Arm - Anchorage

Locality ..... Point MacKenzie

.....

19 73 TO 19 74

REGISTRY IN ARCHIVES

DATE .....

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

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

SURVEY T-12015(2)

MAP EDITION NO. (2)

MAP CLASS Final

JOB PH. CM-7310

PHOTOGRAMMETRIC OFFICE
Coastal Mapping Division
Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE
Jeffrey G. Carlen, Cdr., NOAA

LAST PRECEEDING MAP EDITION

TYPE OF SURVEY: ☒ ORIGINAL ☐ RESURVEY ☐ REVISED

JOB PH. 6013

MAP CLASS I

SURVEY DATES: 1963 TO 1964

I. INSTRUCTIONS DATED

1. OFFICE	2. FIELD
Compilation 12/73	Field 5/73 Supplement 1 6/73

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 4

5. SCALE: 1:10,000 — STATE, ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	R. Kelly	1/74
	LANDMARKS AND AIDS BY	R. Kelly	1/74
2. CONTROL AND BRIDGE POINTS METHOD: Calcomp	PLOTTED BY	Robertson	1/74
	CHECKED BY	Robertson	1/74
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	L. O. Neterer, Jr.	2/74
	CHECKED BY	R. R. White	2/74
INSTRUMENT:	CONTOURS BY	NA	
SCALE: 1:15,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	C. E. Blood	2/74
	CHECKED BY	R. R. White	3/74
METHOD: Smooth Drafted	CONTOURS BY	NA	
	CHECKED BY	NA	
SCALE: 1:10,000	HYDRO SUPPORT DATA BY	C. E. Blood	2/74
	CHECKED BY	R. R. White	3/74
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	R. R. White	3/74
6. APPLICATION OF FIELD EDIT DATA	BY	L. O. Neterer, Jr.	1/75
	CHECKED BY	F. Margiotta	1/75
7. COMPILATION SECTION REVIEW	BY	F. Margiotta	1/75
8. FINAL REVIEW	BY	Jim Byrd	5/79
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	Jim Byrd	7/79
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	E.L. Rolle	9/79
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	E.L. DAUGHERTY	NOV 1979

NOAA FORM 76-36A — SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B
(3-72)

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

T-12015(2)

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC-8 "E" & "K"

TIDE STAGE REFERENCE
- [X] PREDICTED TIDES
- [ ] REFERENCE STATION RECORDS
- [X] TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
- (C) COLOR
- (P) PANCHROMATIC
- (I) INFRARED

TIME REFERENCE
ZONE: Alaska — [X] STANDARD
MERIDIAN: 150th — [ ] DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
73E(C) 9326 thru 9329	6/29/73	12:58	1:30,000	0.8 ft. below MLLW
**73K(I) 8880 and 8881	7/16/73	11:00	1:30,000	±0.2 ft. of MHW
73E(C) 9460 and 9461	7/13/73	11:56	1:30,000	±0.2 ft. of MLLW
73E(C) 9473	7/13/73	12:10	1:30,000	±0.2 ft. of MLLW
73E(C) 9455 and 9456	7/13/73	11:56	1:30,000	±0.2 ft. of MLLW
73E(C) 9470	7/13/73	12:04	1:30,000	±0.2 ft. of MLLW
*73K(I) 8818 and 8819	7/13/73	11:56	1:30,000	±0.2 ft. of MLLW
*73K(I) 8831	7/13/73	12:10	1:30,000	±0.2 ft. of MLLW
*73K(I) 8813 thru 8815	7/13/73	11:56	1:30,000	±0.2 ft. of MLLW
*73K(I) 8828	7/13/73	12:04	1:30,000	±0.2 ft. of MLLW

REMARKS

*Tide controlled photography.

2. SOURCE OF MEAN HIGH-WATER LINE:

**The mean high water line was compiled from tide controlled infrared photography at the south portion of this map only.

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

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

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-12006(2)	T-12016(2)	T-12017(2)	PH-6013 T-12014*

REMARKS

*MLLWL junction not made. Refer to the Compilation Report, Item 39. Junctions, which is bound with this Descriptive Report.

NOAA FORM 76-36B
(3-72)

* U. S. GOVERNMENT PRINTING OFFICE: 1974-768-078

NOAA FORM 76-36C
(3-72)

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

T-12015(2)

HISTORY OF FIELD OPERATIONS

I. [X] FIELD INSPECTION OPERATION [ ] FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R. Melby	6/73
2. HORIZONTAL CONTROL	RECOVERED BY	R. Melby	6/73
	ESTABLISHED BY	R. Melby	6/73
	PRE-MARKED OR IDENTIFIED BY	L. Riggers	6/73
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	R. Melby	6/73
	LOCATED *(Field Methods)* BY	R. Melby	6/73
	IDENTIFIED BY	R. Melby	6/73
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [X] NO INVESTIGATION — BY		
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
NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
73E(C) 9326	POINT MACKENZIE LIGHT, 1973		

3. PHOTO NUMBERS *(Clarification of details)*

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
73E(C) 9326	POINT MACKENZIE LIGHT		

5. GEOGRAPHIC NAMES: [ ] REPORT [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [X] NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

None

☆U.S. Government Printing Office: 1975 – 665-661/1110, Region No. 6

NOAA FORM 76-36C
(3-72)

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

T-12015(2)

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		K. Jeffers	5-8/74
2. HORIZONTAL CONTROL	RECOVERED BY	G. Stroble	5-8/74
	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	G. Stroble	5/74
	LOCATED *(Field Methods)* BY	G. Stroble	5/74
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	G. Stroble	5/74
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)*

73K-8828 and 8831

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
1 Form 76-40
1 Field Edit Report

☆U.S. Government Printing Office: 1975 — 665-661/1110, Region No. 6

NOAA FORM 76-36D
(3-72)

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

T-12015(2)

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.	2/74	Class III Manuscript Superseded	3/74	3/74
Field edit applied. Compilation complete.	1/75	Class I Manuscript	2/75	
Final Review	5/79	Final	7/79	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		2/07/75	Aids for charting.

2. [X] REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: February 7, 1975
3. [ ] REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. [X] BRIDGING PHOTOGRAPHS; [X] DUPLICATE BRIDGING REPORT; [X] COMPUTER READOUTS.
2. [X] CONTROL STATION IDENTIFICATION CARDS; [X] 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: _____

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

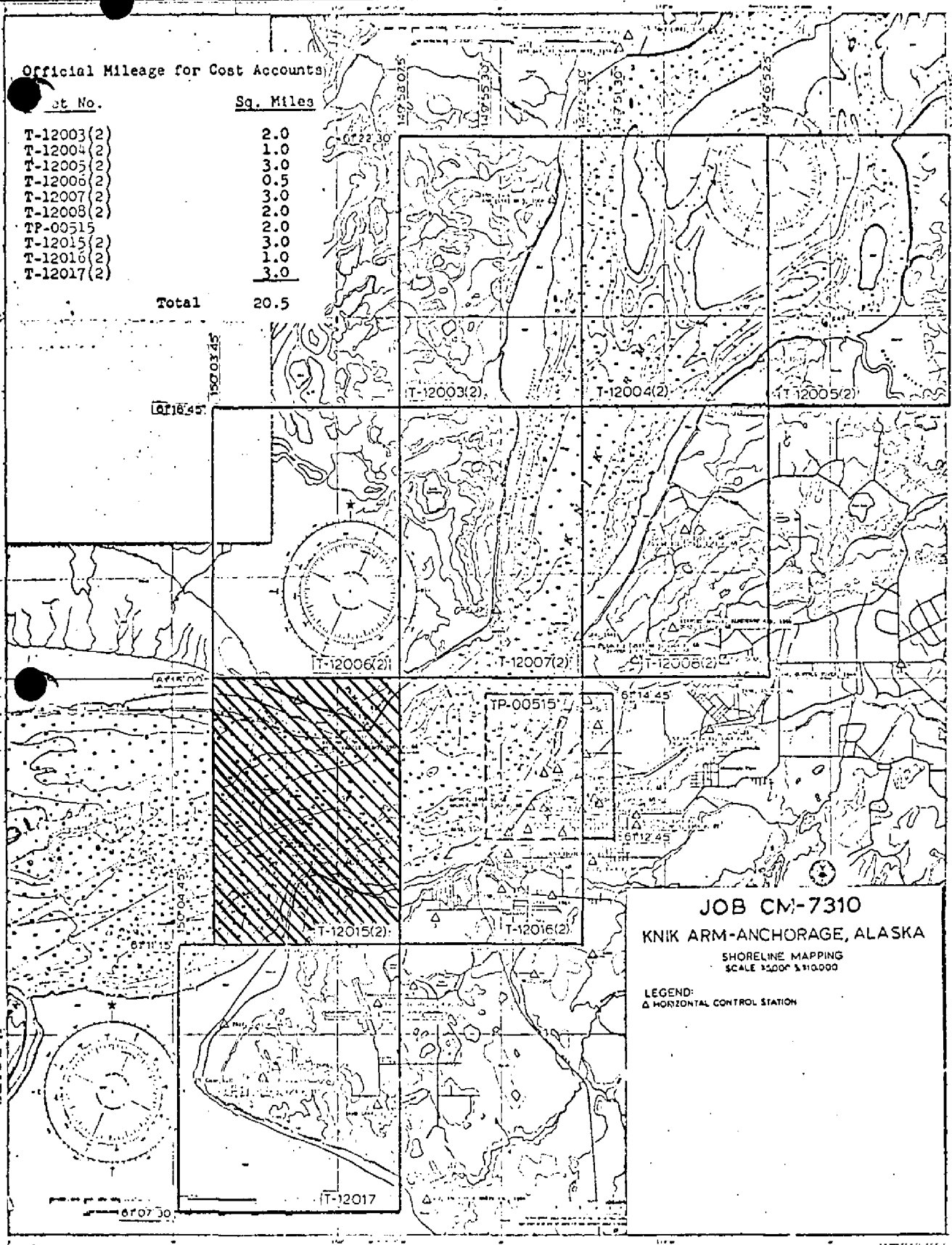
	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY / MAP CLASS
SECOND EDITION	TP - 12015 (2)	PH - CM-7310	[ ] REVISED [X] RESURVEY [ ] II. [ ] III. [ ] IV. [ ] V. [X] FINAL
	DATE OF PHOTOGRAPHY: 6/29/73 - 7/13/73	DATE OF FIELD EDIT: 6/73	
THIRD EDITION	TP - _____ (3)	PH - _____	[ ] REVISED [ ] RESURVEY [ ] II. [ ] III. [ ] IV. [ ] V. [ ] FINAL
	DATE OF PHOTOGRAPHY:	DATE OF FIELD EDIT:	
FOURTH EDITION	TP - _____ (4)	PH - _____	[ ] REVISED [ ] RESURVEY [ ] II. [ ] III. [ ] IV. [ ] V. [ ] FINAL
	DATE OF PHOTOGRAPHY:	DATE OF FIELD EDIT:	

NOAA FORM 76-36D

☆U. S. GOVERNMENT PRINTING OFFICE: 1973--778075/1077 REGION NO. 6

Official Mileage for Cost Accounts

Act No.	Sq. Miles
T-12003(2)	2.0
T-12004(2)	1.0
T-12005(2)	3.0
T-12006(2)	0.5
T-12007(2)	3.0
T-12008(2)	2.0
TP-00515	2.0
T-12015(2)	3.0
T-12016(2)	1.0
T-12017(2)	3.0
Total	20.5



JOB CM-7310

KNIK ARM-ANCHORAGE, ALASKA

SHORELINE MAPPING

SCALE 1:5,000 & 1:10,000

LEGEND:
△ HORIZONTAL CONTROL STATION

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS

T12003(2) Thru T12008(2), T12015(2), T12016(2), T12017 and TP00515

Project CM-7310 covers Knik Arm--Anchorage, Alaska from Point Campbell Northeasterly to Goose Creek and including Eagle Bay.

There were ten maps assigned in this project T-12003(2) thru T-12008(2), T-12015(2), T-12016(2), T-12017 were at scale 1:10,000. One sheet TP-00515 was at 1:5000 scale. The purpose of these maps as a second edition of job PH 6013 was to provide contemporary shoreline data in the support of hydrographic operations and to aid in nautical chart revision.

Field work prior to compilation in May - June 1973 consisted of paneling horizontal control stations in advance of aerial photography and also all field operations required to provide ground support needed to obtain the tide coordinated photography.

The area was flown in June 1973 with a combination of 1:15,000 and 1:30,000 scale "E" camera, "K" scale photography with both color and tide controlled infrared.

Analytic aerotriangulation was performed at the Washington Science Center in January 1974.

The maps were compiled at AMC in February and March 1974.

Field edit was completed in October 1974 on all sheets except for T-12017 for which only a partial field edit was performed (Landmarks and Aids). It was applied to the maps at AMC in January and February 1975.

Final Review was performed at AMC in April-July 1979. The original second edition base maps and all pertinent data was forwarded to the Washington Science Center for final Registration. Sheet T-12017 was reviewed and will be rigistered as a ClassIII Map since the field edit was "cancelled" at time of final review.

FIELD INSPECTION

T-12015(2)

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

Photogrammetric Plot Report
Knik Arm - Anchorage, Alaska
Job CM-7301
January 1974

21. Area Covered

This report covers nine 1:10,000 sheets, T-12003(2), T-12004(2) T-12005(2), T-12006(2), T-12007(2), T-12008(2), T-12015(20, T-12016(2) T-12017(2), and one 1:5,000 sheet, TP-00515 of Knik Arm - Anchorage, Alaska.

22. Method

Three strips 1:30,000 scale color photography were bridged by analytic aerotriangulation methods and adjusted to ground on Alaska State plane coordinate system, Zone 4. Bridge points were used on 1:15,000 and 1:30,000 scale infrared photography for ratioing photography to be used in compiling the mean low and mean high-water line. Ratio prints of infrared photography covering mean low and mean high water were ordered. (One each of cronapaque.) One cronapaque and one matte each were ordered of the bridging photographs. For the 1:5,000 scale sheet pass points were determined and positioned to control models of the 1:15,000 scale strip of photography. Data for plotting manuscripts for compilation were assembled for ruling and plotting by the Coradomat.

23. Adequacy of Control

The horizontal control provided was adequate and held well within the accuracy required by National Standards of Map Accuracy at 1:5,000 and 1:10,000 scale. Tie points and airport control were used to augment datum tie.

24. Supplemental Data

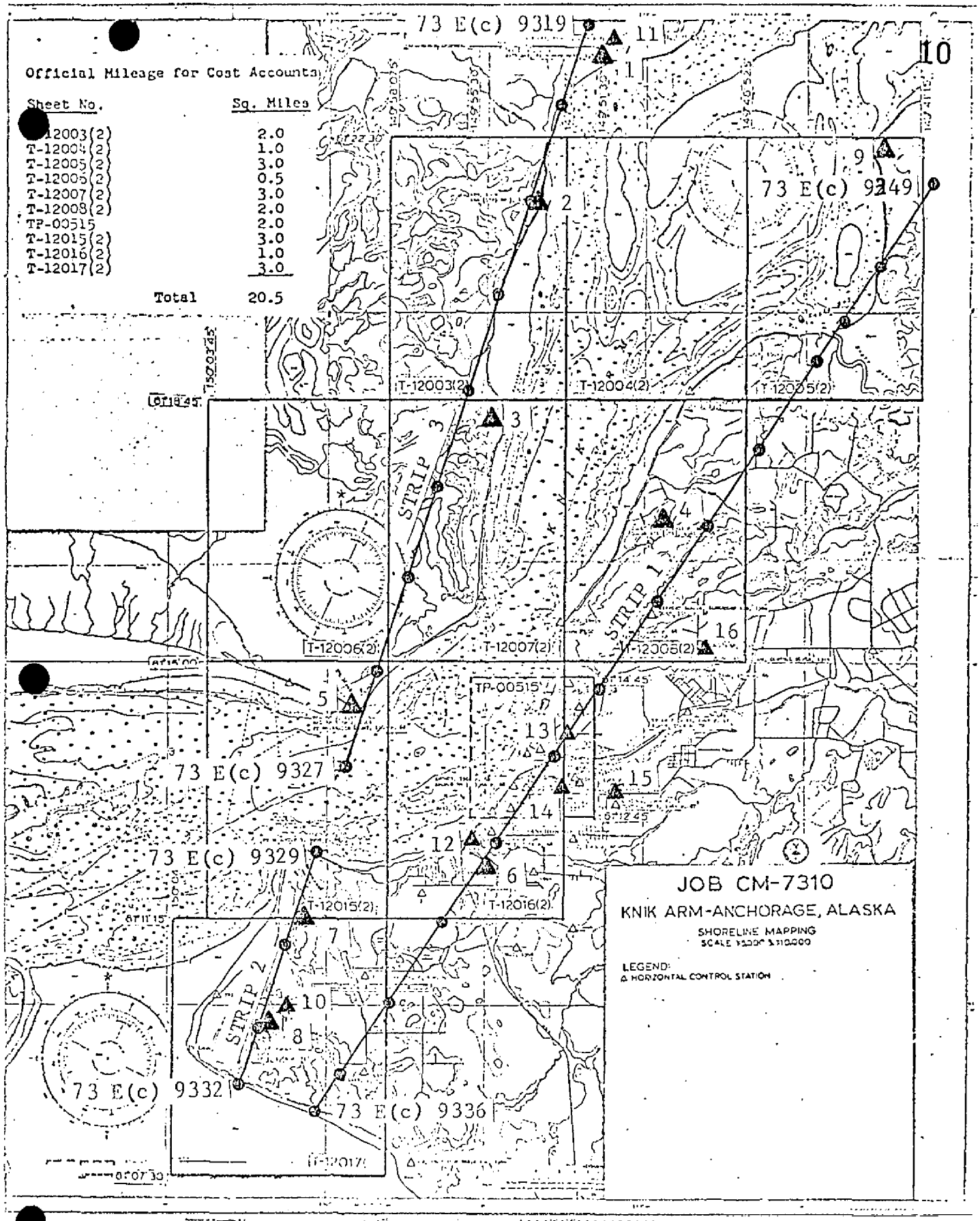
U.S. Geological Survey quadrangles were used to provide elevations for vertical adjustments of bridges.

25. Photography

RC-8 color film positives were adequate as to coverage, overlay, and definition.

Submitted by,
Robert B. Kelly

Approved and forwarded:
John D. Perrow
Chief, Aerotriangulation


Official Mileage for Cost Accounting
Sheet No. Sq. Miles
T-12003(2) 2.0
T-12004(2) 1.0
T-12005(2) 3.0
T-12006(2) 0.5
T-12007(2) 3.0
T-12008(2) 2.0
TP-00515 2.0
T-12015(2) 3.0
T-12016(2) 1.0
T-12017(2) 3.0
Total 20.5
73 E(c) 9319
73 E(c) 9349
73 E(c) 9327
73 E(c) 9329
73 E(c) 9332
73 E(c) 9336
STRIP 1
STRIP 2
STRIP 3
T-12003(2)
T-12004(2)
T-12005(2)
T-12006(2)
T-12007(2)
T-12008(2)
TP-00515
T-12015(2)
T-12016(2)
T-12017(2)
JOB CM-7310
KNIK ARM-ANCHORAGE, ALASKA
SHORELINE MAPPING
SCALE 1:5000 & 1:10000
LEGEND:
HORIZONTAL CONTROL STATION

NUMBER CONTROL

1 BAY(USE) 1964

2 ARM(USE) RM 3, 1964

3 MULE, 1973

4 GLOBE BIE (USE) 1961

5 PT. MACKENZIE LIGHT, 1973

6 SPENARD, 1964

7 VANCE, 1964

8 PT. 2(USE) 1964

9 PAL 2 , 1973

10 SITE PT. RADOME

11 SITE BAY, RADOME, 1964

12 ANCHORAGE, RADIO SATION KENI, TOWER, 1954

13 ANCHORAGE, ACS MICROWAVE RELAY TOWER, 1960

14 ANCHORAGE, TV STATION KTVA, TOWER, 1964

15 ANCHORAGE, MERRILL FIELD, CONTROL TOWER, 1964

16 ELMENDORF AFB WATER TANK BEACON, 1964

NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
T-12015(2)	CM-7310	NA 1927	Coastal Mapping Division, AMC, Norfolk, Virginia

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET (STATE / ZONE)	GEOGRAPHIC POSITION (φ LATITUDE / λ LONGITUDE)	REMARKS FORWARD	REMARKS BACK
POINT WORONZOF 5, 1964	Quad 611502 P. 40		x=	φ 61 12 12.83772	397.4	(1459.9)
			y=	λ 150 00 46.77217	698.5	(197.6)
POINT MACKENZIE LIGHT, 1973	Unadjusted Field Pos. P. 01		x=	φ 61 14 19.534	604.7	(1252.6)
			y=	λ 149 59 06.010	89.7	(805.3)
POINT WORONZOF 6, 1973	Unadjusted Field Pos. P. 01		x=	φ 61 12 11.0792	342.9	(1514.3)
			y=	λ 150 00 50.1821	749.5	(146.6)
VANCE, 1964	Quad 611502 P. 42 & 43		x=	φ 61 11 16.89148	522.8	(1334.4)
			y=	λ 150 00 52.37405	782.6	(113.9)
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		

COMPUTED BY	DATE	COMPUTATION CHECKED BY	DATE
A. C. Rauck, Jr.	1/25/74	F. R. Gustafson	1/25/74
LISTED BY	DATE	LISTING CHECKED BY	DATE
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

COMPILATION REPORT

T-12015(2)

31. DELINEATION:

Delineation was ~~by~~ on the Wild B-8 stereoplotter for all compilation, except the mean lower low water line, which was compiled graphically from the tide controlled infrared photography. (See Form 76-36B.) Photograph coverage was adequate.

32. CONTROL:

See the attached Photogrammetric Plot Report dated January 1974. The aerotriangulation was not extended into this area.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was delineated ~~by~~ on the Wild B-8 stereoplotter and by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

Alongshore details were delineated ~~by~~ on the Wild B-8 stereoplotter and by office interpretation of the photographs.

The mean high water line was delineated from the photographs.

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:

See the attached Form 76-36B, Item #5, of the Descriptive Report concerning junctions. Time lapse between 1966 and 1973 photography made the junction of the MLLWL impossible between this project and Project 6013.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the following USGS Quadrangles: ANCHORAGE (A-8), ALASKA, dated 1952, revised 1963, scale 1:63,360; and TYONEK (A-1), ALASKA, dated 1952, scale 1:63,360.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following National Ocean Survey Chart: No. 8557, Cook Inlet to Goose Creek, scale 1:40,000, dated October 19, 1971.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Charles Blood
Charles E. Blood
Cartographic Technician
February 28, 1974

Approved for forwarding:

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

T-12015(2)

49. NOTES FOR THE HYDROGRAPHER:

These are noted on the Master Film Field Edit Ozalid.

April 12, 1979

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7310 (Knik Arm - Anchorage, Alaska)

TP-12015 (2)

Knik Arm

Point MacKenzie

Point Woronzof

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- 12015(2)

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
RRW	RRW	RRW	RRW

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY *(Topographic stations)*	7. PHOTO HYDRO STATIONS
RRW	NA	NA

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
NA	FM	RRW	RRW

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
RRW	RRW	RRW	RRW

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
RRW	RRW	RRW	RRW

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
RRW	NA	NA

23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
NA	NA	NA	RRW

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
RRW	RRW	RRW	RRW

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
NA	NA

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
RRW	RRW	RRW

36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
RRW	RRW	NA	RRW

40. REVIEWER	SUPERVISOR, REVIEW SECTION OR UNIT
Richard R. White Richard R. White 2/74	Albert C. Rauck, Jr. 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	SUPERVISOR
L. O. Neterer, Jr. 1/75 Reviewer F. Margiotta 1/75	Albert C. Rauck, Jr. Albert C. Rauck, Jr.

43. REMARKS

~~See Form 76-36C, Item 8.~~

FIELD EDIT REPORT

OPR-469-RA-1974

UPPER COOK INLET, KNIK ARM

ALASKA

T-12000 thru T-12008
T-12012 thru T-12016
T-12021
T-12031
TP- 00515

NOTE: Maps T-12003 thru T-12008 and T-12015 & T-12016, in Job CM-7310, referred to in this Field Edit Report, are SECOND EDITION MAPS
E. Rolle
9/11/79

NOAA Ship RAINIER

CDR K. William Jeffers

Commanding

INTRODUCTION

Field edit was completed on selected "minus tide days" during the period from mid-May through the end of August. Work was carried out on shore and land.

Field edit was started in the Port of Anchorage and continued north up Knik Arm to Latitude 61°22.0', the northern limit of shoreline control. Field edit was completed on the north side of Cook Inlet westward to Longitude 150°37.0'. Shoreline around Fire Island was inspected on the northwest side from North Point to West Point. Approximately 3 miles of shoreline wereinspected in the immediately vicinity of Pt. Possession.

Photographs used in the field edit are from jobs CM-7310 and PH-6013. Height data on all rocks was estimated. Times were referenced to 0° Longitude.

Adequacy of Compilation

All rocks and offshore features are labeled on the field edit ozalids, and whereever possible, verified on the field photos. Compilation of the MHWL was excellent on the manuscripts. Verification of MLLW was done by launch hydrography and is clearly deliniated on the boat-sheets.

Shoreline Summaries

T-12000, T-12001, T-12002, T-12012, T-12013 (Northern Half), T-12014 (Northern Half)

This group of manuscripts includes the northern part of Cook Inlet fromSusitna River to Pt. Mackenzie. The area is one of extensive mud flats. One discrepancy was noted on the shoreline junction between T-12002 (1966 shoreline manuscript) and T-12006 (1973 shoreline manuscript). The 1973 shoreline manuscript extended the shoreline up to the forest edge. The MHWL is along a marsh that extends south from the forest edge. Therefore the shoreline was adjusted to follow the MHWL along the marsh.

T-12013 and T-12014 (southern Half)

The shoreline in this area covers Fire Island. The shoreline of Shelter Bay is muddy. The northern side of the island has a rocky beach with some detached rocks, none extending more that a quarter mile off shore. The southern andeastern side of Fire Island was not field edited, therefore, the Field Edit Ozalids should be returned to the RAINIER as soon as possible.

T-12021 and T-12031

The vicinity of Point Possession is foul with offshore rocks. The west side of Pt. Possession is very foul with rocks extending out 3/4 mile. This area was not completely field edited, therefore, the manuscripts and field edit ozalids should be returned to the RAINIER as soon as possible.

T-12006(2), T-12015(2), T-12016(2), TP-00515

This area includes Anchorage Harbor and the area extending westward to Pt. Mackenzie and Pt. Woronzof. The southern shore is primarily mud flats, almost entirely free of offshore rocks. The northern shore has many offshore rocks awash at MLLW. TP-00515 is a 1:5,000 scale inset of Anchorage Proper. Pier heights and additional data arerecorded on the Field Edit Ozalid.

T-12007(2), T-12008(2)

Lower Knik Arm-- The east and west shore are foul with many rocks and boulders awash at MLLW.

T-12003(2), T-12004(2), T-12005(2)

This area includes upper Knik Arm to the extent of the 1973 photo coverage. The east and west shores are mud with very few dangerous rocks.

Recommendations

Much of the area included in this survey project lacked good photo support. The 1973 photo support in Knik Arm and Anchorage Harbor was excellent, however, the 1966-1967 coverage westward into Cook Inlet was very sparse. Of special concern is the fact that the T-sheet and flight-line index showed many flight lines of photos which were never received and would have aided our field operations considerably. If these flights lines or even parts of them are not available, a complete inventory should be supplied for our records.

respectfully submitted,

Garth Stroble LTJG,NOAA

22 Bc

MANUSCRIPT-PHOTO INDEX

~~T~~-SHEET	PHOTOS
T-12000	66L-6673
T-12003 (2)	73K-8871,8872
T-12004 (2)	73K-8863
T-12005 (2)	73K-8863,8864,8865
T-12007 (2)	73K-8832,8833,8872,8873
T-12008 (2)	73K-8835
T-12014	66W-1328
T-12015 (2)	73K-8828,8831
T-12016 (2)	73K-8831,8832,8848
T-12021	66L-6725
TP-00515	73K-8846,8847,

	RADAR/RDF STATIONS	CODE	ELEV	LATITUDE	LONGITUDE
101	ZOF 1974	4-2-4-3	43 M	61 12 15.360	150 00 49.560
102	ANCHOR 1964 (ECC)	2-1	29 M	61 13 11.576	149 54 05.541
103	MAC DM3 1947 DM1 1960	3	28 M	61 14 19.454	149 59 05.884
104	KEN 1974	3	28 M	61 14 20.461	149 58 56.770
105	FIRE 1974	1-4	53 M	61 18 23.838	149 54 32.781
106	DAVE 1974	2	21 M	61 18 30.564	149 49 02.638
107	SNI 1974	1	44 M	61 19 24.380	149 47 05.491
108	ARN USE 1941 1964	3	60 M	61 21 38.098	149 53 20.460
109	LAP 1974	4	40 M	61 22 13.584	149 42 59.924
110	TUSE 1914 1964	2	24 M	61 22 20.216	149 40 45.257
111	PETERS V RACE 1920 1964	4	16 M	61 25 40.302	149 29 19.288
112	SIT 1966	2	17 M	61 15 51.370	150 12 37.662
113	RACE POINT DM3 1964	1	*53 M	61 10 04.988	150 13 21.466
114	MISERY 3 1944	4	25 M	61 16 38.012	150 28 14.734
115	FIRE ISLAND LT 1966	3-2-4	12 M	61 07 35.754	150 16 48.087
116	POSSESSION 1969	2-3	37 M	61 02 16.381	150 23 43.391
117	PHILLIPS PLATFORM A 1974	2	36 M	61 04 36.172	150 56 53.605
118	BIRCH HILL USE 1941	4	48 M	60 55 16.723	150 44 58.088
119	MOOSE POINT LT 1966	4	12 M	60 57 22.872	150 41 01.945
120	RACE POINT LT 1966	1	61 M	61 10 17.462	150 12 35.026

*50 M PRIOR TO 13JUL74

	VISUAL SIGNALS	LATITUDE	LONGITUDE
201	SITE POINT RADOME 1964	61 09 34.034	150 01 54.683
202	PT WORONZOF 6 1969	61 12 11.079	150 00 50.182
203	ANCH RADIO STA KENI TWR 1954 1964	61 12 25.181	149 55 [illegible].367
204	ANCHORAGE TV STA KENI MAST 1964	61 13 07.869	149 53 32.868
205	ANCH TV STA KTVA TOWER 1954 1964	61 13 09.991	149 52 31.162
206	ANCHOR 1964	61 13 12.285	149 54 03.699
207	ANCHORAGE MUNICIPAL TANK 1964	61 13 46.510	149 52 35.348
208	ANCH ACS MICROWAVE TOWER 1960 1964	61 13 55.983	149 52 21.661
209	PT MACKENZIE LIGHT 1973	61 14 19.534	149 59 06.010
210	SANDBAG 1960 1964	61 14 40.491	149 52 21.193
211	SAWYER 2 USE 1963 1964	61 15 13.767	149 50 56.051
212	GLOBE DIE USE 1961 1964	61 17 01.974	149 49 22.604
213	KYLE 1973	61 19 05.814	149 54 57.722
214	BIRCH USE 1941 1964	61 19 23.859	149 47 06.044
215	ARN USE DM3 1964	61 21 38.149	149 53 20.857
216	PAL 2 1973	61 22 19.513	149 43 06.059
217	SITE DAY RADOME 1964	61 23 48.762	149 51 10.551
218	AIRPORT BEACON ELMENDORF AFB 1968	61 15 40.264	149 49 44.198
219	RACE PT LIGHT 1966 - SAME AS 120	61 10 17.462	150 12 35.026
220	PT POSSESSION LT 1974	61 02 03.927	150 24 10.774
221	PT WORONZOF INTAKE TANK 1974	61 12 15.438	150 01 00.889
222	FIRE ISLAND FAA RADOME 1974	61 08 36.166	150 12 53.478
223	WEST POINT RANGE HYDRO SIGNAL 1974	61 07 43.480	150 16 32.666
224	SHELTER BAY HYDRO SIGNAL 1974	61 08 04.144	150 14 42.380
225	PT WORONZOF RANGE FRONT LT 1974	61 12 09.025	150 01 11.115
226	PT WORONZOF RANGE REAR LT 1974	61 12 10.372	150 00 53.363
227	PT MACKENZIE RANGE FRONT LT 1974	61 14 22.600	149 59 17.331
228	PT MACKENZIE RANGE REAR LT 1974	61 14 29.172	149 58 52.579
229	FIRE ISLAND RANGE FRONT LT 1974	61 10 22.677	150 11 51.555
230	FIRE ISLAND RANGE REAR LT 1974	61 10 15.509	150 12 19.146

orig. to charts
2/5/75

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NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

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

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

ORIGINATING ACTIVITY
- ☐ HYDROGRAPHIC PARTY
- ☐ GEODETIC PARTY
- ☐ PHOTO FIELD PARTY
- ☒ COMPILATION ACTIVITY
- ☐ FINAL REVIEWER
- ☐ QUALITY CONTROL & REVIEW GRP.
- ☐ COAST PILOT BRANCH

(See reverse for responsible personnel)

☒ TO BE CHARTED
☐ TO BE REVISED
☐ TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Coastal Mapping Div. AMC- Norfolk,Va.	Alaska	Knik Arm- Anchorage	Jan.1975

The following objects HAVE ☒ HAVE NOT ☐ been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
469	CM-7310	T-12015(2)	N.A.1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	POSITION LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	POSITION LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	METHOD AND DATE OF LOCATION FIELD	CHARTS AFFECTED
LIGHT	(Point Mackenzie Light,1973)	61-14	19.534 604.7	149-59	06.010 89.7	73E(C)9473 Unadj.Field Pos.	Triang. Rec. May,1974	8553 8557
LIGHT	Point Mackenzie Range Front Light	61-14	22.600 699.6	149-59	17.331 258.5	73E(C)9473 July 13,1973	F.3. Aug.18,1974	8553 8557
LIGHT	Point Mackenzie Range Rear Light	61-14	29.172 903.0	149-59	52.579 784.3	73E(C)9473 July 13,1973	F.3. Aug.18,1974	8553 8557
LIGHT	Point Woronzof Range Front Light	61-12	09.025 279.4	150-01	11.115 166.0	73E(C)9470 July 13,1973	F.3. Aug.18,1974	8553 8557
LIGHT	Point Woronzof Range Rear Light	61-12	10.372 321.1	150-00	53.363 796.9	73E(C)9470 July 13,1973	F.3. Aug.18,1974	8553 8557

✓ QCA- F.M.

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	Garth Stroble,Lt(jg)	☐ PHOTO FIELD PARTY ☒ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED	Garth Stroble,Lt(jg)	FIELD ACTIVITY REPRESENTATIVE
	L.Neterer,Jr.	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		☐ REVIEWER ☐ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'

(Consult Photogrammetric Instructions No. 64,

OFFICE

I. OFFICE IDENTIFIED AND LOCATED OBJECTS
Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.
EXAMPLE: 75E(C)6042
8-12-75

FIELD

I. NEW POSITION DETERMINED OR VERIFIED
Enter the applicable data by symbols as follows:

F - Field	P - Photogrammetric
L - Located	Vis - Visually
V - Verified	
1 - Triangulation	5 - Field identified
2 - Traverse	6 - Theodolite
3 - Intersection	7 - Planetable
4 - Resection	8 - Sextant

A. Field positions* require entry of method of location and date of field work.
EXAMPLE: F-2-6-L
8-12-75

*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

FIELD (Cont'd)

B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.
EXAMPLE: P-8-V
8-12-75
74L(C)2982

II. TRIANGULATION STATION RECOVERED
When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery.
EXAMPLE: Triang. Rec.
8-12-75

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH
Enter 'V-Vis.' and date.
EXAMPLE: V-Vis.
8-12-75

**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

REVIEW REPORT T-12015(2)
SHORELINE

May 23, 1979

61. GENERAL STATEMENT:

See Summary, which is page 7 of the Descriptive Report.

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 verified copy of H-9441(1974). H-9441 shows a rock (9) at approximate Lat. 61°14.6' Long. 150°01.9'. This map shows the rock (4). There are no other significant differences.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with chart 16660 scale 1:194,154 19th Ed. September 10/77 and Chart 16664 scale 1:40,000 16th Ed. May 28/77. There were no significant differences.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:

Jim Byrd
Final Reviewer

Approved for forwarding:

Billy H. Barnes
Chief Photogrammetric Branch, AMC

Approved:

John D Cerrao Jr.
Chief Photogrammetric Branch

Chief, ~~Coastal Mapping~~ Photogrammetry Division