

T-13192 ORIGINAL

T-13192

NOAA FORM 76-35

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

### DESCRIPTIVE REPORT

Type of Survey ..... Shoreline .....

Job No. .... PH-6715 ..... Map No. T-13192 .....

Classification No. .... Edition No. 1 .....

Field Edited Map

#### LOCALITY

State ..... Alaska .....

General Locality ..... Middleton Island .....

Locality ..... Middleton Island, NE .....

1967 TO 1969

#### REGISTRY IN ARCHIVES

DATE .....

NOAA FORM 76-36A (3-72) <span style="float: right;">U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.</span>	TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY <u>XR-T-13192</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB PH. <u>6715</u>
DESCRIPTIVE REPORT - DATA RECORD		

PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Atlantic Marine Center, Norfolk, Virginia 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
Bridging Compilation	7/26/67 9/08/67

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 <u>Alaska</u> ZONE <u>4</u>
5. SCALE 1:10,000	STATE _____ ZONE _____

III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY METHOD: <u>Stereoplanigraph</u> LANDMARKS AND AIDS BY	Robert B. Kelly	8/67
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Co-ordinatorgraph</u> CHECKED BY	J. Steinberg F. Wilson	8/67 8/67
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: <u>Wild B-8</u> CONTOURS BY SCALE: <u>1:3,333</u> CHECKED BY	F. P. Margiotta NA NA	10/67
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: <u>Smooth Drafted</u> CONTOURS BY CHECKED BY SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY CHECKED BY	F. P. Margiotta C. H. Bishop NA NA F. P. Margiotta C. H. Bishop	10/67 11/67
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	C. H. Bishop	11/67
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY	R. R. White B. Barge	3/70 3/70
7. COMPILATION SECTION REVIEW BY	B. Barge	3/70
8. FINAL REVIEW BY	C. H. Bishop	6/77
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	C. H. Bishop	7/77
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	<u>D. Brant</u>	<u>7/77</u>
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	<u>R. Cator</u>	<u>10/77</u>

T-13192  
**COMPILATION SOURCES**

**1. COMPILATION PHOTOGRAPHY**

CAMERA(S) Wild RC-8 "L" and "K"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		X (C) COLOR (P) PANCHROMATIC X (I) INFRARED		ZONE Alaska - Hawaii <input checked="" type="checkbox"/> STANDARD MERIDIAN 150th <input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
*67L(C) 3807 thru 3810	7/02/67	11:31	1:20,000	4.7 ft. above MLLW	
*67L(C) 3832 thru 3837	7/07/67	08:54	1:20,000	2.8 ft. above MLLW	
*67L(C) 3859 thru 3862	7/07/67	09:02	1:20,000	2.8 ft. above MLLW	
67L(I) 4184 thru 4186	7/10/67	14:44	1:20,000	8.2 ft. above MLLW	
67L(I) 4178 thru 4181	7/10/67	14:32	1:20,000	8.2 ft. above MLLW	
69K(I) 4129 and 4130	8/15/69	09:27	1:20,000	1.0 ft. below MLLW	
69K(I) 4150 thru 4153	8/15/69	09:38	1:20,000	0.5 ft. below MLLW	

REMARKS

\*Bridge and compilation photography.

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

Delineation by field editor on Photo 67 L(C) 3860; office interpretation of Photo 69 K(I) 4131 between Lat. 59° 27.7' to Lat. 59° 28.25' (west side of north end of island).

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

Office interpretation of Photos 67L(C) 3832, 3834, 3836, 3860, and 3862 verified by comparison with 69 K(I) 4131 and 4132 and 4150 thru 4153.

69 K(I) 4131 was used to correct the MLLWL around the north tip of the island.

**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	No	EAST	No	SOUTH	T-13194	WEST	T-13191
Contemporary Survey		Contemporary Survey					

REMARKS

NOAA FORM 76-36C (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
T-13192 <b>HISTORY OF FIELD OPERATIONS</b>			
I. <input checked="" type="checkbox"/> FIELD INSPECTION OPERATION		<input type="checkbox"/> FIELD EDIT OPERATION	
OPERATION	NAME	DATE	
1. CHIEF OF FIELD PARTY	Robert B. Melby	5-6/67	
2. HORIZONTAL CONTROL	RECOVERED BY	R. B. Melby	5-6/67
	ESTABLISHED BY	R. B. Melby	5-6/67
	PRE-MARKED <del>OR IDENTIFIED</del> BY	R. B. Melby	5-6/67
3. VERTICAL CONTROL	RECOVERED BY	NA	
	ESTABLISHED BY	R. B. Melby	5-6/67
	<del>RECOVERED OR IDENTIFIED</del> BY	R. B. Melby	5-6/67
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED ( <i>Triangulation Stations</i> ) BY	R. B. Melby	6/67
	LOCATED ( <i>Field Methods</i> ) BY	None	
	PREMARKED <del>OR IDENTIFIED</del> BY	R. B. Melby	6/67
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	R. B. Melby	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	
<b>II. SOURCE DATA</b>			
1. HORIZONTAL CONTROL <del>IDENTIFIED</del>		2. VERTICAL CONTROL IDENTIFIED	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
67 L(C) 3833	AIRPORT BEACON, MIDDLETON ISLAND AIRPORT, 1965	64 S(C) 6968	BM 1 (1933)
67 L(C) 3836	MIDDLETON, 1933	64 S(C) 6966	BM 7 (1966)
67 L(C) 3832	SPIT 2, 1967, R.M. 1		
3. PHOTO NUMBERS ( <i>Clarification of details</i> ) Field Inspection, May 1967, can be found on the following color transparencies: 64 S(C) 6965 thru 6968, 6984, 6985, 6987, and 6997.			
4. LANDMARKS AND AIDS TO NAVIGATION <del>IDENTIFIED</del> PREMARKED			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
67 L(C) 3833	AIRPORT BEACON, MIDDLETON ISLAND AIRPORT, 1965		
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS  None			
8. OTHER FIELD RECORDS ( <i>Sketch books, etc. DO NOT list data submitted to the Geodesy Division</i> ) Field Inspection Report 3 CSI Cards (Form 152)			

T-13192  
HISTORY OF FIELD OPERATIONS

I.  FIELD INSPECTION OPERATION  FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	John B. Watkins, Jr.	6-8/69
2. HORIZONTAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA	
	NA	
	NA	
3. VERTICAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA	
	NA	
	NA	
4. LANDMARKS AND AIDS TO NAVIGATION RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	J. B. Wintermyre	8/69
	NA	
	NA	
5. GEOGRAPHIC NAMES INVESTIGATION TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION		
6. PHOTO INSPECTION CLARIFICATION OF DETAILS BY		
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY		

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED: None  
2. VERTICAL CONTROL IDENTIFIED: None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)  
67 L(C) 3858, 3860 and 3862

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  
None. Form 567 was submitted by the hydrographic party in September 1969. A copy is bound with this Descriptive Report.

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)  
Field Edit Ozalid  
Field Edit Report

NOAA FORM 76-36D  
(3-72)

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

T-13192  
**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.	11/67	Class III Manuscript Superseded	12/67	
Field edit applied. Compilation complete.	3/70	Class I Manuscript		
Foul areas and MLLW line revised from 1969 photography.	1/77	Class I Manuscript Superseded		
Final Review	6/77	Final	6/77	<del>6/77</del>

**II. LANDMARKS AND AIDS TO NAVIGATION**

**1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH**

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		9/69	Form 567 forwarded by Ship FAIRWEATHER. Copy bound with this report. Not duplicated by Photogrammetry.

2.  REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_  
 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	

# JOB PH-6715

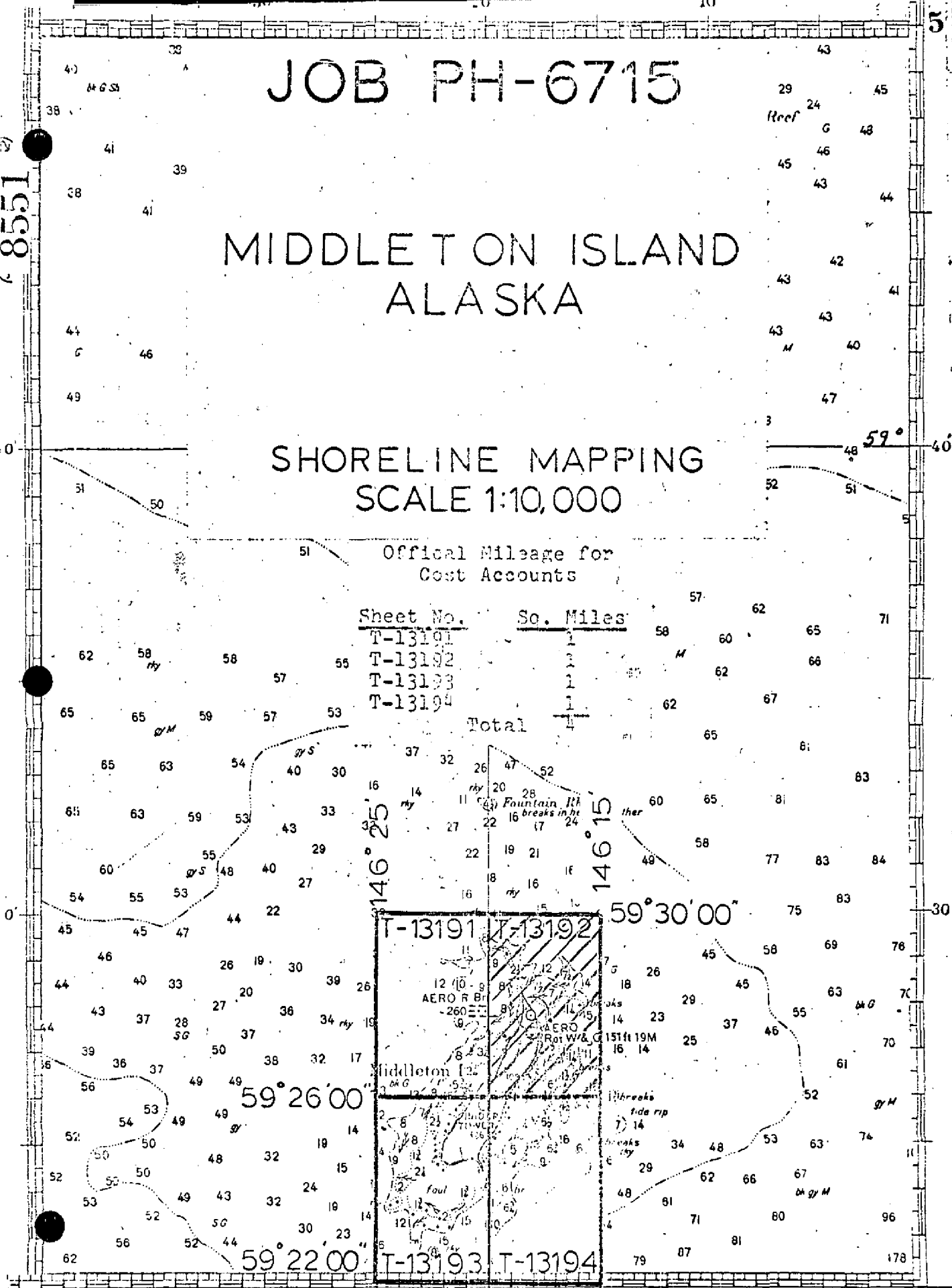
## MIDDLETON ISLAND ALASKA

### SHORELINE MAPPING SCALE 1:10,000

Official Mileage for  
Cost Accounts

Sheet No.	So. Miles
T-13191	1.1
T-13192	1.1
T-13193	1.1
T-13194	1.1
<b>Total</b>	<b>4.4</b>

8551



146° 25'

146° 15'

59° 26' 00"

59° 22' 00"

59° 30' 00"

T-13191 T-13192

12 10 - 9  
AERO R BR  
-260

Middleton Is.

T-13193 T-13194

## SUMMARY

## DESCRIPTIVE REPORTS P-13191 through P-13194

Project FF-6715 is comprised of four 1:10,000 scale shoreline maps covering M Idiston Island, Alaska, approximately 45 miles southwest of Montague Island, in the Gulf of Alaska. It is within the area affected by the earthquake of March 1964.

The purpose of the project is to provide photo-hydro support for contemporary hydrographic surveys and up-to-date shoreline for nautical charts.

Field inspection in May and June 1967 was not complete. No mean high water line was clarified. The foreshore and interior details were clarified, some additional horizontal control was established, and horizontal control required for bridgeing was premarked. Photography used by the field inspector was 1:10,000 scale color transparencies taken in August 1967.

A stereoplanigraph bridge was run in the Rockville Office in August 1967, using color photography taken in July 1967.

Initial compilation was done at the Atlantic Marine Center in October 1967 and classified "ALFA III" because it was prechecked by field inspection. Under present policy, classification would be "GASS III" because, even though there was field inspection, it was incomplete. Tide controlled color photography taken in July 1967 at half tide or less was used for interior details, foreshore area classification, foul lines, mean lower low water line, and rocks. Because of uplift caused by the earthquake and the structure of the foreshore and offlying area, office interpretation of the photographs was difficult. Interpretation of the mean lower low water line was especially difficult. The roughness of the sea at the time of photography caused more breaker action over and around rocks, making them more difficult to interpret. In some places where breakers indicated rocks on the color photographs taken at a 3-foot stage of tide, no rocks were apparent on infrared photographs taken at a minus 3-foot tide. The mean high water line was graphically computed from office interpretation, using the tide controlled high water infrared photography taken in July 1967.



Field edit was done in the summer of 1969 by the Ship FAIRWEATHER and applied to the manuscripts at the Atlantic Marine Center in March 1970. The entire mean high water line was identified on the 1967 color photography by the field editor. Field clarification of this line was not in agreement with office interpretation - the entire mean high water line was corrected on the manuscripts. Foul lines were revised and rocks not found by the field editor were deleted. The only rock height data given by the field editor was for Map T-13192.

Final review was done at the Atlantic Marine Center in June 1977. Comparison with the contemporary hydrographic surveys revealed that topographic information on the smooth sheets for these surveys was transferred from the manuscripts before field edit application. When field edit was applied, numerous changes were made which have not been carried forward to the smooth sheets of the hydrographic surveys.

The original manuscripts were compiled on vinylite sheets on a format 4 minutes in latitude by 5 minutes in longitude. They were forwarded to the Rockville Office for preparation of registration copies.

FIELD INSPECTION REPORT  
Project Ph-6715  
Middleton Island, Alaska  
May-June 1967

3. HORIZONTAL CONTROL:

Horizontal control was established by triangulation and electronic traverse methods to locate the stations required for the control of the aerial triangulation and hydrographic surveys. Four marked stations were established and four previously located intersection stations were redetermined. Two no-check position traverse stations were located by the usual steel tape traverse methods. They are reference marks.

Five of the horizontal stations were panelled with white, opaque plastic triangles for photo-identification. Form 152 control station identification forms were completed for each station.

4. VERTICAL CONTROL

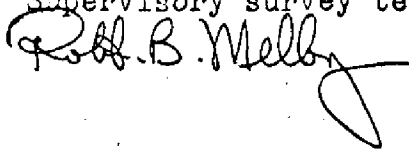
Vertical control consisted of establishing a tide staff for the control of the mean high water photography. The tidal datum of 1966 (Δ MIDDLETON, 1933) was the basis for the vertical datum to determine the mean high water value on the tide staff. A connection was made with the bench marks set in 1933. A 24 hour tide observation series on the tide staff was completed. The data is being forwarded to Chief, Tides.

5. OFFSHORE FEATURES

The entire foreshore area was visually inspected by a field party. Along the eastern shore of the island are extensive ledge-like features consisting of hard clay, hard clay with boulders or a sand, gravel, boulder conglomerate. No solid bedrock was detected on the island. Certain foreshore areas were strewn with smooth detached boulders. Hard clay ledge-like features are apparent along the west shore of the island.

The composition of the foreshore has been indicated on the field, color transparencies.





Submitted by  
Robert B. Melby  
Supervisory survey technician C&GS

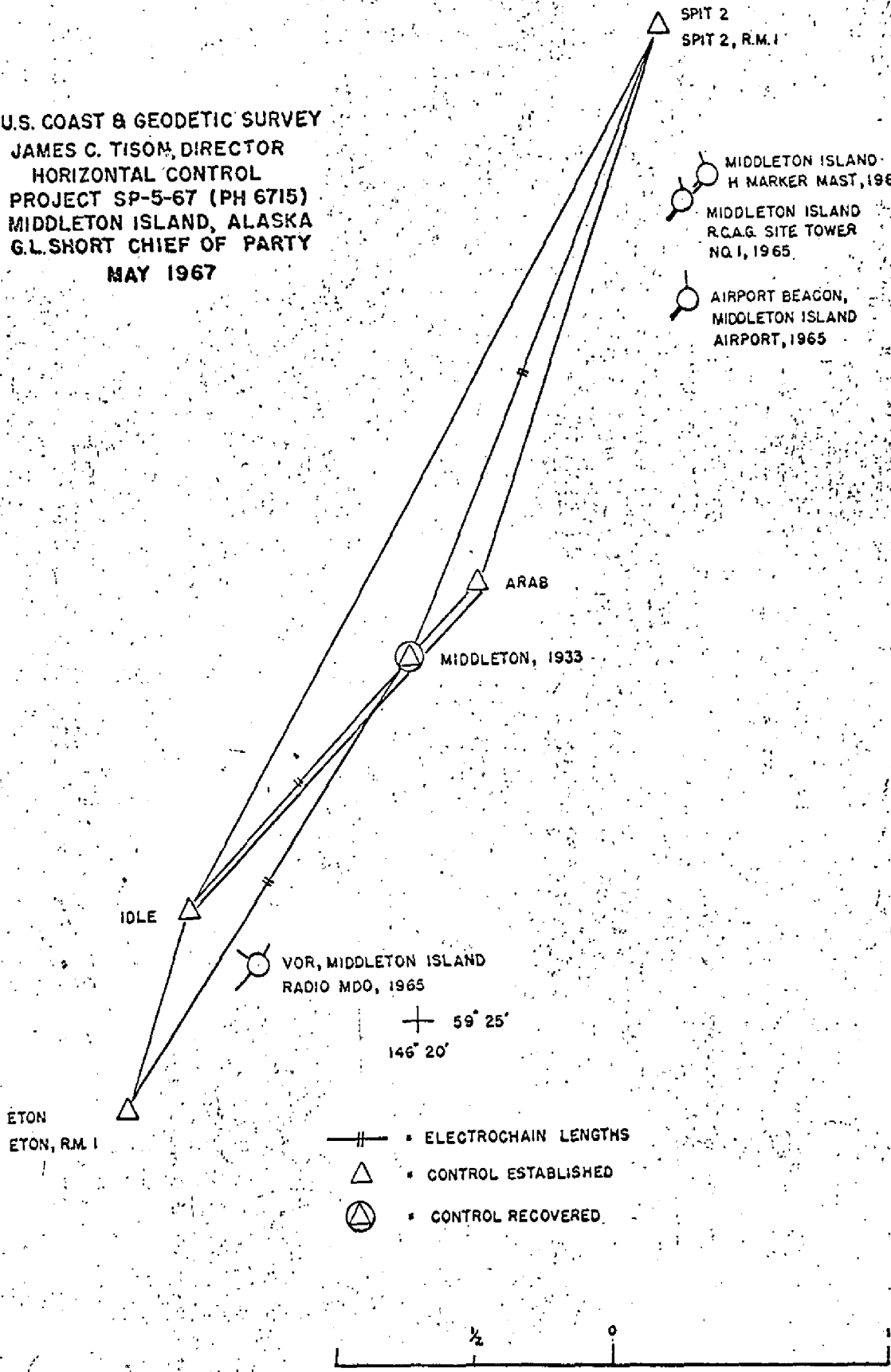





Approved

G.L. Short  
CDR, USESSA  
Cmdg. Ship  
PATHFINDER

U.S. COAST & GEODETIC SURVEY  
 JAMES C. TISON, DIRECTOR  
 HORIZONTAL CONTROL  
 PROJECT SP-5-67 (PH 6715)  
 MIDDLETON ISLAND, ALASKA  
 G.L. SHORT CHIEF OF PARTY  
 MAY 1967

-  SPIT 2  
SPIT 2, R.M. I
-  MIDDLETON ISLAND  
H MARKER MAST, 1965
-  MIDDLETON ISLAND  
R.C.A.G. SITE TOWER  
NO. 1, 1965.
-  AIRPORT BEACON,  
MIDDLETON ISLAND  
AIRPORT, 1965



-  ELECTROCHAIN LENGTHS
-  CONTROL ESTABLISHED
-  CONTROL RECOVERED

59° 25'  
 146° 20'



PHOTOGRAMMETRIC PLOT REPORT  
Job PH-6715  
Middleton Island, Alaska

August 21, 1967

21. Area Covered

The area covered consists of Middleton Island, Alaska, and includes T-sheets T-13191 thru T-13194.

22. Method

A stereoplanigraph bridge consisting of five models, 67-L(C)-3832, 3834, 3836, 3838, 3840 and 3841, was run to provide points for B-8 compilation. Also provided were points to ratio both color and infrared photography in the immediate area. The bridge was controlled and adjusted on five horizontal stations.

23. Adequacy of Control

Control was adequate and complied with job instructions. All horizontal control held within National Map Accuracy Standards. All control is 1967 unadjusted field positions.

24. Supplemental Data

None

25. Photography

Photography was adequate as to coverage, overlap and definition.

Submitted by:

*ROBERT B KELLY*  
Robert B. Kelly

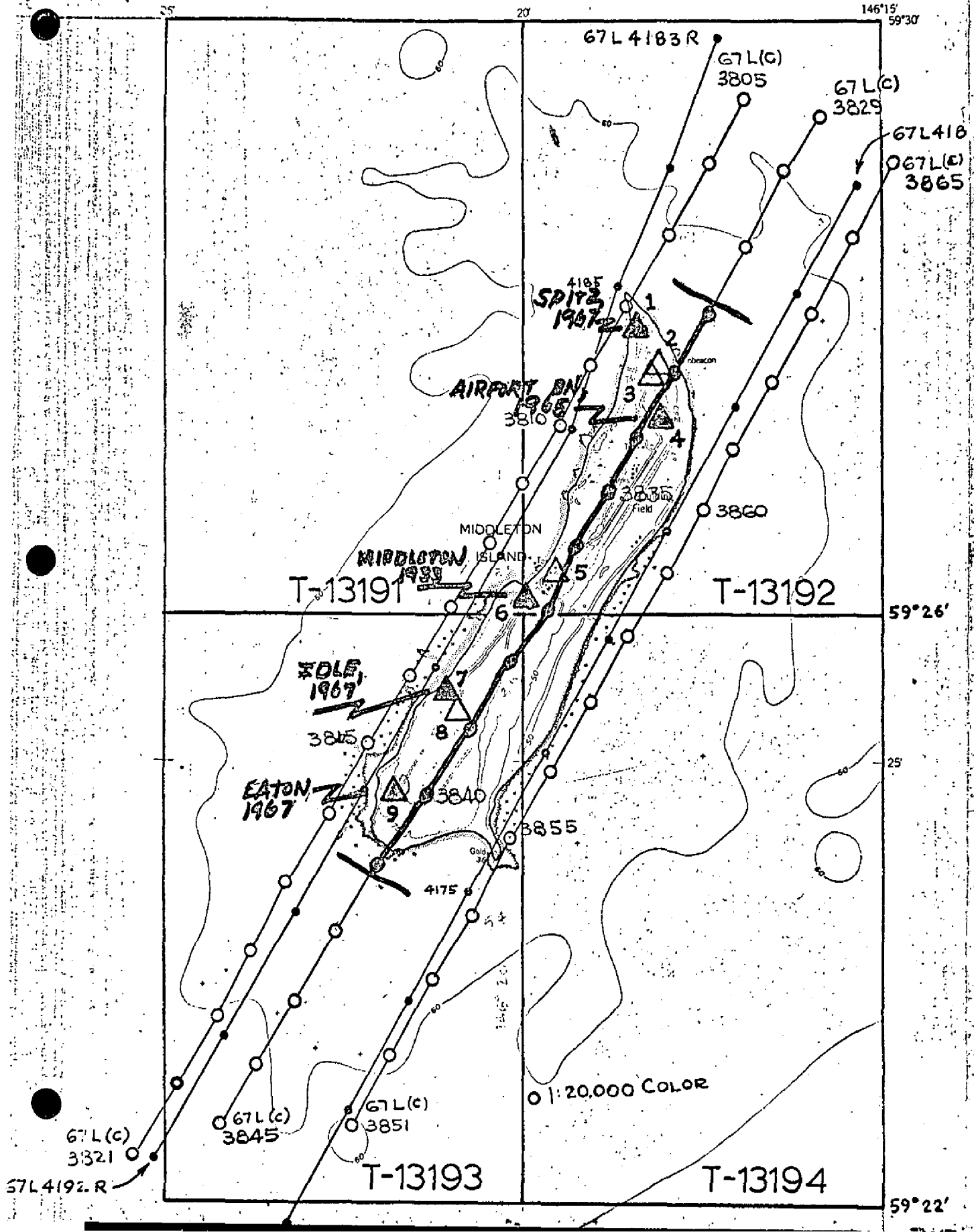
Approved by:

*John D Perrow Jr.*  
John D. Perrow, Jr

PH-6715

MIDDLETON ISLAND (B-7) QUADRANGLE  
ALASKA-THIRD JUDICIAL DIVISION  
1:63 360 SERIES (TOPOGRAPHIC)

11



DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	PH-6715	GEODETTIC DATUM		NA 1927	ORIGINATING ACTIVITY		REMARKS
				T-13192	PH-6715		Division, AMC, Norfolk, Virginia	Coastal Mapping	
SOURCE OF INFORMATION (Index)		AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		FORWARD		BACK
			STATE	ZONE	φ LATITUDE	λ LONGITUDE	FORWARD	BACK	
MIDDLETON ISLAND, H MARKER MAST, 1965	Unadj. Field 5/21/67		X=		φ 59 27	λ 40.78	1262.0	(594.8)	
MIDDLETON ISLAND, R.C.A.G. SITE, TOWER NO. 1, 1965	Unadj. Field 5/21/67		Y=		φ 59 27	λ 07.75	122.1	(823.0)	
AIRPORT BEACON, MIDDLETON ISLAND AIRPORT, 1965	Unadj. Field 5/21/67		X=		φ 59 27	λ 35.56	1100.5	(756.3)	
	Unadj. Field 5/21/67		Y=		φ 59 27	λ 15.16	238.8	(706.3)	
SPIT 2, R.M. 1, 1967	Unadj. Field 5/21/67		X=		φ 59 27	λ 17.95	555.5	(1301.3)	
	Unadj. Field 5/21/67		Y=		φ 59 27	λ 06.62	104.3	(841.0)	
ARAB, 1967	Unadj. Field 5/21/67		X=		φ 59 27	λ 55.76	1725.6	(131.2)	
	Unadj. Field 5/21/67		Y=		φ 59 27	λ 23.88	376.1	(568.9)	
MIDDLETON, 1933	Unadj. Field 5/21/67		X=		φ 59 26	λ 17.662	546.6	(1310.2)	
	Unadj. Field 5/21/67		Y=		φ 59 26	λ 32.670	515.0	(430.8)	
SPIT 2, 1967	Unadj. Field 5/21/67		X=		φ 59 26	λ 06.601	204.3	(1652.5)	
	Unadj. Field 5/21/67		Y=		φ 59 27	λ 58.034	914.8	(31.0)	
	Unadj. Field 5/21/67		X=		φ 59 27	λ 56.422	1746.0	(110.8)	
	Unadj. Field 5/21/67		Y=		φ 59 27	λ 23.304	367.0	(578.0)	
			X=		φ				
			Y=		λ				
			X=		φ				
			Y=		λ				
			X=		φ				
			Y=		λ				
COMPUTED BY	A. C. Rauck, Jr.	DATE	COMPUTATION CHECKED BY		C. H. Bishop		DATE	9/05/67	
LISTED BY		DATE	LISTING CHECKED BY				DATE		
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY				DATE		

## COMPILATION REPORT

Map Manuscripts T-13191, T-13192, T-13193 and T-13194

Project PH-6715

Middleton Island, Alaska

November 1967

31. DELINEATION:

The Wild B-8 plotter was used to drop additional pass points and to delineate interior details. Shoreline and offshore details were compiled by graphic methods.

32. CONTROL:

See Photogrammetric Plot Report dated August 21, 1967.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

There are no large streams on this island. Some of the more prominent small streams were delineated from office interpretation of the photographs.

35. ALONGSHORE AND SHORELINE DETAILS:

Field inspection was limited to clarification of interior details and character of the foreshore area; no location of the mean high water line was done by the field inspector. The mean high water line was compiled graphically from office interpretation of infrared photographs taken at mean high water. Determination of the waterline from these photographs was extremely doubtful along a large percentage of the shoreline. It should be checked at frequent intervals by the field editor.

An approximate mean lower low water line was delineated from office interpretation of ratio prints of color photographs taken at one-half tide or less.

Foul areas around the island appear to be extensive. Foul lines of a general nature were delineated without going into great detail. Limits and character of foul areas shown should be verified by the hydrographer.

36. OFFSHORE DETAILS:

Several images on the photographs were delineated as rocks awash on Maps T-13192, T-13193 and T-13194. The hydrographer should determine if these are actually rocks awash or just breakers.

37. LANDMARKS AND AIDS:

The field editor is requested to investigate landmarks and aids.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

All junctions between sheets are satisfactory. See Form 76-36B, Item 5, for each map.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with USGS Quadrangle MIDDLETON ISLAND (B-7), ALASKA, scale 1:63,360, dated 1955.



47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 8551, scale 1:200,000, 12th edition, dated May 17, 1965. The area adjacent to the shoreline is apparently much more shoal than is indicated on this chart. Infrared photographs taken at mean high water indicate that the mean high water line is further offshore on the manuscript than on the chart.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

*Charles H. Bishop*

Charles H. Bishop  
Cartographer  
November 1967

Approved:

*Albert C. Rauck, Jr.*  
Albert C. Rauck, Jr.  
Chief, Compilation Section, AMC

ADDENDUM TO THE COMPILATION REPORT

T-13192

41. FIELD EDIT:

Field edit done in conjunction with hydrography in August 1969 was generally satisfactory, except that the verification of three rocks awash is believed to be in error. See Review Report, Par. 64. The mean high water line was identified on Photos 67 L(C) 3858, 3860 and 3862 and corrected on the manuscript when field edit was applied.

Heights on rocks are based on predicted tides and were determined from rock data on the Field Edit Ozalid.

Tide controlled infrared photography flown near mean lower low water in August 1969 was used to verify previous compilation of the MLLW.

Apparently, erosion and shifting around the north tip of the island occurred between the times of photography (1967 and 1969). Correction of the MHWL and the MLLWL was necessary. Photo 69 K(I) 4131 was used to determine this line during final review.

*Charles H. Bishop*  
Charles H. Bishop  
Final Reviewer  
June 13, 1977

May 6, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

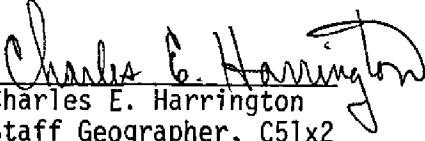
PH-6715 (Middleton Island, Alaska)

T-13192

Gulf of Alaska

Middleton Island

Approved by:

  
Charles E. Harrington  
Staff Geographer, C51x2

FORM C&GS-1002 (5-66)		U.S. DEPARTMENT OF COMMERCE E55A COAST AND GEODETIC SURVEY	
<b>PHOTOGRAMMETRIC OFFICE REVIEW</b>			
T- 13192			
1. PROJECTION AND GRIDS  CHB	2. TITLE  CHB	3. MANUSCRIPT NUMBERS  CHB	4. MANUSCRIPT SIZE  CHB
<b>CONTROL STATIONS</b>			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY  CHB		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)  NA	
7. PHOTO HYDRO STATIONS  NA			
8. BENCH MARKS  CHB	9. PLOTTING OF SEXTANT FIXES  CHB	10. PHOTOGRAMMETRIC PLOT REPORT  CHB	11. DETAIL POINTS  CHB
<b>ALONGSHORE AREAS (Nautical Chart Data)</b>			
12. SHORELINE  CHB	13. LOW-WATER LINE  CHB	14. ROCKS, SHOALS, ETC.  CHB	15. BRIDGES  CHB
16. AIDS TO NAVIGATION  CHB	17. LANDMARKS  CHB	18. OTHER ALONGSHORE PHYSICAL FEATURES  CHB	19. OTHER ALONGSHORE CULTURAL FEATURES  CHB
<b>PHYSICAL FEATURES</b>			
20. WATER FEATURES  CHB		21. NATURAL GROUND COVER  CHB	
22. PLANETABLE CONTOURS  CHB			
23. STEREOSCOPIC INSTRUMENT CONTOURS  CHB	24. CONTOURS IN GENERAL  CHB	25. SPOT ELEVATIONS  CHB	26. OTHER PHYSICAL FEATURES  CHB
<b>CULTURAL FEATURES</b>			
27. ROADS  CHB	28. BUILDINGS  CHB	29. RAILROADS  CHB	30. OTHER CULTURAL FEATURES  CHB
<b>BOUNDARIES</b>			
31. BOUNDARY LINES  CHB		32. PUBLIC LAND LINES  CHB	
<b>MISCELLANEOUS</b>			
33. GEOGRAPHIC NAMES  CHB		34. JUNCTIONS  CHB	
35. LEGIBILITY OF THE MANUSCRIPT  CHB			
36. DISCREPANCY OVERLAY  CHB	37. DESCRIPTIVE REPORT  CHB	38. FIELD INSPECTION PHOTOGRAPHS  CHB	39. FORMS  CHB
40. REVIEWER <i>Charles H. Bishop</i> Charles H. Bishop		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
41. REMARKS (See attached sheet)			
42. 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 <i>R. R. White</i> R. White & B. Wilson 3/10/70	SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.		
Reviewer <i>B. Barge</i> B. Barge 3/10/70			
43. REMARKS Field edit applied from: Field Edit Ozalids (two) Color Ratios 67 L 3862 67 L 3860 Form 567			

## FIELD EDIT REPORT

OPR-487

MIDDLETON ISLAND

Field edit of OPR-487, Middleton Island, was accomplished during the period of June - August, 1969.

METHODS

Field edit was accomplished during hydrographic survey operations, where practical. Sextant cuts, estimated distances, and bearings were used to locate offshore detail.

The highwater line was determined by walking the entire beach line and was sketched on the color ratio photos in violet ink.

The elevations of landmarks to be charted were determined by sextant angles and ground elevations taken from UCGS quadrangle charts.

Corrections to the T sheets were made on the field edit sheets with black pen and violet pencil. Notes on the photos are in violet ink.

The following are the T sheets and photos with field edit data;

<u>T sheets</u>	<u>Photos</u>
T-13191	67-L-3815
T-13192	67-L-3856
T-13193	67-L-3858
T-13194	67-L-3860
	67-L-3862

ADEQUACY OF COMPILATION

The compilation is generally good. However, on the west side and south end of the island the many individual rocks shown on the T sheets are included in vast foul areas. The offshore limits of the foul areas were determined during survey operations. To investigate anything inshore of this limit was considered too dangerous.

The survey shows the shoal bar off the north tip of the island to be slightly different in size and location than compiled.

The kelp areas on the west side of the island are much more extensive than compiled. These are shown as determined from the survey.

The MHWL was sketched on the color ratio photos. The ship shown on the beach line on the west side of the island is the COLDBROOK.

RECOMMENDATIONS

It is recommended that the T sheets be corrected as noted on the photos and field edit sheets. Thus corrected, the T sheets should be accepted for advance manuscripts.

Approved and forwarded:

*John B. Watkins, Jr.*  
JOHN B. WATKINS, JR.  
C. P. 1901, USESSA

*James M. Wintermyre*  
James M. Wintermyre  
LCDR., USESSA



## REVIEW REPORT

T-13192

SHORELINE

June 13, 1977

61. GENERAL STATEMENT:

See Summary, which is Page 6 of this Descriptive Report.

No comparison print was made for this map.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with a copy of Survey T-4819, 1:20,000 scale, dated July 1933. The mean high water line on this old survey is considerably inshore from the same feature on T-13192, indicating that uplift was caused by the earthquake of March 1964.

In the area compared, T-13192 supersedes T-4819 for nautical chart construction purposes. T-4819 is the latest prior registered survey of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with USGS Quadrangle MIDDLETON ISLAND, ALASKA, 1:63,360 scale, dated 1955. No significant difference was noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

The west side of the island was compared with a copy of the smooth sheet for Survey H-9047 (FA 10-01-69). Numerous differences were noted. It is obvious that topographic information was transferred from a copy of the T-sheet before field edit and was never up-dated. Some of the rocks located by the hydrographer and not by the field editor are visible on the photographs and were added to T-13192.

The east side of the island was compared with a copy of Survey H-9053 (FA 20-2-69). The same differences exist here that are noted in the comparison with Survey H-9047 - topographic information was taken from an un-edited copy of the T-sheet.



Five rocks located by the hydrographer on the northeast side of the island are visible on the photographs and were added to T-13192.

One rock awash was sketched on the field edit original by the field editor at Lat.  $59^{\circ} 28' 21.2''$ , Long.  $146^{\circ} 15' 59''$  and transferred to T-13192 during the application of field edit. As there is no rock visible at this position on the 1969 infrared photography taken at 0.5 feet below MLLW (Photo 69 K(I) 4152), the position of this rock was moved to Lat.  $59^{\circ} 28' 20''$ , Long.  $146^{\circ} 16' 01''$  during final review - the nearest rock visible on the photograph.

A rock verified by the field editor at Lat.  $59^{\circ} 27' 39''$ , Long.  $146^{\circ} 15' 50''$  was moved by the final reviewer to Lat.  $59^{\circ} 27' 32.5''$ , Long.  $146^{\circ} 15' 57''$ . This verification by the field editor is believed to be in error because no rock is visible on the low water infrared photography at the former position; the position was shifted to the nearest probable location for a rock of this elevation (6 feet above MLLW).

A rock verified by the field editor at Lat.  $59^{\circ} 26' 57''$ , Long.  $146^{\circ} 16' 06''$  was moved to Lat.  $59^{\circ} 26' 55''$ , Long.  $146^{\circ} 16' 05''$  by the final reviewer. This verification by the field editor is believed to be in error because nothing is visible on the low water infrared photography at the former position; the position was shifted to the nearest probable location for a rock of this elevation.

The last two rocks discussed above were originally mapped where breakers are visible on the 1967 color photographs.

The hydrographer's location of the shoal approximately 1000 meters northwest of the north tip of the island differs from the photogrammetric location. Apparently, this shoal shifted to the southwest during the two year lapse of time between photography and hydrography. It was removed from T-13192.

#### 65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 16700 (8551), 1:200,000 scale, 17th edition, dated September 18, 1976. No significant differences were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Project Instructions and meets requirements for Bureau Standards and National Standards of Map Accuracy.

Submitted:

*Charles H. Bishop*

Charles H. Bishop  
Cartographer  
June 13, 1977

Approved for forwarding:

*Joseph W. Vonasek*  
Joseph W. Vonasek  
Chief, Photogrammetric Branch, AMC

Approved:

*[Signature]*  
Chief, Photogrammetric Branch

*[Signature]*  
Chief, Coastal Mapping Division