

TP-00515

TP-00515

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. TP-00515
Classification No. Final Edition No. 1
Field Edited Map

LOCALITY

State Alaska
General Locality Knik Arm - Anchorage
Locality Anchorage

1973 TO 1974

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 Atlantic Marine Center, Norfolk, VA		SURVEY TP. <u>00515</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB <u>CM-7310</u>	
OFFICER-IN-CHARGE Jeffrey G. Carlen, Cdr., NOAA		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	
Compilation 12/73		Field 5/73 Supplement 1 6/73	
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 4	
5. SCALE 1:5,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY		R. Kelly	1/74
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Calcomp CHECKED BY		R. Kelly Robertson	1/74 1/74
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY		L. O. Neterer, Jr. R. R. White	1/74 1/74
INSTRUMENT: Wild B-8 SCALE: 1:7,500		CONTOURS BY CHECKED BY	
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY		C. Blood A. L. Shands	
METHOD: Smooth Draft SCALE: 1:5,000		CONTOURS BY CHECKED BY	
HYDRO SUPPORT DATA BY CHECKED BY		C. Blood A. L. Shands	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		A. L. Shands	
6. APPLICATION OF FIELD EDIT DATA BY		D. P. Butler	
CHECKED BY		L. O. Neterer, Jr.	
7. COMPILATION SECTION REVIEW BY		L. O. Neterer, Jr.	
8. FINAL REVIEW BY		Jim Byrd	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		Jim Byrd	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		E. L. Rolle	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		E. L. DAUGHERTY	

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00515
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E" & "K"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Alaska	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 150th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
*73E(C) 9488 thru 9490	7/15/73	12:53	1:15,000	0.2 ft. of MLLW	
*73K(I) 8846 thru 8848	7/15/73	12:53	1:15,000	0.2 ft. of MLLW	
73E(C) 9305 thru 9309	6/29/73	12:25	1:15,000	2.6 ft. below MLLW	

REMARKS

*Tide controlled photography.

2. SOURCE OF MEAN HIGH-WATER LINE:

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

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	T-12016(2) 1:10,000 ✓	EAST	No Survey ✓	SOUTH	T-12016(2) 1:10,000 ✓	WEST	T-12016(2) 1:10,000 ✓
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REMARKS

Junctions to the north, south and west with T-12016(2), of which this map is a part.

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00515
HISTORY OF FIELD OPERATIONSI. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	6/73
2. HORIZONTAL CONTROL	RECOVERED BY	None
	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	None

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

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HISTORY OF FIELD OPERATIONS

1. ☐ 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
	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
	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	G. Stroble
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-8847 , 8846

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
- 2 Form 76-40's
- 1 Field Edit Report

TP-00515
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	6/79	Final	2/75	

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	Landmarks for charting.
1		2/07/75	Landmarks for deletion.

2. ☒ 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. ☒ 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: _____

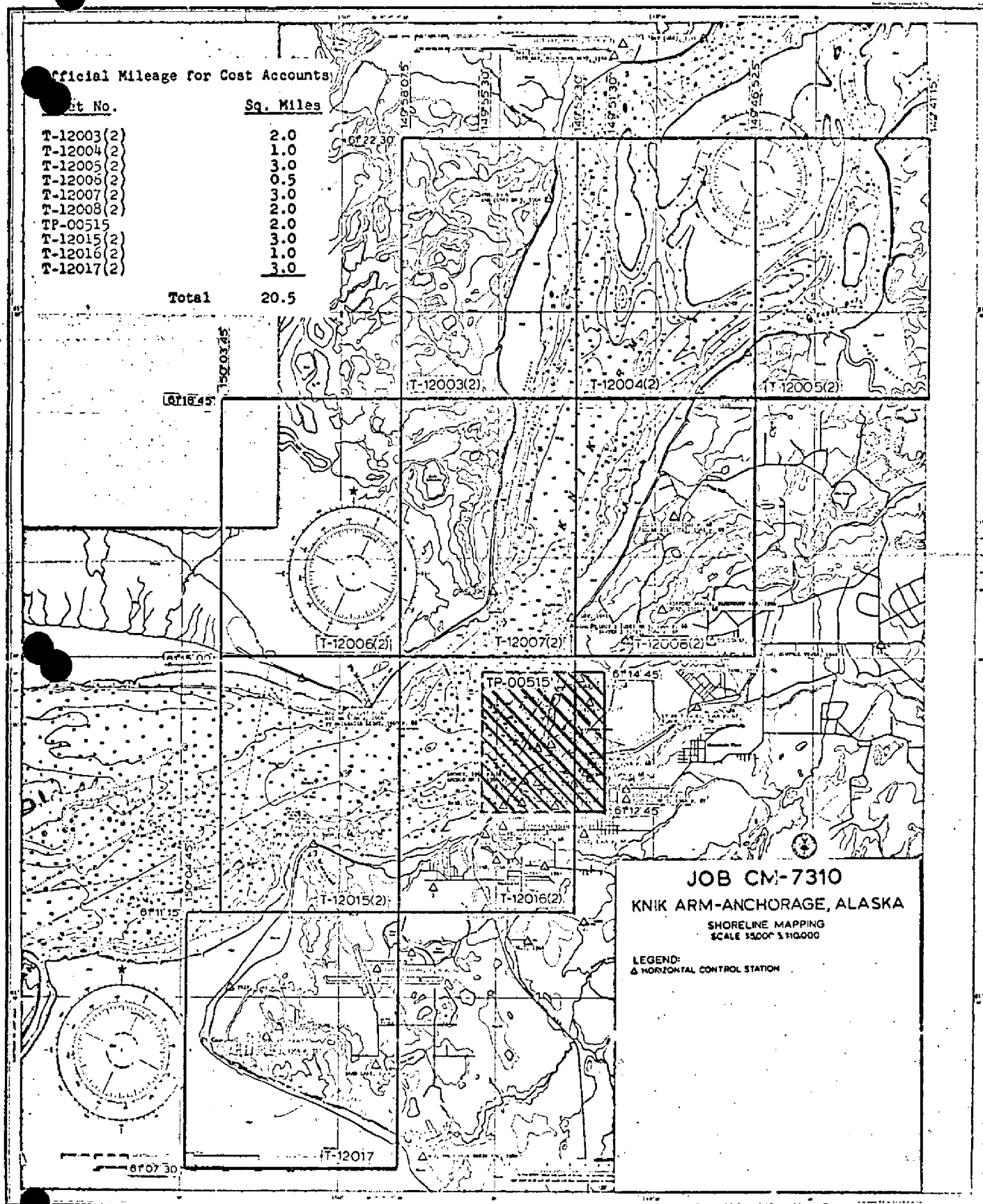
IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

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)

<u>Plot No.</u>	<u>Sq. Miles</u>
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
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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 registered as a ClassIII Map since the field edit was "cancelled" at time of final review.

FIELD INSPECTION

TP-00515

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(2), 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 cronapague.) One cronapague 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.

Approved and Forwarded:

John D. Perrow
John D. Perrow
Chief, Aerotriangulation

Submitted by:

Robert B. Kelly
Robert B. Kelly

Sheet No.

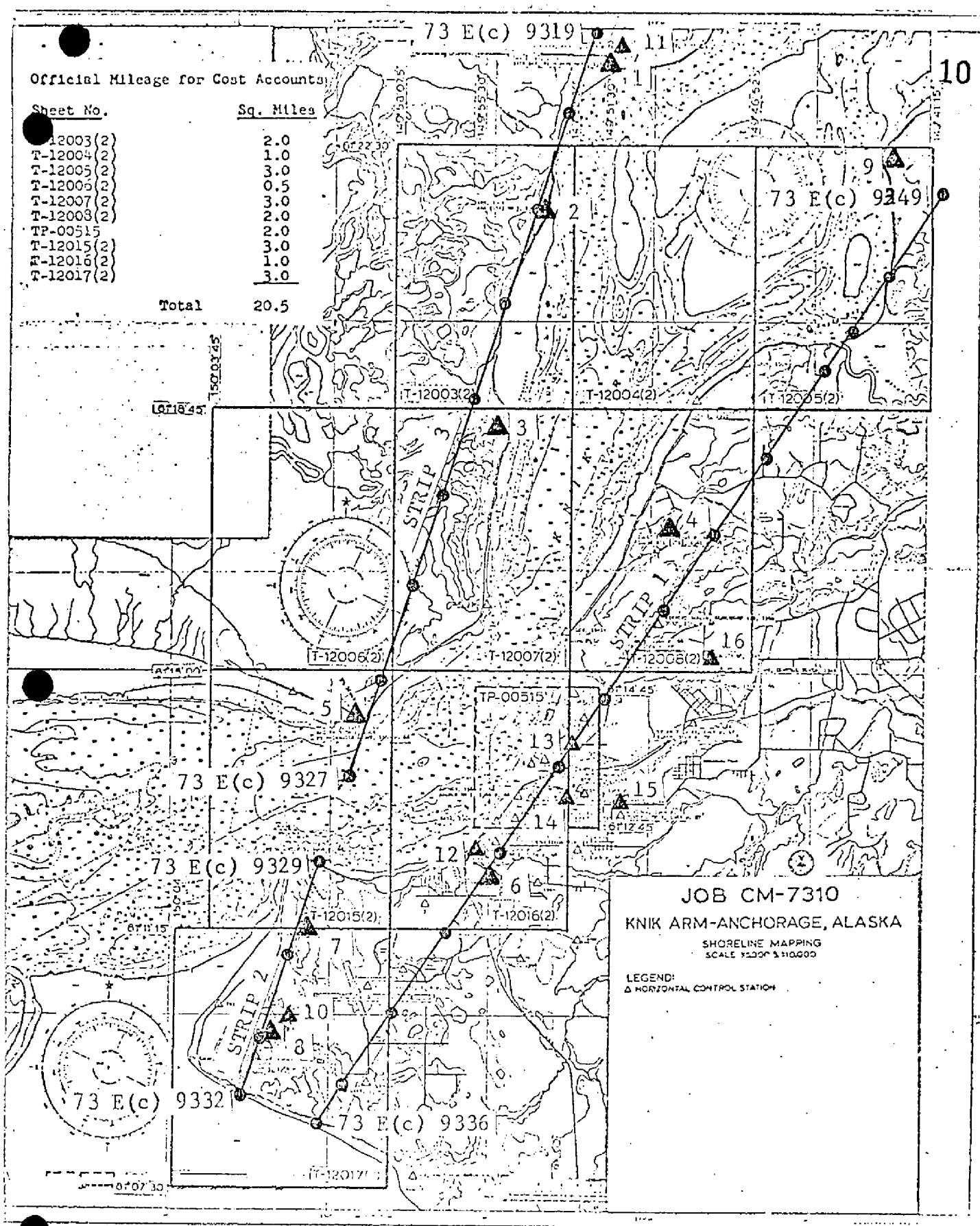
Sq. Miles

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)

2.9

Total

20.5



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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	CM-7310	GEODETTIC DATUM		1927	ORIGINATING ACTIVITY		REMARKS
				STATE	ZONE		Division, AMC, Norfolk, Virginia	Coastal Mapping	
				COORDINATES IN FEET		GEOGRAPHIC POSITION			
				AEROTRIANGULATION POINT NUMBER		φ LATITUDE λ LONGITUDE		FORWARD BACK	
RAGE, 1964	/	Quad 611493 P. 193				φ 61 12 52.16820	1614.8	(242.5)	
ANCHOR, 1964	/	Quad 611493 P. 191				λ 149 54 43.80085	653.9	(241.9)	
ANCHORAGE, TV STATION KENI MAST, 1964		Quad 611493 P. 177				φ 61 13 12.28467	380.3	(1477.0)	
ANCHORAGE, FEDERAL BUILDING CHIMNEY, 1941		Quad 611493 P. 001				λ 149 54 03.69912	55.2	(840.4)	
ANCHORAGE, PROVIDENCE HOSPITAL, GOLD PAINTED CROSS, 1941		Quad 611493 P. 002				φ 61 13 07.86948	243.6	(1613.7)	
ANCHORAGE, TV STATION KTVA, TOWER, 1954		Quad 611493 P. 183				λ 149 53 30.953	462.0	(433.6)	
ANCHORAGE, MUNICIPAL TANK, 1964		Quad 611493 P. 178				φ 61 12 52.875	1636.7	(220.6)	
ANCHORAGE, ACS MICROWAVE TOWER, 1960		Quad 611493 P. 186				λ 149 54 08.194	122.3	(773.5)	
						φ 61 13 09.99146	309.3	(1548.0)	
						λ 149 52 31.16262	465.2	(430.4)	
						φ 61 13 46.51035	1439.7	(417.6)	
						λ 149 52 35.34793	527.5	(367.9)	
						φ 61 13 55.98800	1733.1	(124.2)	
						λ 149 52 21.66113	323.2	(572.0)	
						φ			
						λ			
						φ			
						λ			
COMPUTED BY	A. C. Rauck, Jr.	DATE 1/25/74		COMPUTATION CHECKED BY		F. R. Gustafson		DATE 1/25/74	
LISTED BY		DATE		LISTING CHECKED BY				DATE	
HAND PLOTTING BY		DATE		HAND PLOTTING CHECKED BY				DATE	

COMPILATION REPORT

TP-00515

31. DELINEATION:

Delineation was ^{on}by the Wild B-8 stereoplotter for all details, except the mean lower low water line, which was compiled graphically using the tide controlled photography. (See Form 76-36B*)

**Bound with this Descriptive Report.*

32. CONTROL:

See the attached Photogrammetric Plot Report dated January 1974.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

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

35. SHORELINE AND ALONGSHORE DETAILS:

Alongshore details were delineated ^{on}by 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:

Two dolphins are shown on Chart 8557 at Lat. $61^{\circ} 13.8'$, Long. $149^{\circ} 54.4'$ and at Lat. $61^{\circ} 14.0'$, Long. $149^{\circ} 53.9'$. These are not visible on the photographs and were not shown on the manuscript.

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.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

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

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following National Ocean Survey Chart: No. 8557, 13th edition, dated October 9, 1971, scale 1:40,000, with inset at 1:20,000 scale.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Charles Blood

C. E. Blood
Cartographic Technician
February 11, 1974

Approved for forwarding:

Albert C. Rauck, Jr.

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

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49. NOTES FOR THE HYDROGRAPHER:

These are noted on the Master Film Field Edit Ozalid.

ADDENDUM TO THE COMPILATION REPORT

TP-00515

FIELD EDIT

Field edit was adequate. One question concerning the content of the foreshore area was not answered sufficiently. A question concerning the existence of triangulation point Anchorage General Fish Co., Highest Warehouse, West Gable, 1941, was asked as it is not visible on photographs. No Triangulation Recovery Form 5-26 was submitted by the field party.

Field edit Photo 73K8846 showed two insignificant rocks which were not shown on the Class I Manuscript.

April 12, 1979

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7310 (Knik Arm - Anchorage, Alaska)

TP-00515


Anchorage

Knik Arm

Ship Creek

The Alaska Railroad

Approved by:


Charles E. Harrington
Chief Geographer, C3x5

NOAA FORM 75-74 (7-75)		U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW TP - 00515			
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 LON	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 LON	17. LANDMARKS LON	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
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 2/15/74		SUPERVISOR, REVIEW SECTION OR UNIT 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 David P. Butler 1/13/75		SUPERVISOR Albert C. Rauck, Jr.	
Reviewer L. O. Neterer, Jr. 1/19/75		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 and T-12016, in
Job CM-7310, referred to in this
Field Edit Report, are SECOND
EDITION MAPS. E. Rolle
9/24/79

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 $61^{\circ}22.0'$, the northern limit of shoreline control. Field edit was completed on the north side of Cook Inlet westward to Longitude $150^{\circ}37.0'$. Shoreline around Fire Island was inspected on the northwest side from North Point to West Point. Approximately 3 miles of shoreline were inspected 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 wherever 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 delineated 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 from Susitna 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 than a quarter mile off shore. The southern and eastern 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.

(2) (2) (2)

T-12006, T-12015, T-12016, 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 are recorded on the Field Edit Ozalid.

(2)

T-12007, T-12008(1)

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

(2) (2)

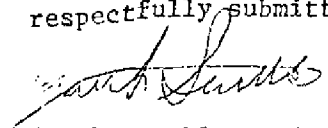
T-12003, T-12004, T-12005(2)

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

MANUSCRIPT-PHOTO INDEX

T-SHEET

T-12000
T-12003(2)
T-12004(2)
T-12005(2)
T-12007(2)
T-12008(2)
T-12014
T-12015(2)
T-12016(2)
T-12021
TP-00515

PHOTOS

66L-6673
73K-8871,8872
73K-8863
73K-8863,8864,8865
73K-8832,8833,8872,8873
73K-8835
66W-1328
73K-8828,8831
73K-8831,8832,8848
66L-6725
73K-8846,8847,

RANGER 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 RM3 1947 RM1 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	PIPE 1974	1-4	53 M	61	18	23.336	149 54 32.781
106	DAVE 1974	2	01 M	61	18	30.584	149 49 02.638
107	SKI 1974	1	44 M	61	19	24.380	149 47 05.491
108	ARM USE 1941 1964	3	09 M	61	21	38.090	149 53 20.460
109	LAP 1974	4	40 M	61	22	13.524	149 42 52.924
110	ROSE 1914 1964	2	24 M	61	25	22.216	149 40 45.257
111	PETERS W BASE 1922 1964	4	16 M	61	25	40.382	149 29 19.288
112	SIT 1966	2	17 M	61	15	51.370	150 12 37.662
113	RACE POINT RM3 1964	1	*53 M	61	10	04.983	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 1909	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

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*53 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 20.367
204	ANCHORAGE TV STA KENI MAST 1964	61	12 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 46.519	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	SANDRAC 1960 1964	61	14 40.491	149	52 21.193
211	SAVYET 2 USE 1963 1964	61	15 13.767	149	50 56.051
212	GLOBE BIE USE 1961 1964	61	17 01.974	149	49 22.604
213	MULE 1973	61	19 05.814	149	54 57.722
214	BIRCH USE 1941 1964	61	19 23.850	149	47 06.044
215	ARM USE RM3 1964	61	21 38.149	149	53 20.857
216	DAL 2 1973	61	22 19.513	149	43 06.059
217	SITE BAY RADOME 1964	61	23 42.762	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 22.603	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 19.148

REVIEW REPORT TP-00515
SHORELINE

June 28, 1979

61. GENERAL STATEMENT:

See Summary which is page 6⁷ 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-9438. No significant differences were noted.

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 (see Inset) There were no significant differences.

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:

June Byrd

Final Reviewer

Approved for forwarding:

Billy H. Bann

Chief Photogrammetric Branch, AMC

Approved:

John D. Perraw Jr.

Chief Photogrammetric Branch

D. K. H. 2082 FOR

Chief, ~~Photogrammetry~~ Coastal Mapping Division