

T- 12016 (2)

T-12016 (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-12016(2)
Classification No. Final	Edition No. 2
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.		TYPE OF SURVEY		SURVEY <del>TX</del> -12016(2)	
DESCRIPTIVE REPORT - DATA RECORD				<input type="checkbox"/> ORIGINAL		MAP EDITION NO. (2)	
				<input checked="" type="checkbox"/> RESURVEY		MAP CLASS Final	
				<input type="checkbox"/> REVISED		JOB PH. CM-7310	
PHOTOGRAMMETRIC OFFICE				LAST PRECEDING MAP EDITION			
Coastal Mapping Division Atlantic Marine Center, Norfolk, VA				TYPE OF SURVEY		JOB PH. 6013	
OFFICER-IN-CHARGE				<input checked="" type="checkbox"/> ORIGINAL		MAP CLASS I	
Jeffrey G. Carlen, Cdr., NOAA				<input type="checkbox"/> RESURVEY		SURVEY DATES:	
				<input type="checkbox"/> REVISED		19 63 TO 19 64	
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 checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify)			
3. MAP PROJECTION				4. GRID(S)			
Polyconic				STATE Alaska		ZONE 4	
5. SCALE 1:10,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY				R. Kelly		1/74	
METHOD: Analytic LANDMARKS AND AIDS BY				R. Kelly		1/74	
2. CONTROL AND BRIDGE POINTS PLOTTED BY				Robertson		1/74	
METHOD: Calcomp CHECKED BY				Robertson		1/74	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				L. O. Neterer, Jr.		2/74	
COMPILATION CHECKED BY				R. R. White		2/74	
INSTRUMENT: Wild B-8				CONTOURS BY		NA	
SCALE: 1:15,000				CHECKED BY		NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY				C. E. Blood		2/74	
CHECKED BY				A. L. Shands		2/74	
METHOD: Smooth Drafted				CONTOURS BY		NA	
CHECKED BY				NA			
SCALE: 1:10,000 HYDRO SUPPORT DATA BY				C. Blood		2/74	
CHECKED BY				A. L. Shands		2/74	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				A. L. Shands		2/74	
6. APPLICATION OF FIELD EDIT DATA BY				D. P. Butler		1/75	
CHECKED BY				L. O. Neterer, Jr.		1/75	
7. COMPILATION SECTION REVIEW BY				L. O. Neterer, Jr.		1/75	
8. FINAL REVIEW BY				Jim Byrd		6/79	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				Jim Byrd		7/79	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				E. L. Rolle		9/12/79	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				E. A. DAUGHERTY		NOV 1979	



NOAA FORM 76-36B  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYT-12016(2)  
COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E" & "K"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) <u>COLOR</u> (P) PANCHROMATIC (I) <u>INFRARED</u>		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) 9340	6/29/73	13:15	1:30,000	1.0 ft. above MLLW	
*73E(C) 9487 thru 9491	7/15/73	12:53	1:15,000	±0.2 ft. of MLLW	
*73E(C) 9469	7/13/73	12:02	1:30,000	±0.2 ft. of MLLW	
*73K(I) 8826 and 8827	7/13/73	12:02	1:30,000	±0.2 ft. of MLLW	
**73K(I) 8882 and 8883	7/16/73	07:00	1:30,000	±0.2 ft. of MHW	
*73K(I) 8845 thru 8850	7/15/73	12:53	1:15,000	±0.2 ft. of MLLW	

## REMARKS

\*Tide controlled photography.

## 2. SOURCE OF MEAN HIGH-WATER LINE:

\*\*The mean high water line was compiled from <sup>above listed</sup> 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 T-12007(2) ✓	EAST TP-00515 ✓ 1:5,000	SOUTH No Survey ✓	WEST T-12015(2) ✓
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## REMARKS

NOAA FORM 76-36C  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYT-12016(2)  
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 R. Melby	6/73
	ESTABLISHED BY None	
	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 None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION	
	<input type="checkbox"/> COMPLETE BY	
	<input type="checkbox"/> SPECIFIC NAMES ONLY	
	<input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
73E(C) 9340	SPENARD, 1964		

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. None



NOAA FORM 76-36C  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYT-12016(2)  
HISTORY OF FIELD OPERATIONSI. ☐ 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 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	5/74
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED  
None2. VERTICAL CONTROL IDENTIFIED  
NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

## 3. PHOTO NUMBERS (Clarification of details)

73K 8828 and 8848

## 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  
Field Edit Report

NOAA FORM 76-36D  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONT-12016(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.	1/75	Class I Manuscript	2/75	
Final Review	6/79	Final		

## 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	Landmark for deletion.
2		2/7/75	Landmark for charting.

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: February 7, 19753. ☐ 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 - 12016 (2)	JOB NUMBER PH - CM-7310	TYPE OF SURVEY <input type="checkbox"/> REVISED <input checked="" type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY 6/29/73-7/13/73	DATE OF FIELD EDIT 5/8/74	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input checked="" type="checkbox"/> FINAL	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	



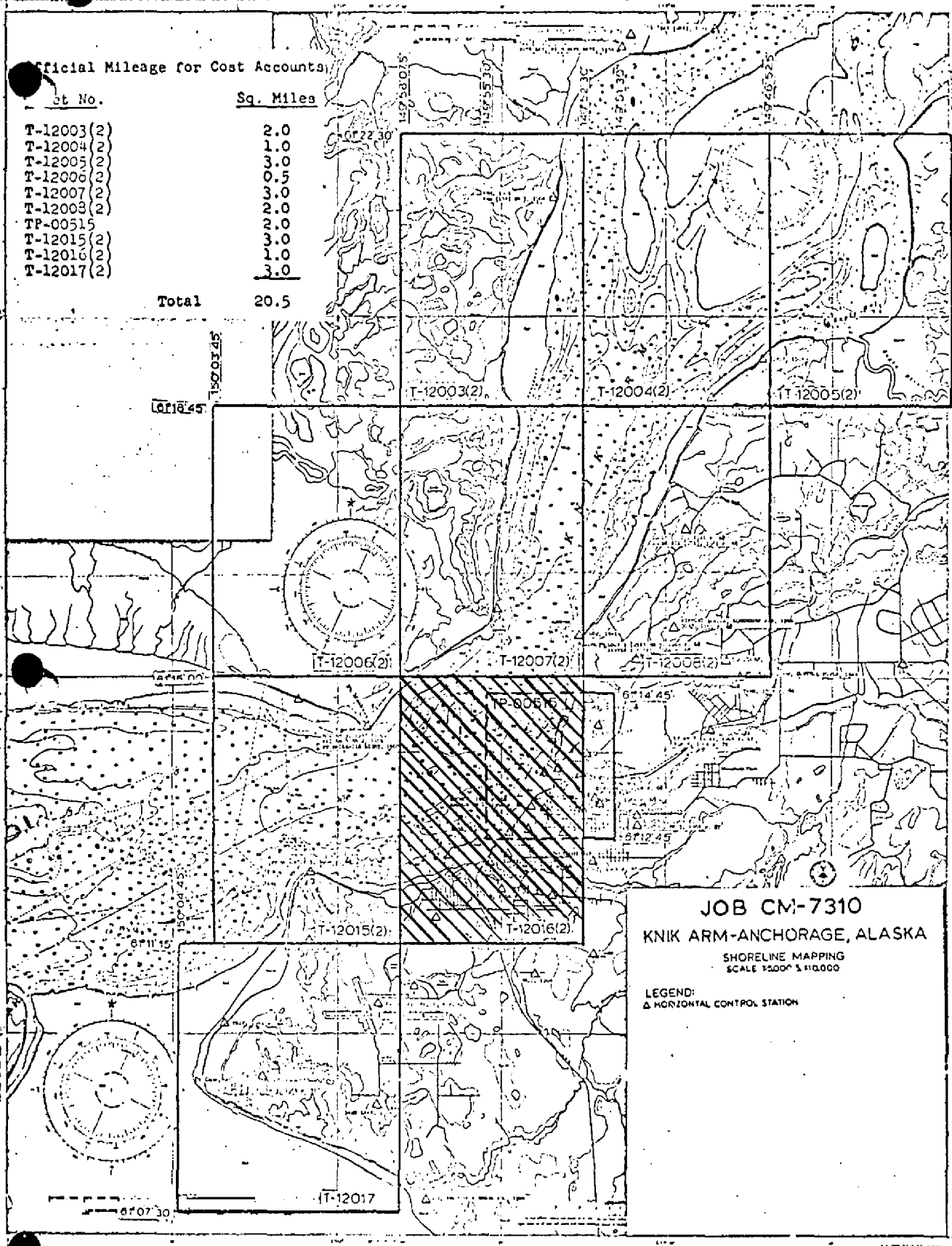
Official Mileage for Cost Accounts)

Set 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)	<u>3.0</u>

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 Class III Map since the field edit was "cancelled" at time of final review.

## FIELD INSPECTION

T-12016(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(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 cronapacue.) One cronapacue 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.

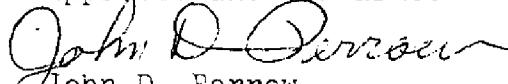
24. Supplemental Data

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

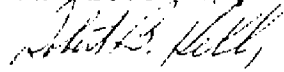
25. Photography

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

Approved and forwarded:

  
John D. Ferrow  
Chief, Aerotriangulation

Submitted by,

  
Robert B. Kelly



10

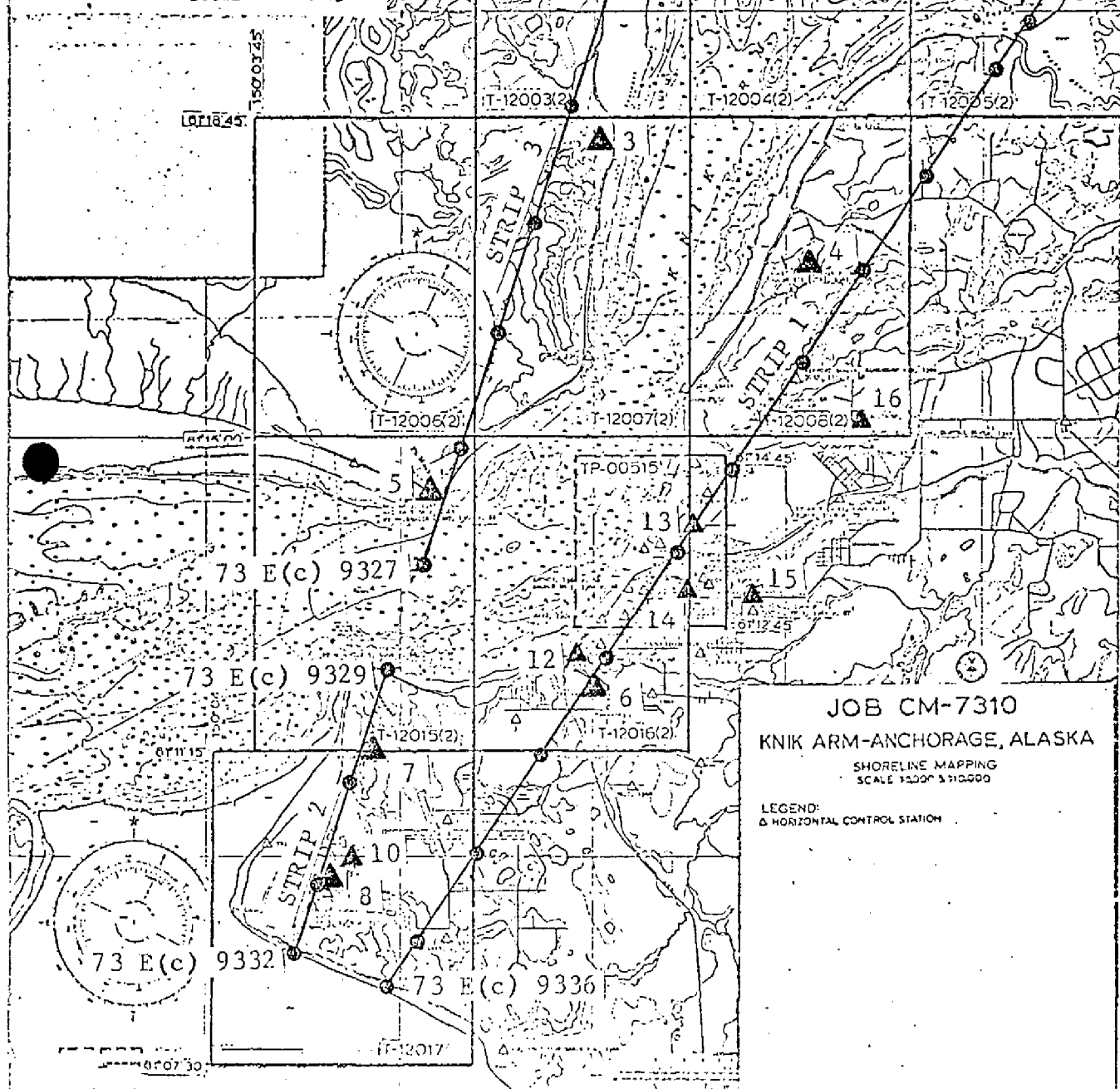
Sq. Miles

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)

2.0  
1.0  
3.0  
0.5  
3.0  
2.0  
2.0  
3.0  
1.0  
3.0

**Total**

20.5



JOB CM-7310

KNIK ARM-ANCHORAGE, ALASKA

SHORELINE MAPPING  
SCALE 1:2000 & 1:10000

LEGEND:  
A 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





## COMPILATION REPORT

T-12016(2)

31. DELINEATION:

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

\* Bound with this 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 <sup>on</sup>by the Wild B-8 stereoplotter and by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

Alongshore details were delineated <sup>on</sup>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:

Chart No. 8557 indicates a dolphin at Lat.  $61^{\circ} 13' 45''$ , Long.  $149^{\circ} 54' 30''$ ; it is not visible on the photographs and is 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, Cook Inlet to Goose Creek, 1:40,000 scale, with insert 1:10,000 scale, dated October 19, 1971.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

*Charles E. Blood*  
Charles E. Blood  
Cartographic Technician  
February 14, 1974

Approved for forwarding:

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

T-12016(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-12016 (2)

Anchorage '

Bootlegger Cove '

Chester Creek '


Fish Creek '

Knik Arm '

The Alaska Railroad '

Turnagain Heights '

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-12016(2)

1. PROJECTION AND GRIDS ALS	2. TITLE ACR	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 NA	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 <i>A. L. Shands</i>		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 D. Butler <i>D. Butler</i> 1/75		SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
Reviewed <i>Bozell O. Neterer, Jr.</i> L. O. Neterer, Jr. 1/21/75			
43. REMARKS  See Form 76-360, Item 8. A wrecked car stuck in mud was added from Field Edit Data. See reverse side of Field edit ratio photo 73K8848			



## 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  
9/24/79

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  $0^{\circ}$  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.

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 were recorded on the Field Edit Ozalid.

T-12007, T-12008

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

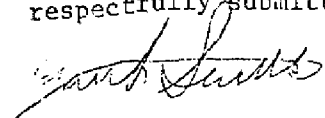
T-12003, T-12004, T-12005

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,



STATION	CODE	ELEV	LATITUDE	LONGITUDE
101 ZCF 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 23.836	149 54 32.781
106 DAVE 1974	2	21 M	61 18 20.584	149 49 02.638
107 SKI 1974	1	44 M	61 19 24.330	149 47 05.491
108 ADM USE 1941 1964	3	60 M	61 21 38.090	149 53 20.460
109 LAP 1974	4	40 M	61 22 13.504	149 42 59.924
110 ROSE 1914 1964	2	24 M	61 23 22.216	149 40 45.257
111 PETERS W BASE 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 RM3 1964	1	*53 M	61 10 04.983	150 13 21.466
114 NISEPY 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

\*\*\*\*\*  
\*53 M PRIOR TO 13JUL74

VISUAL SIGNALS	LATITUDE	LONGITUDE
201 SITE POINT RADOME 1964	61 09 34.034	150 01 54.683
202 PT MORONZOF 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 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 55.988	149 52 21.661
209 PT MACKENZIE LIGHT 1973	61 14 19.534	149 59 06.010
210 SANDRAG 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 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 PAL 2 1973	61 22 19.513	149 43 06.059
217 SITE BAY 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 MORONZOF 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 BARGE 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 MORONZOF RANGE FRONT LT 1974	61 12 09.025	150 01 11.115
226 PT MORONZOF 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 19.148



2414a

NOAA FORM 76-40  
(8-74)

Replaces C&amp;GS Form 567.

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
LANDMARKS FOR CHARTS

U.S. DEPARTMENT OF COMMERCE

## ORIGINATING ACTIVITY

☒ TO BE CHARTED  
☐ TO BE REVISED  
☐ TO BE DELETED
REPORTING UNIT  
(If field party, ship or office)  
Coastal Mapping Div.  
AMC - Norfolk, Va.STATE  
Alaska  
LOCALITY  
Knik Arm-AnchorageDATE  
Jan. 1975
☐ HYDROGRAPHIC PARTY  
☐ GEODETIC PARTY  
☐ PHOTO FIELD PARTY  
☒ COMPILATION ACTIVITY  
☐ FINAL REVIEWER  
☐ QUALITY CONTROL & REVIEW GRP.  
☐ COAST PILOT BRANCH  
 (See reverse for responsible personnel)
The following objects HAVE ☒ HAVE NOT ☐ been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.

469

JOB NUMBER

CM-7310

SURVEY NUMBER

T-12016(2)

DATUM

N.A. 1927

METHOD AND DATE OF LOCATION  
(See instructions on reverse side)CHARTS  
AFFECTEDCHARTING  
NAME  
DESCRIPTION  
(Record reason for deletion of landmark or aid to navigation.  
Show triangulation station names, where applicable, in parentheses)

LATITUDE

° / ' " D.M. Meters

LONGITUDE

° / ' " D.P. Meters

OFFICE

FIELD

RADIO  
TOWER(Anchorage Radio Station KENI,  
Tower, 1964)

61-12

25.2  
779.5

149-55

20.4  
304.173E(C) 9/489  
July 15, 1973Triang. Rec.  
May, 19748553  
8557~~CUPOLA~~~~Charted Landmark\*\*~~~~61-12.6~~~~149-54.2~~

~~\*\* No photogrammetric position possible.~~  
~~Field editor turned in no field~~  
~~position. Position estimated from chart.~~

orig. to charts  
2/5/75



NOAA FORM 76-40  
(8-74)

Replaces C&amp;GS Form 567.

~~NON-PERMANENT~~

LANDMARKS FOR CHARTS

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

ORIGINATING ACTIVITY

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

 REPORTING UNIT  
 (Field Party, Ship or Office)  
 Coastal Mapping Div.  
 AMC-Norfolk, Va.
STATE  
AlaskaLOCALITY  
Knik Arm-AnchorageDATE  
Jan. 1975
☐ HYDROGRAPHIC PARTY  
☐ GEODETIC PARTY  
☐ PHOTO FIELD PARTY  
☒ COMPILATION ACTIVITY  
☐ FINAL REVIEWER  
☐ QUALITY CONTROL & REVIEW GRP.  
☐ COAST PILOT BRANCH  
 (See reverse for responsible personnel)
The following objects HAVE ☒ HAVE NOT ☐ been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.

JOB NUMBER

SURVEY NUMBER

DATUM

N.A. 1927

469

CM-7310

T-12016(2)

METHOD AND DATE OF LOCATION  
(See instructions on reverse side)CHARTS  
AFFECTEDCHARTING  
NAMEDESCRIPTION  
(Record reason for deletion of landmark or aid to navigation.  
Show triangulation station names, where applicable, in parentheses)

LATITUDE

POSITION

LONGITUDE

OFFICE

FIELD

CHARTS  
AFFECTEDRADIO  
TOWER

KBYR Radio Tower

61-11

33.62  
104.1

149-54

00.47  
00773E(C) 9469  
July 13, 19738553  
8557orig. to charts  
2/5/75



## REVIEW REPORT T-12016(2)

## SHORELINE

June 5, 1979

61. GENERAL STATEMENT:

See Summary which is page <sup>7</sup>~~6~~ 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). 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. 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:

*Jim Byrd*  
Final Reviewer

Approved for forwarding:

*Billy H. Barn*  
Chief Photogrammetric Branch, AMC

Approved:

*John D. Perrow Jr.*  
Chief Photogrammetric Branch

*John D. Perrow Jr.*  
Chief, Coastal Mapping Division