

T-12017

T-12017

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-12017
Classification No. III Edition No. 1

LOCALITY

State Alaska
General Locality Knik Arm - Anchorage
Locality Point Campbell

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 OFFICER-IN-CHARGE Jeffrey G. Carlen, Cdr., NOAA		SURVEY TF 12017 MAP EDITION NO. (1) MAP CLASS III JOB CM-7310	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Atlantic Marine Center, Norfolk, VA 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 checked="" 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 1:10,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	
1. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS BY		R. Kelly 1/74 R. Kelly 1/74	
2. CONTROL AND BRIDGE POINTS METHOD: Calcomp PLOTTED BY CHECKED BY		Robertson 1/74 Robertson 1/74	
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:15,000		L. O. Neterer, Jr. 2/74 R. R. White 2/74 NA NA	
4. MANUSCRIPT DELINEATION METHOD: Smooth Drafted SCALE: 1:10,000		C. Blood 2/74 A. L. Shands 2/74 NA NA C. Blood 2/74 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		L. O. Neterer, Jr. 1/75	
One Landmark CHECKED BY		C. E. Blood 1/75	
7. COMPILATION SECTION REVIEW BY		C. Blood 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 9/79	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		E. L. DAUGHERTY NOV 1979	

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-12017
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) 9330 thru 9332	6/29/73	12:58	1:30,000	0.8 ft. below MLLW	
73E(C) 9336 thru 9338	6/29/73	13:15	1:30,000	1.0 ft. above MLLW	
*73E(C) 9448 thru 9450	7/13/73	11:38	1:30,000	±0.2 ft. of MLLW	
*73E(C) 9453 and 9454	7/13/73	11:45	1:30,000	±0.2 ft. of MLLW	
*73K(I) 8811 and 8812	7/13/73	13:21	1:30,000	±0.2 ft. of MLLW	
*73K(I) 9906 thru 8808	7/13/73	11:38	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 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-12015(2) ✓	EAST No Survey ✓	SOUTH No Survey ✓	WEST PH-6013 ✓ T-12014
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REMARKS

T-12017
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 R. Melby	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) 9331	POINT 2 (USE), 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)

T-12017

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 None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION	
	<input type="checkbox"/> COMPLETE BY	
	<input type="checkbox"/> SPECIFIC NAMES ONLY	
	<input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

1 Field Edit Ozalid (unedited, except for one landmark)

1 Form 76-40

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	3/74	3/74
No field edit accomplished. One landmark submitted.	1/75	Class III Manuscript	2/75	
Final Review	6/79	Class III Manuscript		

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 charting.

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:

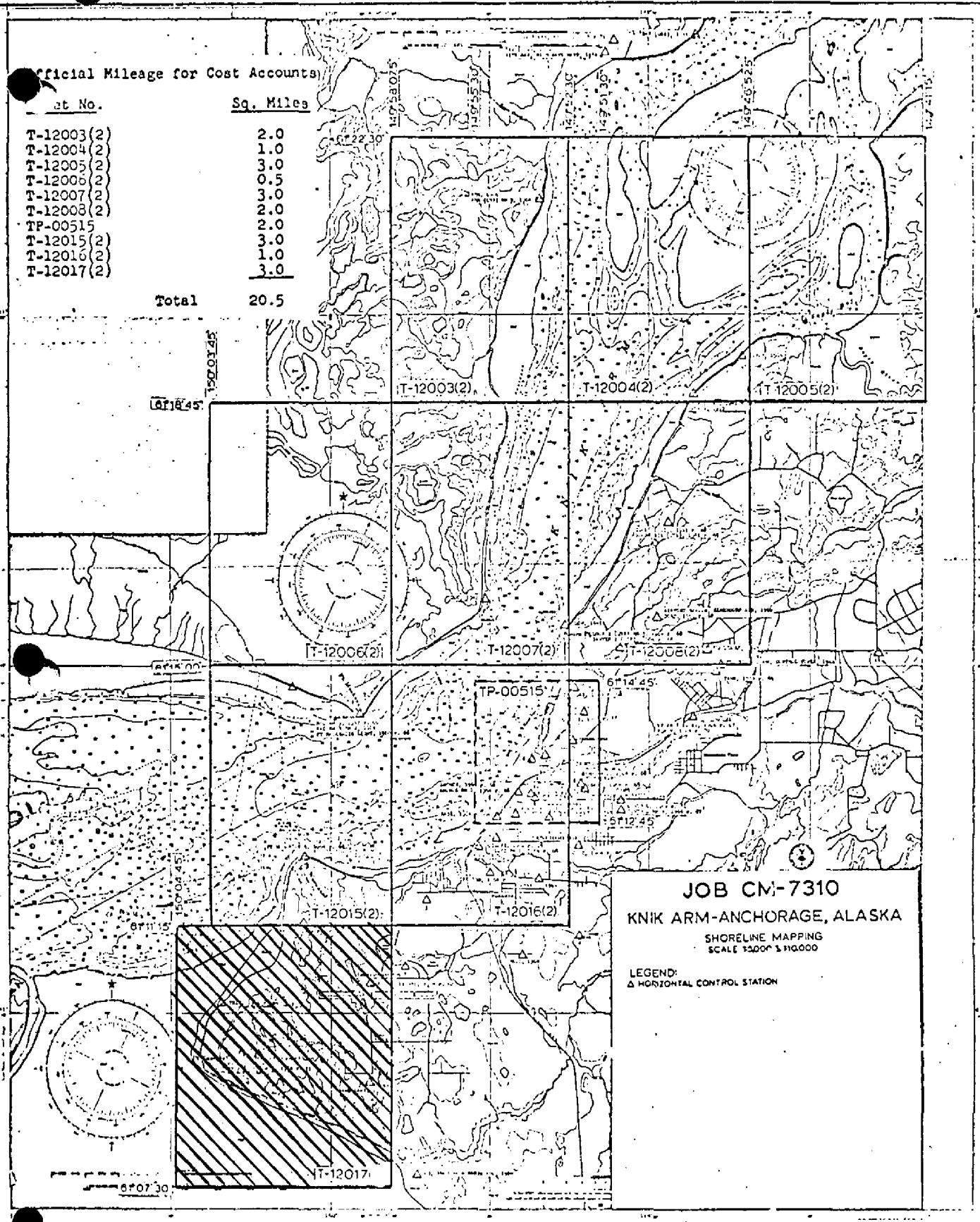
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)				
SECOND EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY	
	TP - _____ (2)	PH - _____	<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
THIRD EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY	
	TP - _____ (3)	PH - _____	<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	JOB NUMBER	TYPE OF SURVEY	
	TP - _____ (4)	PH - _____	<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

at 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



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-12017

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 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.

Approved and forwarded:

John D. Ferrow
John D. Ferrow
Chief, Aerotriangulation

Submitted by,

Robert B. Kelly
Robert B. Kelly

Official Mileage for Cost Accounts

Sheet No.

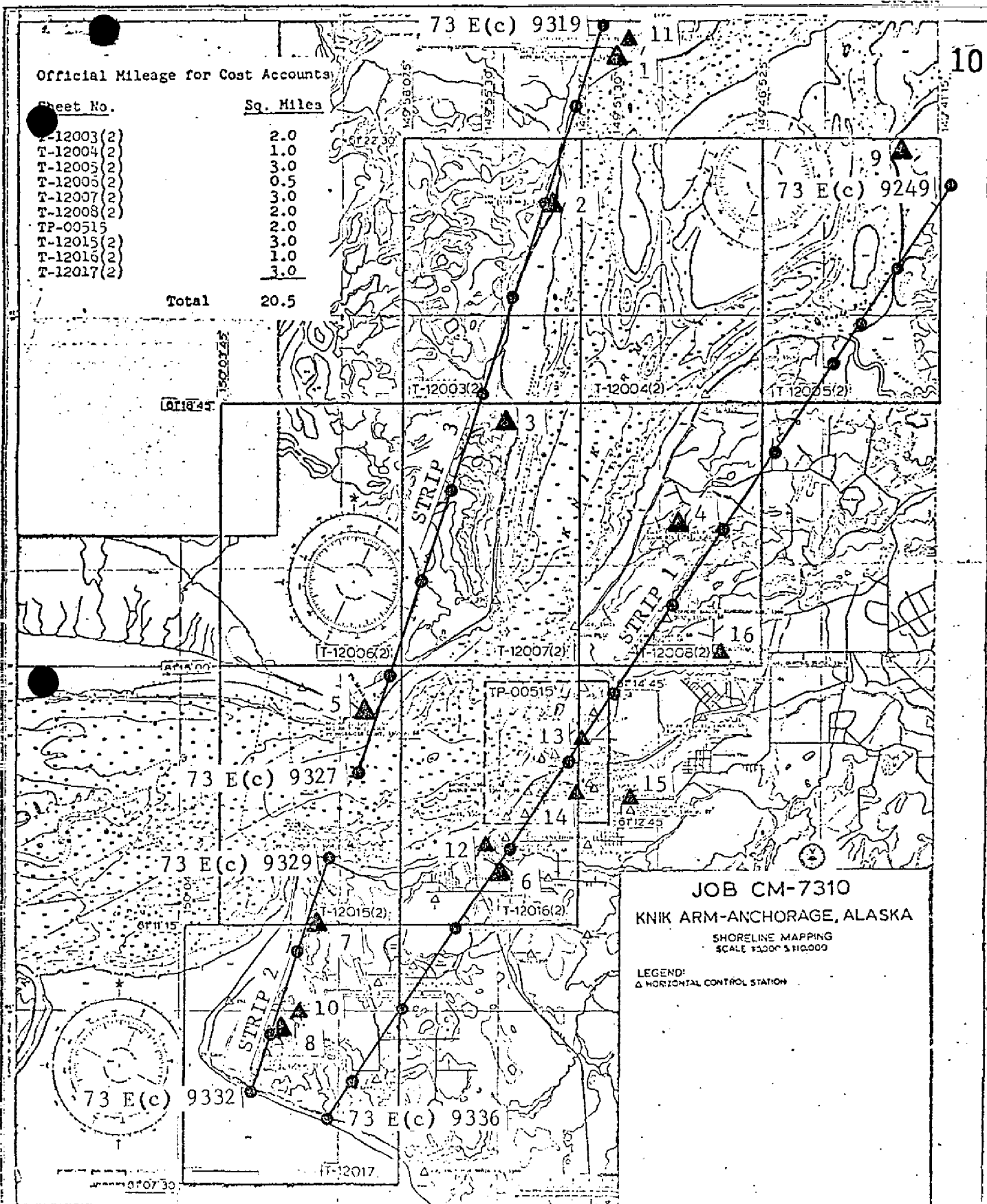
Sq. Miles

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)

2.0
1.0
3.0
0.5
3.0
2.0
2.0
3.0
1.0
3.0

Total

20.5



- 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.	JOB NO.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	GEODETTIC DATUM		ORIGINATING ACTIVITY		REMARKS	
					NA	1927	Division, AMC, Norfolk, Virginia	Coastal Mapping		
					COORDINATES IN FEET		GEOGRAPHIC POSITION			
					STATE	ZONE	ϕ LATITUDE	λ LONGITUDE	FORWARD	BACK
TRIP, 1941		✓	Quad 61150 P. 001		X=		ϕ	61 10 12.171	376.7	(1480.5)
					Y=		λ	150 03 27.843	416.3	(480.7)
POINT 2 (USE), 1964			Quad 611502 P. 045		X=		ϕ	61 09 23.47496	726.6	(1130.6)
					Y=		λ	150 02 14.97119	223.9	(673.5)
SITE POINT RADOME, 1964 ✓			Quad 611502 P. 047		X=		ϕ	61 09 34.03449	1053.5	(803.7)
					Y=		λ	150 01 54.68726	817.9	(79.4)
					X=		ϕ			
					Y=		λ			
					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	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

T-12017

31. DELINEATION:

All detail was compiled from stereoscopic models produced on the Wild B-8 stereoplotter. 1:30,000 scale color photography was used.

Due to the lack of water surface coverage and the monotone characteristic of the mud flat areas around Campbell Point, the compiler was not able to adequately level his models. This made the identification of the mean high water line difficult.

Tide controlled infrared photography was used for the graphic delineation of the mean lower low water line.

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 ~~by~~ the Wild B-8 stereoplotter and by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

Alongshore details were delineated ~~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:

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.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

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

47. COMPARISON WITH NAUTICAL CHARTS:

47.

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

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 25, 1974

Approved for forwarding:

Albert C. Rauck, Jr.

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

T-12017

49. NOTES FOR THE HYDROGRAPHER:

Because of the lack of water surface and other vertical control, the stereoplotter operator was not able to adequately level his models. This, coupled with the monotone characteristic of the mud flats around Point Campbell, made the identification of the mean high water line difficult.

Please confirm the line delineated by giving measurements to the mean high water line from photo identifiable points.

11
April 12, 1979

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7310 (Knik Arm - Anchorage, Alaska)

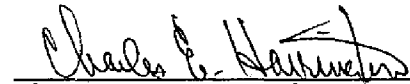
TP-12017

Knik Arm

Point Campbell

Turnagain Arm

Approved by:



Charles E. Harrington
Chief Geographer, C3x5

FORM C&GS-1002 (9-66)		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW			
T- 12017			
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) ALS	7. PHOTO HYDRO STATIONS ALS	
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES CB	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 NA
16. AIDS TO NAVIGATION CB	17. LANDMARKS CB	18. OTHER ALONGSHORE PHYSICAL FEATURES ALS	19. OTHER ALONGSHORE CULTURAL FEATURES ALS
PHYSICAL FEATURES			
20. WATER FEATURES ALS	21. NATURAL GROUND COVER NA	22. PLANETABLE CONTOURS NA	
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	26. OTHER PHYSICAL FEATURES ALS
CULTURAL FEATURES			
27. ROADS ALS	28. BUILDINGS ALS	29. RAILROADS ALS	30. OTHER CULTURAL FEATURES ALS
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES ALS	34. JUNCTIONS ALS	35. LEGIBILITY OF THE MANUSCRIPT ALS	
36. DISCREPANCY OVERLAY ALS	37. DESCRIPTIVE REPORT ALS	38. FIELD INSPECTION PHOTOGRAPHS NA	39. FORMS ALS
40. REVIEWER A. L. Shands		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr.	
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 L. O. Neterer, Jr.	1/07/75	SUPERVISOR Albert C. Rauck, Jr.	
Reviewer C. E. Blood	1/10/75	Albert C. Rauck, Jr.	
43. REMARKS Field edit not done. Only one landmark recovered. 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.

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.

T-12007, T-12008

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

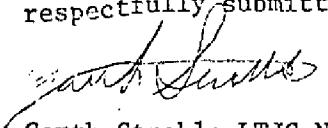
T-12003, T-12004, T-12005

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 flight 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,

DANGER STATIONS		CODE	ELEV	LATITUDE		LONGITUDE	
101	ZOF 1974	4-2-4-3	43 E	61	12	15.360	150 00 49.560
102	ANCHOR 1964 (ECC)	2-1	29 N	61	13	11.576	149 54 05.541
103	MAC RM3 1947 RM1 1960	3	28 N	61	14	19.454	149 59 05.884
104	KEN 1974	3	28 E	61	14	20.461	149 58 56.770
105	PIPE 1974	1-4	53 E	61	18	22.036	149 54 32.781
106	DAVE 1974	2	21 E	61	18	30.504	149 49 02.633
107	SKI 1974	1	44 E	61	19	24.380	149 47 05.491
108	ARM USE 1941 1964	3	60 E	61	21	38.990	149 53 20.460
109	LAD 1974	4	40 E	61	22	13.504	149 42 59.924
110	FUSE 1914 1964	2	24 E	61	20	22.216	149 40 45.257
111	PETERS V BAGE 1922 1964	4	16 E	61	25	40.302	149 29 19.288
112	SIT 1966	2	17 N	61	15	51.370	150 12 37.662
113	RACE POINT RM3 1964	1	*53 E	61	10	04.988	150 13 21.466
114	WISERY 3 1944	4	25 E	61	16	38.012	150 28 14.734
115	FIRE ISLAND LT 1966	3-2-4	12 E	61	07	35.754	150 16 48.987
116	POSSESSION 1909	2-3	37 E	61	02	16.381	150 23 43.391
117	PHILLIPS PLATFORM A 1974	2	36 E	61	04	36.172	150 56 53.605
118	DITCH HILL USE 1941	4	48 E	60	55	16.723	150 44 58.088
119	MOOSE POINT LT 1966	4	12 E	60	57	22.872	150 41 01.945
120	RACE POINT LT 1966	1	61 E	61	10	17.462	150 12 35.026

*50 M PRIOR TO 13JUL74

VISUAL SIGNALS		LATITUDE		LONGITUDE	
201	SITE POINT RADONE 1964	61	09	34.034	150 01 54.683
202	PT WORNZOF 6 1969	61	12	11.079	150 00 50.182
203	ANCH RADIO STA KENI TWR 1954 1964	61	12	25.181	149 55 26.367
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	46.510	149 52 35.348
208	ANCH ACS MICROVAVE 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	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	EWLE 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 RADONE 1964	61	23	48.762	149 51 10.551
218	AIRPORT BEACON ELMENDORF AFB 1960	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 WORNZOF INTAKE TANK 1974	61	12	15.438	150 01 00.889
222	FIRE ISLAND FAA RADONE 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 WORNZOF RANGE FRONT LT 1974	61	12	09.025	150 01 11.115
226	PT WORNZOF 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

RESPONSIBLE PERSONNEL		ORIGINATOR
TYPE OF ACTION	NAME	
OBJECTS INSPECTED FROM SEAWARD	Garth Stroble, Lt(jg)	<input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	Garth Stroble, Lt.(jg)	FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	Lowell O. Neterer, Jr.	OFFICE ACTIVITY REPRESENTATIVE
		<input type="checkbox"/> REVIEWER <input type="checkbox"/> 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)

8. 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-12017

SHORELINE

June 20, 1979

61. GENERAL STATEMENT:

This map will be registered as a Class III. 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-9441. 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. Perreault Jr.
Chief Photogrammetric Branch

Robert R. For
Chief ~~Photogrammetry~~ Coastal Mapping Division