

T-13193

ORIGINAL

T-13193

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-13193

Classification No. Edition No. 1

Field Edited Map

LOCALITY

State Alaska

General Locality Middleton Island

Locality Middleton Island, SW

1967 TO 1969

REGISTRY IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72)	U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY NO. <u>T-13193</u> MAP EDITION NO. (1) MAP CLASS Final JOB PH-6715
		DESCRIPTIVE REPORT - DATA RECORD	

PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Atlantic Marine Center, Norfolk, Virginia	LAST PRECEDING MAP EDITION	
OFFICER-IN-CHARGE Jeffrey G. Carlen, Cdr., NOAA	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 7/26/67 Compilation 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 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	DATE
1. AEROTRIANGULATION BY METHOD: Stereoplanigraph LANDMARKS AND AIDS BY	Robert B. Kelly	8/67
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Co-ordinatograph CHECKED BY	F. Wilson J. Steinberg	8/67 8/67
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1:3,333 CONTOURS BY CHECKED BY	F. P. Margiotta NA NA	10/67
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth Drafted CONTOURS BY CHECKED BY SCALE: 1:10,000 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	
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY	R. R. White B. L. Barge	3/70 3/70
7. COMPILATION SECTION REVIEW BY	B. L. 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	D. Brant	7/77
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	R. Cator	10/77

T-13193
COMPILATION SOURCES

I. 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		<input checked="" type="checkbox"/> (C) COLOR <input type="checkbox"/> (P) PANCHROMATIC <input checked="" type="checkbox"/> (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	
*67 L(C) 3814 thru 3818	7/02/67	11:31	1:20,000	4.7 ft. above MLLW	
*67 L(C) 3838 thru 3942	7/07/67	08:54	1:20,000	2.8 ft. above MLLW	
*67 L(C) 3854 thru 3856	7/07/67	09:02	1:20,000	2.8 ft. above MLLW	
67 L(I) 4174 and 4175	7/10/67	14:32	1:20,000	8.2 ft. above MLLW	
67 L(I) 4188 thru 4192	7/10/67	14:44	1:20,000	8.2 ft. above MLLW	
69 K(I) 4144 and 4145	8/15/69	09:37	1:20,000	0.5 ft. below MLLW	
69 K(I) 4163 thru 4166	8/15/69	10:33	1:20,000	1.0 ft. above MLLW	

REMARKS
*Bridge and compilation photography.

2. SOURCE OF MEAN HIGH-WATER LINE:

The MHW line was graphically compiled from field edit delineation on ratio prints of Photos 67 L(C) 3815 and 3856.

3. SOURCE OF MEAN LOWER LOW-WATER LINE:

The MLLW line was graphically compiled from the 1967 color photography, then verified and revised where necessary when the 1969 low-water infrared photography became available.

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

T-13193

HISTORY OF FIELD OPERATIONS

I. FIELD INSPECTION OPERATION 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 OR IDENTIFIED BY R. B. Melby	5-6/67
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY R. B. Melby	5-6/67
	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 <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	BY
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY R. B. Melby	5-6/67
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL ~~IDENTIFIED~~ PREMARKED

2. VERTICAL CONTROL IDENTIFIED
None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
67 L 3839	IDLE, 1967		
67 L 3841	EATON, 1967		

3. PHOTO NUMBERS (Clarification of details)
64 S(C) 6969, 6971, 6972 and 6980 (1:10,000 scale transparencies)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: REPORT NONE

6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS
None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)
Field Inspection Report
2 CSI Cards

T-13193
HISTORY OF FIELD OPERATIONS

1. 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	NA	
ESTABLISHED BY	NA	
PRE-MARKED OR IDENTIFIED BY	NA	
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	NA	
LOCATED (Field Methods) BY	NA	
IDENTIFIED BY	NA	
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	J. M. Wintermyre	Aug. 1969
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY	NA	

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) 3815 and 3856

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED: None identified. Form 567 was prepared by the Ship FAIRWEATHER. A copy is bound with this Descriptive Report. It was not duplicated by Photogrammetry.

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 Report
Field Edit Ozalid

T-13193
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.	10/67	Class III Manuscript Superseded	12/67	
Field edit applied. Compilation complete.	3/70	Class I Manuscript Superseded		
Foul limits revised.	1/77	Class I Manuscript Superseded		
Final Review	6/77	Final	6/77	###

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

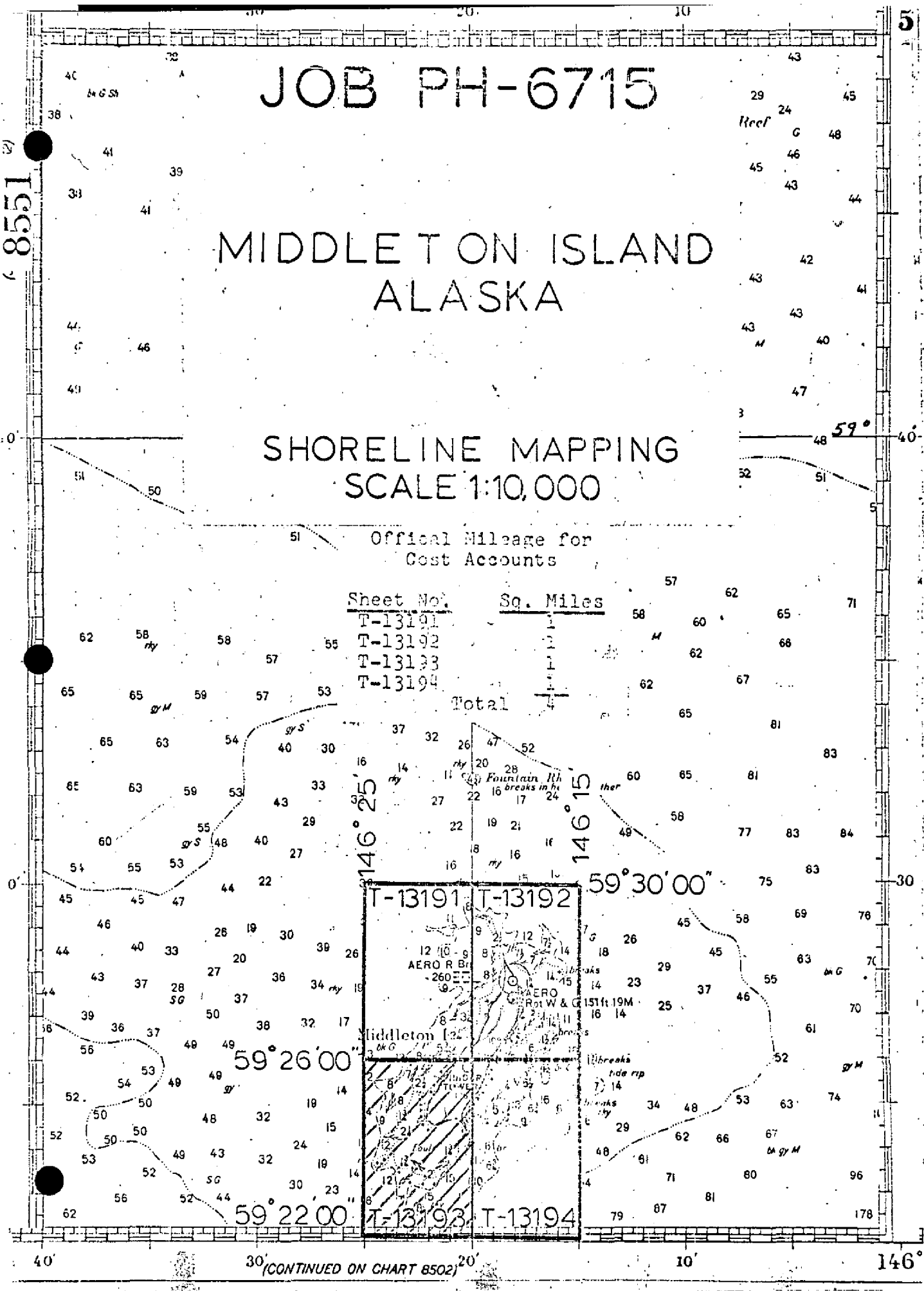
MIDDLETON ISLAND ALASKA

SHORELINE MAPPING
SCALE 1:10,000

Official Mileage for
Cost Accounts

Sheet No.	Sq. Miles
T-13191	1
T-13192	1
T-13193	1
T-13194	1
Total	4

8551



(CONTINUED ON CHART 8502)

SUMMARY

DESCRIPTIVE REPORTS T-13191 through T-13194

Project PH-6715 is comprised of four 1:10,000 scale shoreline maps covering Wadleton Island, Alaska, approximately 4 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.

The 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 bridging 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 Pockville 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 "ADVANCE" because it was prepared by field inspection. Under present policy, classification would be "CLASS 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 2-foot tide. The mean high water line was graphically compiled from office interpretation, using tide controlled high water infrared photography taken in July 1967.

71

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

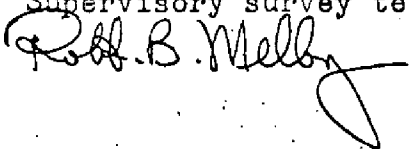
Vertical control consisted of establishing a tide staff for the control of the mean high water photography. The tidal datum of 1966 (MIDDLETON, 1933) was the basis for the vertical datum to determine the mean high water value on the tide staff. A connection was made with the bench marks set in 1933. 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

ARAB

MIDDLETON, 1933

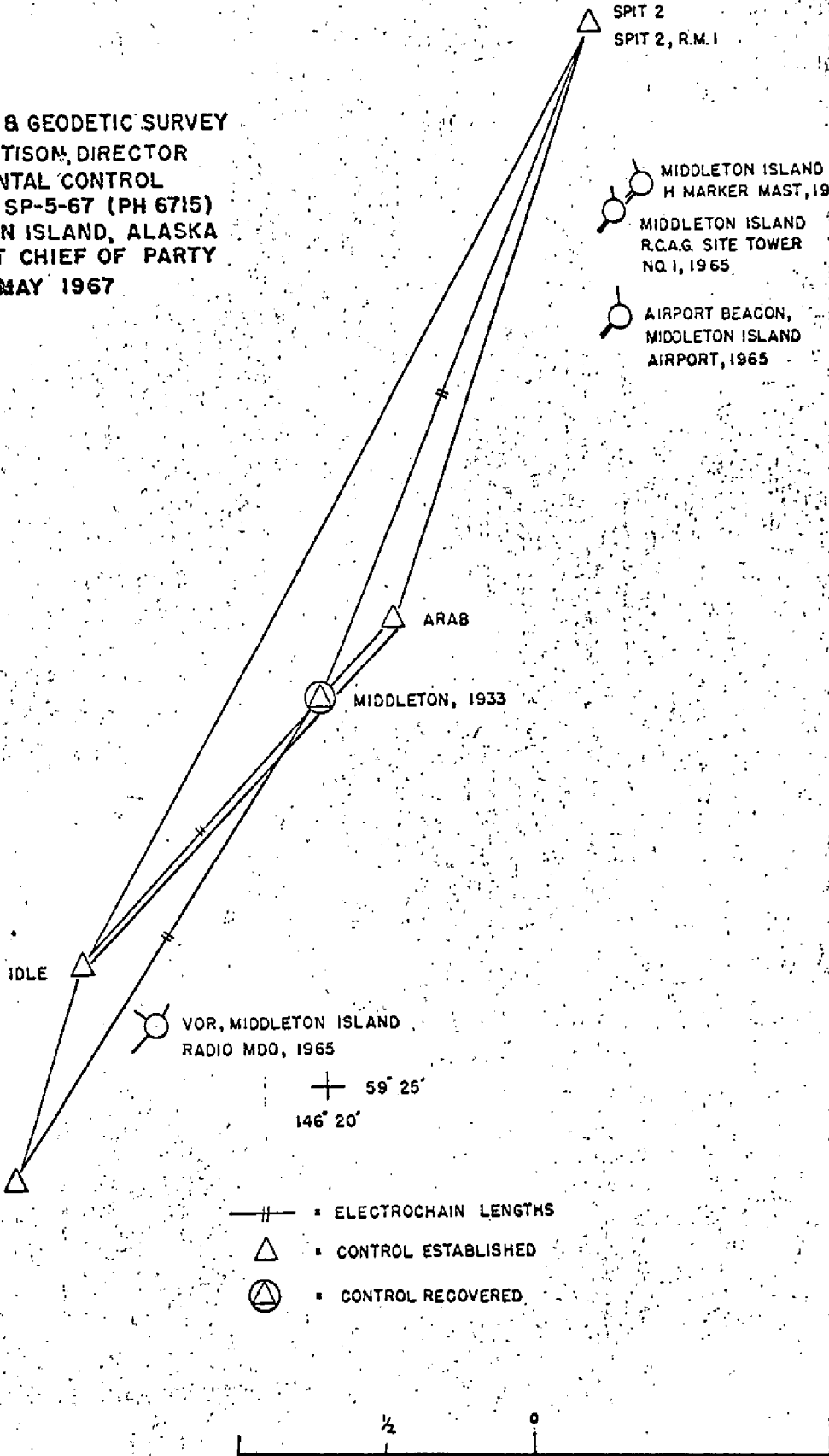
IDLE

VOR, MIDDLETON ISLAND
 RADIO MDO, 1965

59° 25'
 146° 20'

ETON
 ETON, R.M. I

- ||— ELECTROCHAIN LENGTHS
- △ CONTROL ESTABLISHED
- ⊕ CONTROL RECOVERED



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

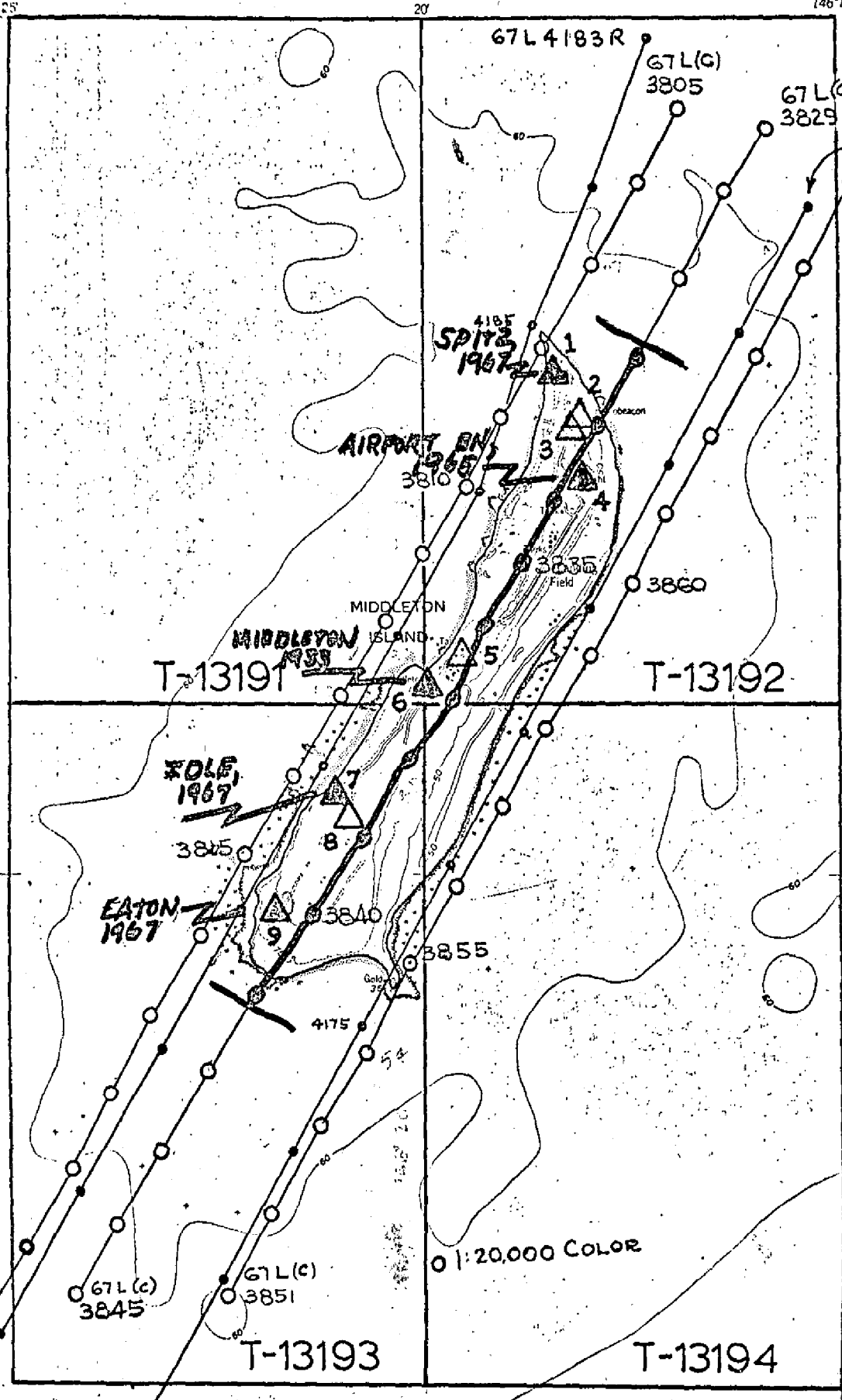
Approved by:

John D Perrow Jr.
John D. Perrow, Jr

PH-6715

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

146°15' 59"30"



59°26'

25'

57L4192 R

67L(c)
3821

67L(c)
3845

67L(c)
3851

T-13193

T-13194

59°22'

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	PH-6715	GEODETTIC DATUM		AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET		ORIGINATING ACTIVITY	REMARKS
				STATE	ZONE		φ LATITUDE	λ LONGITUDE		
T-13193	VOR, MIDDLETON ISLAND RADIO MDO, 1965		PH-6715	NA	1927				Division, AMC, Norfolk, Virginia	FORWARD BACK
		Unadj. Field 5/21/67					x=	59 25 20.56		636.2 (1220.5)
		Unadj. Field 5/21/67					y=	146 20 53.50		843.7 (102.5)
	IDLE, 1967						x=	59 25 26.675		825.5 (1031.2)
							y=	146 21 07.766		122.5 (823.7)
	ETON, R.M. 1, 1967						x=	59 24 46.54		1440.2 (416.5)
							y=	146 21 46.56		734.5 (212.0)
	ETON, 1967						x=	59 24 46.010		1423.8 (432.9)
							y=	146 21 47.309		746.3 (200.2)
							x=			
							y=			
							x=			
							y=			
							x=			
							y=			
							x=			
							y=			
							x=			
							y=			
COMPUTED BY	A. C. Rauck, Jr.								COMPUTATION CHECKED BY	C. H. Bishop
LISTED BY									DATE	9/05/67
HAND PLOTTING BY									DATE	9/06/67
									LISTING CHECKED BY	
									DATE	
									HAND PLOTTING CHECKED BY	
									DATE	

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

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-13193

41. FIELD EDIT:

The mean high water line was identified on the photos by the field editor, kelp and foul lines were sketched on the Field Edit Ozalid, and additional rocks were approximately positioned on the ozalid. These changes were applied graphically to the manuscript. No rock data (height, time, and date) were given by the field editor.

A copy of the Form 567 submitted by the Ship FAIRWEATHER was included with the field edit data. This was not duplicated by Photogrammetry.

Charles H. Bishop
Charles H. Bishop
Final Reviewer
June 15, 1977

May 6, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

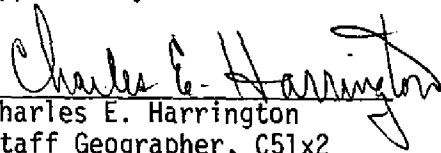
PH-6715 (Middleton Island, Alaska)

T-13193

Gulf of Alaska

Middleton Island

Approved by:


Charles E. Harrington
Staff Geographer, C51x2

FORM C&GS-1002 (9-66)		U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW T-13193			
1. PROJECTION AND GRIDS CHB	2. TITLE CHB	3. MANUSCRIPT NUMBERS CHB	4. MANUSCRIPT SIZE CHB
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY CHB	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) CHB	7. PHOTO HYDRO STATIONS CHB	
8. BENCH MARKS CHB	9. PLOTTING OF SEXTANT FIXES CHB	10. PHOTOGRAMMETRIC PLOT REPORT Bridge - W.O.	11. DETAIL POINTS CHB
ALONGSHORE AREAS (Nautical Chart Data)			
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
PHYSICAL FEATURES			
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
CULTURAL FEATURES			
27. ROADS CHB	28. BUILDINGS CHB	29. RAILROADS CHB	30. OTHER CULTURAL FEATURES CHB
BOUNDARIES			
31. BOUNDARY LINES CHB		32. PUBLIC LAND LINES CHB	
MISCELLANEOUS			
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 Charles H. Bishop C. H. Bishop		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr. 11/67	
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 R. White Reviewer B. L. Barge	R. White A.C. Rauck, Jr. FOR.	3/09/70 3/10/70	SUPERVISOR Albert C. Rauck, Jr.
43. REMARKS Field edit applied from: Field Edit Ozalid Color Ratios 67 L 3815 and 67 L 3856.			

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;

T sheets

Photos

T-13191
T-13192
T-13193
T-13194

67-L-3815
67-L-3856
67-L-3858
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.

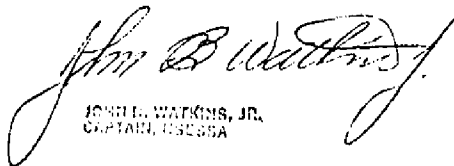
The kelp areas on the west side of the island are much more extensive than compiled. These are shown as determined from the survey.


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.
CAPTAIN, USESSA


James M. Wintermyre
LCDR., USESSA

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE REVISED
TO BE DELETED

STRIKE OUT TWO

MIDDLETON ISLAND, ALASKA SEPT. 1969

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

The positions given have been checked after listing by *Raymond A. Ste...*

John R. Woodruff
Chief of Party

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	KASBORN CHART	SOUNDING CHART	CHART AFFECT.	
			LATITUDE		LONGITUDE		DATUM							
			D. M.	SECONDS	D. M.	SECONDS								
RED & WHITE TOWER	MIDDLETON IS. H-MARKER		59	27	40.78	146	18	07.75	N.A.	TRANGULATION	1965			8500
WHITE TOWER	MAST, 1965 (LIGHTED)		59	27	1261.98	146	18	122.03	1927					8502
WHITE TOWER	VOR, MIDDLETON IS. RADIO MDO		59	25	20.56	146	20	53.50	"	"	1965			8551
AIRPORT BEACON	AIRPORT BEACON, MIDDLETON ISLAND		59	27	17.95	146	18	06.62	"	"	1965			8551
GEAR OF BLDG.	TALL SUPPORT FOUNDATION OF OLD RADAR SITE		59	26	555.48	146	18	104.30	"	"	1967			8551

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

REVIEW REPORT

T-13193

SHORELINE

June 15, 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. Differences in the mean high water line and mean lower low water line indicate that the earthquake of March 1964 caused uplift in this area.

In the area compared, T-13193 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 differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with copies of the smooth sheets for the following contemporary hydrographic surveys: H-9047 (FA 10-01-69) and H-9049 (FA 20-1-69).

The origin of the mean high water line, mean ^{lower} low water line, and foul limits on these surveys is a copy of T-13193 in the Class III stage of compilation. The entire MHWL, part of the MLLWL, and most of the foul line were changed by field edit. These changes had not been applied to the hydrographic smooth sheets at the time copies were made.

Several rocks were added by the hydrographer. Two are visible on the photographs at the positions indicated on the smooth sheets and were added to T-13193. Others are not visible on the photographs at the positions indicated by the hydrographer and are not shown on T-13193.

It appears that the hydrographer's positions on some rocks are in error. Because the elevation of these rocks are well above the charting datum, they should be visible on infrared photographs taken at 1.0 ft. above MLLW, but they are not. Three specific instances are:

<u>Position</u>	<u>Rock Elev.</u>	<u>Approx. distance and direction from nearest rock that possibly could satisfy the elev. given</u>	<u>Hydro Survey</u>
1. Lat. 59° 23' 06.2" Long. 146° 22' 59.2"	(11)	100 meters SW	H-9049
2. Lat. 59° 23' 01.6" Long. 146° 22' 13.6"	(8)	110 meters E	H-9049
3. Lat. 59° 23' 20.0" Long. 146° 23' 00.0"	(4)&(5)	50 meters W	H-9047

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 16700 (8551), 1:20,000 scale, 17th edition, dated September 8, 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 15, 1977

Approved for forwarding:

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

Approved:

[Signature]
Chief, Photogrammetric Branch

[Signature]
Chief, Coastal Mapping Division