

T-13191 ORIGINAL

T-13191

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-13191
Classification No.	Edition No. 1
Field Edited Map	
LOCALITY	
State	Alaska
General Locality	Middleton Island
Locality	Middleton Island, NW
.....	
<hr/> 1967 TO 1969 <hr/>	
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. T-13191 MAP EDITION NO. (1) MAP CLASS Final JOB PH-6715
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DESCRIPTIVE REPORT - DATA RECORD

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__
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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 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 METHOD: Stereoplanigraph	Robert B. Kelly	8/67
2. CONTROL AND BRIDGE POINTS METHOD: Co-ordinatograph	F. Wilson	8/67
	J. Steinberg	8/67
3. STEREOSCOPIC INSTRUMENT COMPILATION	F. P. Margiotta	10/67
INSTRUMENT: Wild B-8	NA	
SCALE: 1:3,333	NA	
4. MANUSCRIPT DELINEATION	F. P. Margiotta	10/67
	C. H. Bishop	11/67
METHOD: Smooth Drafted	NA	
	NA	
SCALE: 1:10,000	F. P. Margiotta	10/67
	C. H. Bishop	11/67
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	C. H. Bishop	11/67
6. APPLICATION OF FIELD EDIT DATA	C. E. Blood	3/70
	R. R. White	3/70
7. COMPILATION SECTION REVIEW	R. R. White	3/70
8. FINAL REVIEW	C. H. Bishop	6/77
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	C. H. Bishop	7/77
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	D. Brant	7/77
11. MAP REGISTERED - COASTAL SURVEY SECTION	R. Cator	12/77

NOAA FORM 76-36B (3-72) T-13191 U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "L" & "K"		TYPES OF PHOTOGRAPHY LEGEND X(c) COLOR (P) PANCHROMATIC X(i) INFRARED		TIME REFERENCE ZONE Alaska - Hawaii (X) STANDARD MERIDIAN 150th <input type="checkbox"/> DAYLIGHT	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY					

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
*67L(C) 3811 thru 3813	7/02/67	11:31	1:20,000	4.7 ft. above MLLW
67L(I) 4177	7/10/67	14:44	1:20,000	8.2 ft. above MLLW
69K(I) 4131 thru 4133	8/15/69	09:28	1:20,000	0.9 ft. below MLLW
69K(I) 4162	8/15/69	10:32	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 Photo 67 L(C) 3860.

3. SOURCE OF MEAN LOWER LOW-WATER LINE:

The MLLW line was graphically compiled from Photo 67 L(C) 3813 and verified by comparison with Photo 69 K(I) 4162.

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	T-13192	SOUTH	T-13193	WEST	No
Contemporary Survey				Contemporary Survey			

REMARKS

T-13191
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. Melby	5-6/67
	ESTABLISHED BY R. Melby	5-6/67
	PRE-MARKED OR IDENTIFIED BY R. Melby	5-6/67
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY R. 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. Melby	5-6/67
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED None	2. VERTICAL CONTROL IDENTIFIED None
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PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)
64 S 6968 and 6969 (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

T-13191
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	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	James M. Wintermyre	8/69
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
None		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

67 L(C) 3860

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 Edit Ozalid
Field Edit Report

T-13191
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 Superseded		
Offshore area compared with 1969 low-water photos.	1/77	Class I Manuscript No change		
Final Review	6/77	Final	6/77	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

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

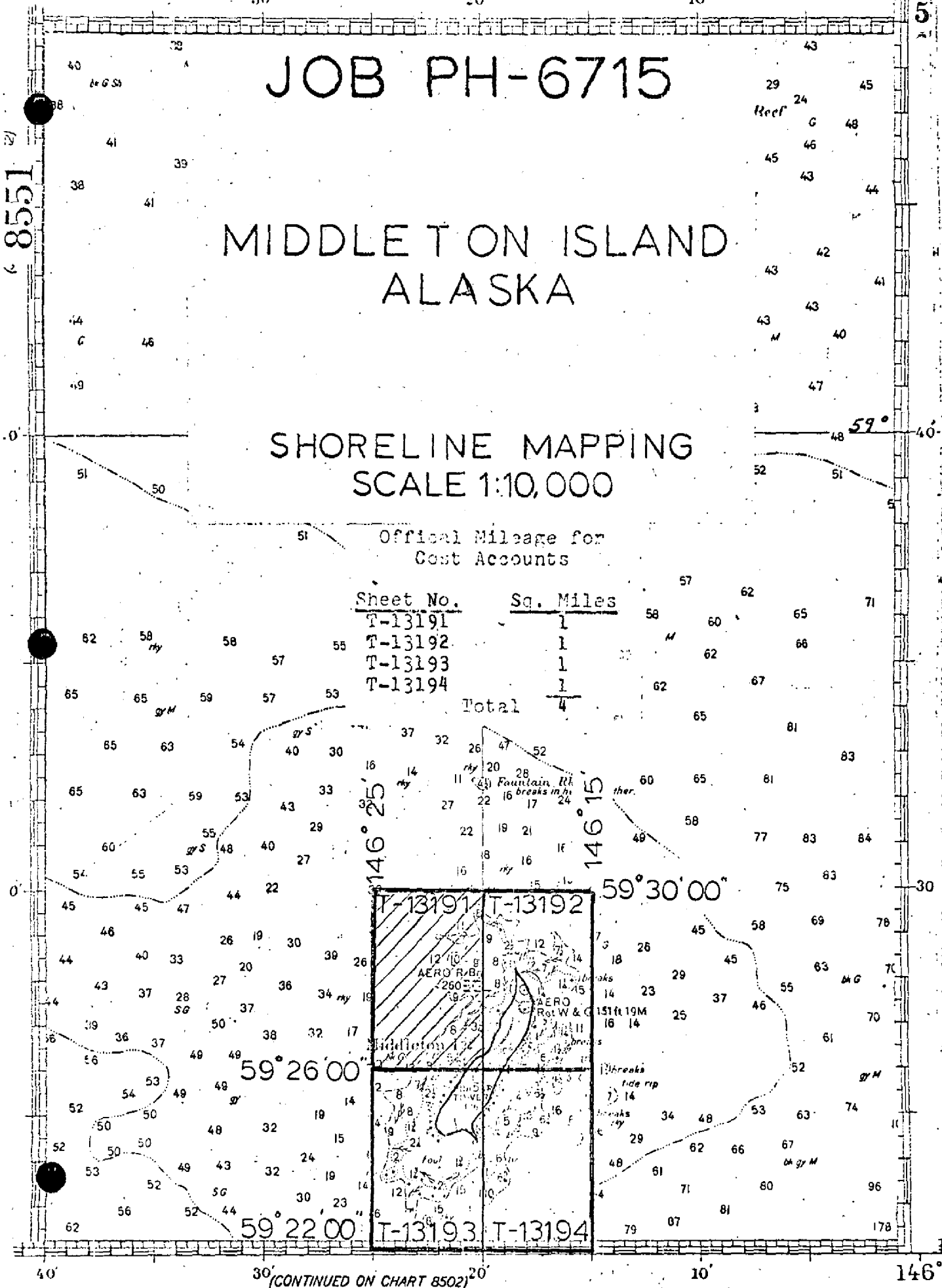
MIDDLE TON ISLAND ALASKA

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



30' (CONTINUED ON CHART 8502) 20'

10' 146°

SUMMARY

DESCRIPTIVE REPORTS T-13191 through T-13194

Project PH-6715 is comprised of four 1:10,000 scale shoreline maps covering Middleton 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 bridging was premarked. Photography used by the field inspector was 1:10,000 scale color transparencies taken in August 1964.

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 "ADVANCE" because it was preceded 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 $\frac{1}{2}$ -foot tide. The mean high water line was graphically compiled from office interpretation, using tide controlled high water infrared photography taken in July 1967.

7

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

Robert B. Melby

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. SKORT 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

$59^{\circ} 25'$
 $146^{\circ} 20'$

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

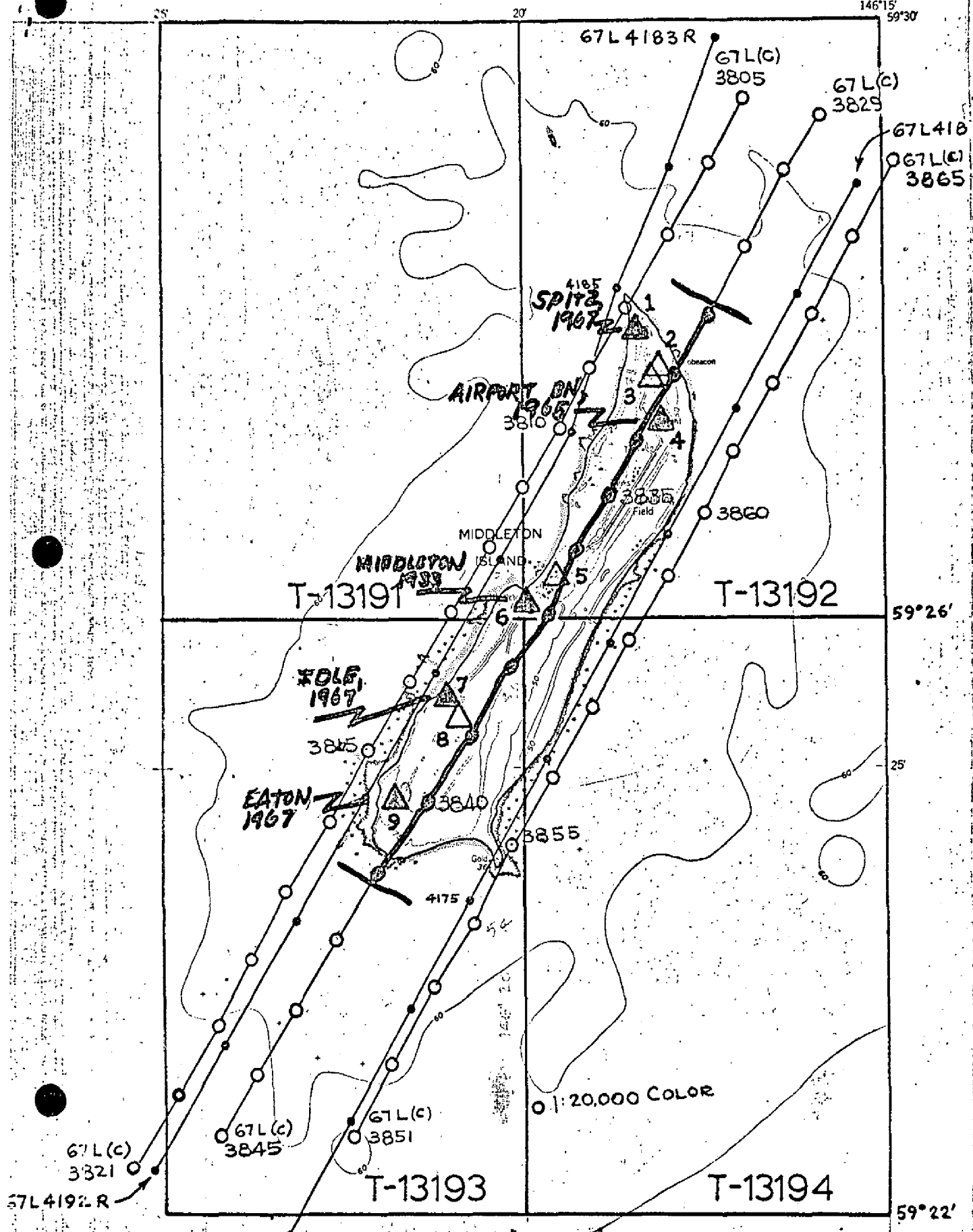
Approved by:

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"



DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. T-13191	JOB NO. PH-6715	GEODETIC DATUM NA	1927	ORIGINATING ACTIVITY Division, AMC, Norfolk, Virginia	COASTAL MAPPING Coastal Mapping
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE _____ ZONE _____	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	
None			X= _____ Y= _____ X= _____ Y= _____ X= _____ Y= _____ X= _____ Y= _____ X= _____ Y= _____ X= _____ Y= _____ X= _____ Y= _____ X= _____ Y= _____ X= _____ Y= _____ X= _____ Y= _____	REMARKS FORWARD	BACK
COMPUTED BY	DATE	COMPUTATION CHECKED BY		DATE	
LISTED BY	DATE	LISTING CHECKED BY		DATE	
HAND PLOTTING 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-13191

41. FIELD EDIT:

Field edit done in conjunction with hydrography from June through August 1969 was satisfactory. The mean high water line was identified on Photo 67L(I) 4177 and corrected on the map when field edit was applied. Foul limits were also corrected when field edit was applied.

Tide controlled infrared photography flown near MLLW in August 1969 was used to verify previous compilation of the mean lower low water line. No correction of this line was necessary on T-13191.

Charles H. Bishop

Charles H. Bishop

Final Reviewer

June 7, 1977

May 6, 1977 17

GEOGRAPHIC NAMES

FINAL NAME SHEET


PH-6715 (Middleton Island, Alaska)

T-13191

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 SURVEYPHOTOGRAMMETRIC OFFICE REVIEW
T. 13191

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 <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)		11/67	
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 C. E. Blood <i>C. E. Blood</i> 3/09/70	SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.		
Reviewer R. White <i>R. R. White</i> 3/10/70			
43. REMARKS Field edit applied from Color Ratios 67 L 3860 and 67 L 3815 and Field Edit Ozalid.			

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 sheetsPhotos

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.

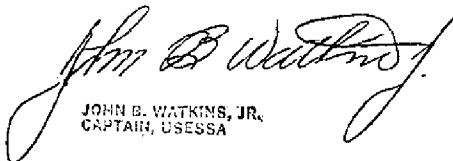
The kelp areas on the west side of the island are much more extensive than compiled. These are shown as determined from the survey.


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

REVIEW REPORT

T-13191

SHORELINE

June 7, 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 MHW line and the MLLW line differ by several hundred feet. Both of these lines are offshore from the corresponding line on the old survey, suggesting that there may be uplift in this area caused by the earthquake of March 1964.

In the area compared, T-13191 supersedes T-4819 for nautical chart construction. 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. A wreck mapped on the quadrangle at Lat. $59^{\circ} 26.1'$, Long. $146^{\circ} 21.0'$ is not visible on the color photographs and was not found by the field editor. No other significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a copy of the unverified smooth sheet for Survey H-9047 (FA 10-01-69). The mean high water line and foul lines on this copy are from the ADVANCE (Class III) copy of T-13191. These lines were corrected when field edit was applied to the photogrammetric manuscript and should be carried forward to the smooth sheet for H-9047.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 16700 (8551), 1:200,000 scale, 17th edition, dated September 18, 1976.

Refer to Par. 63 above for charted wreck at Lat. $59^{\circ} 26.1'$,
Long. $146^{\circ} 21.0'$. No other 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 7, 1977

Approved for forwarding:

Joseph W. Vonasek

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

[Signature]

Chief, Photogrammetric Branch

[Signature]

Chief, Coastal Mapping Division