

T-12719

ORIGINAL

T-12719

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-6410 Map No. T-12719
Classification No. * Incomplete Edition No. .. 1

LOCALITY

State Alaska
General Locality Montague Island
Locality MacLeod Harbor

1964 TO 19

REGISTRY IN ARCHIVES

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

* CLASS III MANUSCRIPT

DESCRIPTIVE REPORT - DATA RECORD

T - 12719

PROJECT NO. (II): PH-6410		
FIELD OFFICE (III): None		CHIEF OF PARTY
PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center, Norfolk, Va.		OFFICER-IN-CHARGE J. Bull - Director
INSTRUCTIONS DATED (III) (III): Field Aug. 21, 1964 Office Feb. 8, 1965 Field Feb. 18, 1965 Office, Amendment I Feb. 19, 1965 Office, Amendment I to Feb. 19, 1965 Instructions Feb. 26, 1965 Field Apr. 2, 1965 Office Dec. 6, 1965 Office Amendment I Jan. 1966 Field Mar. 15, 1966 Office Amendment I Apr. 26, 1966		
METHOD OF COMPILATION (III): Kelsh Plotter and Graphic		
MANUSCRIPT SCALE (III): 1:10,000		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:6,000 pantographed to 1:10,000
DATE RECEIVED IN WASHINGTON OFFICE (IV):		DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
APPLIED TO CHART NO.		DATE: Aug 7 1978
GEOGRAPHIC DATUM (III): N.A. 1927		VERTICAL DATUM (III): MHW EXCEPT AS FOLLOWS: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum I.e., EXCEPT AS FOLLOWS: for mean lower low water
REFERENCE STATION (III): CLOUD, 1933		
LAT.: 59°55' 16.180" (500.8M)	LONG.: 147°48' 01.042" (16.2M)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): Y = 2,167,600.35 Ft. X = 169,683.50 Ft.		STATE Alaska
		ZONE 3
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.		

DESCRIPTIVE REPORT - DATA RECORD

T-21719

CAMERA (KIND OR SOURCE) (III):

USC&GS Type "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64 W 1805	08/15/64	10:17	1:30,000	4.3' above MLLW

PREDICTED TIDE (III)

DIURNAL

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: CORDOVA, ALASKA		10.0	12.4
SUBORDINATE STATION: MACLEOD HARBOR, ALASKA		9.0	11.3
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

DATE:

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

None

RECOVERED:

None

IDENTIFIED:

None

NUMBER OF BM(S) SEARCHED FOR (II):

None

RECOVERED:

None

IDENTIFIED

None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:

T-12719

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit.	8/68	Incomplete manuscript
Field edit cancelled.	8/06/75	Incomplete manuscript
Final Review	8/4/77	Class III Manuscript
A FEW CORRECTIONS WERE MADE PRIOR TO REGISTRA- TION.	TO MARINE CHARTS 6/8/78	"

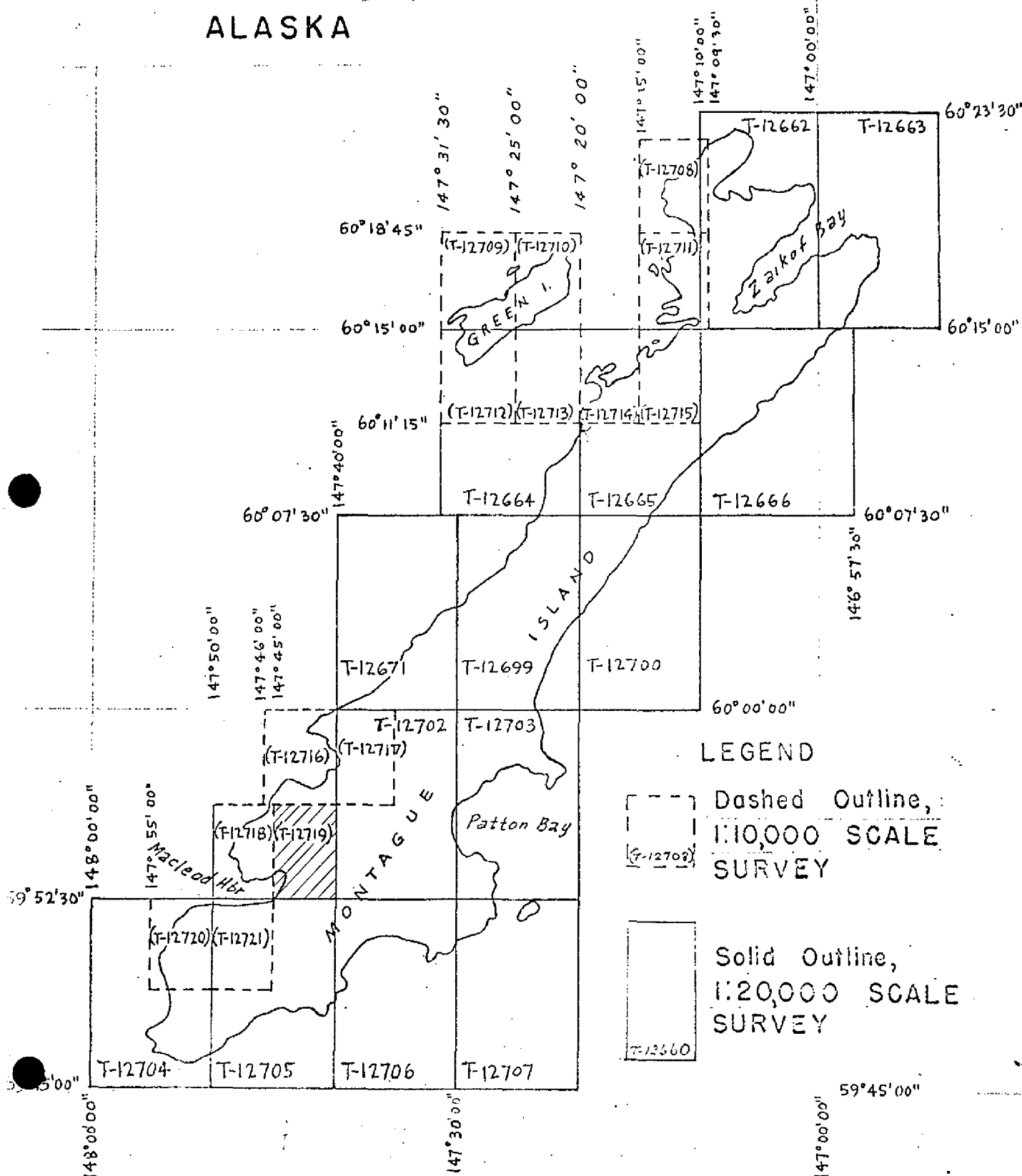
JOB PH-6410

SHORELINE MAPPING

SCALE, 1:10,000 - 1:20,000

MONTAGUE ISLAND

ALASKA



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORTS

T-12662 through T-12666, T-12671, T-12699,
T-12700 and T-12702 through T-12721

Project PH-6410 was originally designated 21423 (3). It consists of fourteen maps at 1:10,000 scale and fourteen maps at 1:20,000 scale. Its purpose was to provide up-to-date shoreline for hydrography and for nautical chart construction. Map T-12701, 1:20,000 scale, originally a part of the project, was cancelled.

This project covers Montague Island, Green Island and Little Green Island bordered by Prince William Sound and the Gulf of Alaska. The area was significantly affected by the earthquake of March 27, 1964. Uplifts of as much as 32 ft. have been recorded. This action created new shoreline and alongshore features. The new features, in many instances, appear to be composed of loosely consolidated materials. The configuration of some features as recorded on the August, 1964 photographs could have changed significantly since photography as a result of natural weathering and settling forces.

Photograph coverage was not sufficient to allow the delineation of two previously charted offshore islands at lat. $60^{\circ} 06.7'$, long. $147^{\circ} 36.1'$ (THE NEEDLE) and lat. $60^{\circ} 11.9'$, long. $147^{\circ} 27.1'$ and a rock at lat. $60^{\circ} 17.3'$, long. $147^{\circ} 28.0'$. All three of which lie within the project limits.

Field work prior to compilation was limited to the recovery establishment and identification of horizontal control necessary for bridging.

The original project, designated 21423(3), was bridged at the Washington Science Center by analytic methods in February, 1965. This bridge did not yield a sufficiently satisfactory solution and resulted in a Preliminary Classification for all compilation derived from it. This compilation took place at the Portland Photogrammetric Office during March and April, 1965. All preliminary data including the base maps and ratio photography was later destroyed.

Incomplete maps were produced at the Atlantic Marine Center from a new bridge run in November, 1965. Compilation was by Kelsh instrument and graphic methods.

Details were delineated on the north margins of T-12716 and T-12718. This was necessary because of a lack of map coverage in these areas.

Map T-12701, a 1:20,000 scale map, was cancelled.

A partial field edit was done on maps T-12671 and T-12699 in May 1975. A complete edit was done for the details shown on T-12664 at the same time. Field edit was cancelled for all the remaining maps in the project. However, the field editor did give the height of three rocks and the identification of a small gravel beach area on T-12714, which was applied.

Final review was performed at the Atlantic Marine Center. The original base manuscripts were forwarded to the Rockville office in September, 1977 for final registration.

FIELD INSPECTION REPORT
PROJECT PH-6410
T-12719

There was no field inspection prior to compilation.

Photogrammetric Plot Report No. 2
Montague Island, Alaska
PH-6410
November 1965

This report supersedes the plot report on Montague Island dated February 1965.

21. Area Covered

This report pertains to Montague and Green Islands, Alaska (Zone 3). The sheets covered are T-12660 through T-12666, T-12671 and T-12699 through T-12721.

22. Method

Four strips were bridged by analytic aerotriangulation. Three of the strips had been bridged in January 1965, but the control furnished at that time was inadequate. New control has since been furnished and it was necessary to remeasure only the models in which the new control appeared.

Strips #1, #3, and a strip covering Green Island were adjusted to ground in the normal manner. Strip #2 was adjusted to ground with common points transferred from Strip #1. Common points were also transferred from Strip #1 to the 1:30,000 scale photography that is to be used by compilation. The common points are 180 micron drill holes and there are four per model.

23. Adequacy of Control:

The new control was adequate, however, it was not possible to identify the sub-points of RIVER 2, 1955, or VIC, 1933, on the bridging photography. The use of these stations was not necessary for a satisfactory adjustment.

Sub-point "A" of JUAN, 1965, would not hold with its companion station, sub-point "B". Each sub-point was used in a preliminary straight line adjustment of the strip and sub-point "B" was found to fit well with the other control stations in the strip, while sub-point "A" was so far out of line that we strongly suspect a misidentification.


24. Supplemental Data

Approximate elevations were taken from U.S.G.S. topographic quadrangles to satisfy the requirements of the horizontal-vertical strip adjustment program.


25. Photography

The photography was adequate.

Respectfully submitted:


Don O. Norman

Approved and forwarded:


Henry P. Eichert
Acting Chief, Aerotriangulation Section

Fit to Control (feet)

STRIP #1

▲ used in adjustment

△ used as check

JUAN, 1965
 △ sub station "A" -45.1 +23.9
 ▲ sub station "B" - 1.0 - 0.1
 CLOUD, 1933
 △ sub station "A" + 8.8 + 5.5
 ▲ sub station "B" + 1.1 + 1.3
 CUB, 1933
 △ sub station "A" - 7.0 + 1.9
 ▲ sub station "B" + 1.5 - 3.7
 PERCH, 1933 RM #3
 ▲ sub station "A" - 1.9 + 0.1
 △ sub station "B" -0.2 - 1.1
 LAGOON, 1933
 ▲ sub station "A" - 0.2 + 3.0
 △ sub station "B" + 3.6 +11.9
 WHITE, 1902
 △ sub station "A" +14.0 + 5.2
 ▲ sub station "B" + 0.5 - 0.9

STRIP #2 (adjusted on tie points from Strip #1)

▲ 14401 +0.4 -0.3
 ▲ 14402 -0.8 +0.8
 ▲ 14403 +0.9 -1.2
 ▲ 14404 -0.4 +0.4

STRIP #3

ROCKY, 1933
 △ sub station "A" - 2.0 - 2.0
 ▲ sub station "B" 0.0 0.0
 GRAVE, 1933
 ▲ sub station "A" 0.0 0.0
 △ sub station "B" - 1.8 - 1.0
 STORK, 1933
 △ direct + 2.1 - 1.6
 ▲ sub station + 0.1 0.0

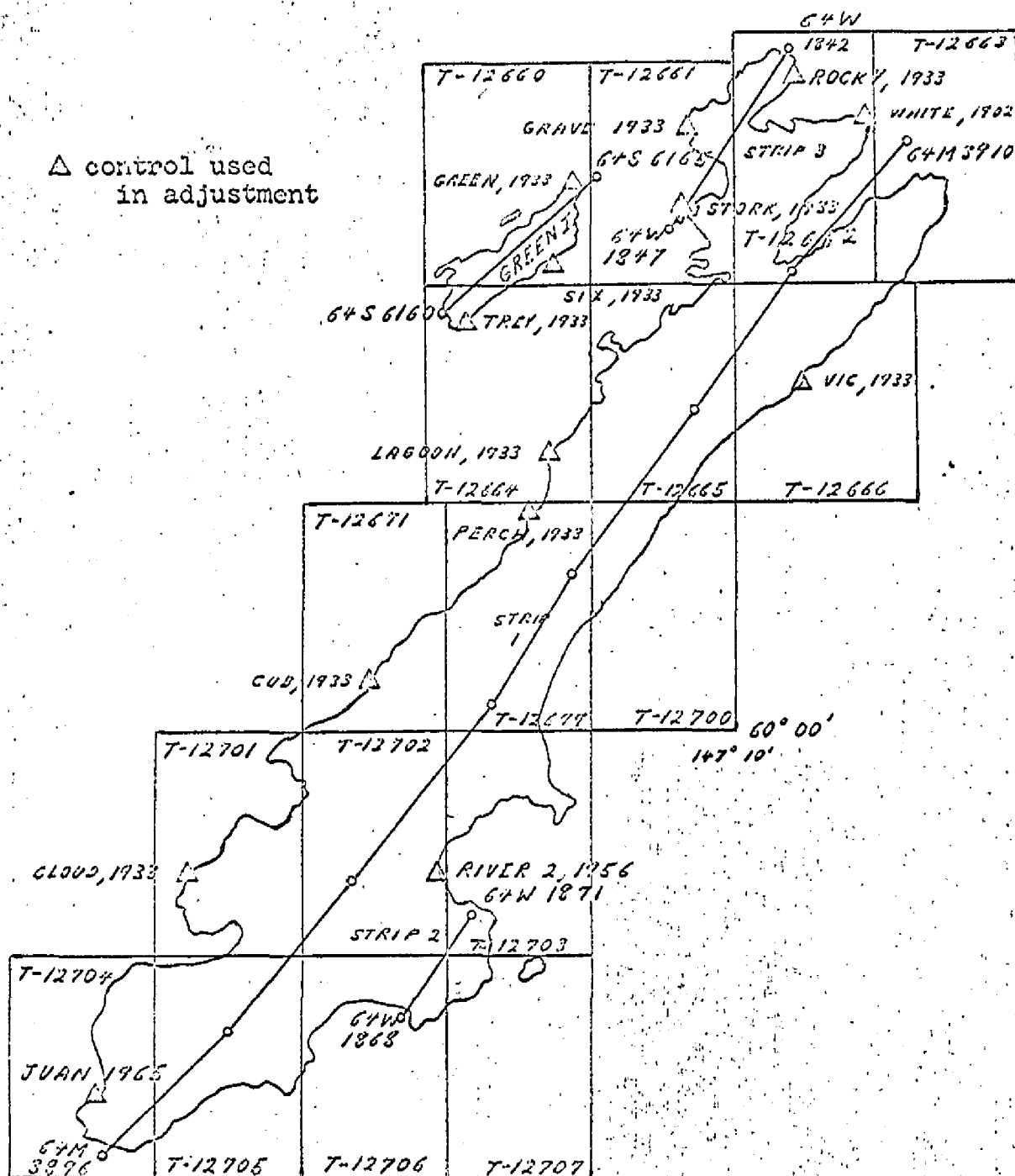
GREEN ISLAND

TREY, 1933
 ▲ sub station "A" 0.0 0.0
 △ sub station "B" - 0.3 + 1.6

SIX, 1933 RM #2

△ sub station "A" - 1.9 + 0.6
 ▲ sub station "B" 0.0 0.0
 GREEN, 1933
 ▲ sub station "A" 0.0 0.0
 △ sub station "B" - 0.4 + 2.4

AEROTRIANGULATION SKETCH
 MONTAGUE ISLAND
 PH-6410
 November, 1965



COMPILATION REPORT

T-12719

31. DELINEATION:

The Kelsh Plotter was used. However, the entire shoreline was revised graphically during review. Photography was satisfactory. There was no field inspection.

32. CONTROL:

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

Drainage was delineated from office interpretation of the photography.

35. SHORELINE AND ALONGSHORE DETAILS:

All details were delineated from office interpretation of the photography.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junction has been made with T-12718 to the west.

~~T-12719 is a part of, and lies in the southeast quarter of,~~
~~T-12701 (1:250,000), A.L.S.~~

T-12716 lies to the north; no junction required.

T-12702 lies to the east; no junction required.

T-12705 lies to the south; no junction required.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with USGS Quadrangles BLYING SOUND (D-1) and (D-2), ALASKA, scale 1:63,360, dated 1953.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with Nautical Chart 8515, scale 1:81,436 (at Lat. 60° 00'), published November 1935 (7th Edition), corrected to February 14, 1949.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Albert C. Rauck, Jr.
John S. Place
Cartographer

Approved:

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

July 12, 1977

GEOGRAPHIC NAMES

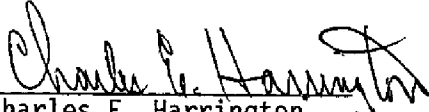
FINAL NAME SHEET

PH-6410 (Montague Island, Alaska)

T-12719

- ✓ MacLeod Harbor
- ✓ Montague Island

Approved by:


Charles E. Harrington
Staff Geographer - C51x2

FORM C&GS-1002 (9-66)		T-12719		U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW XXXXXX					
1. PROJECTION AND GRIDS BW		2. TITLE BW		3. MANUSCRIPT NUMBERS BW	
4. MANUSCRIPT SIZE BW					
CONTROL STATIONS					
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY BW			6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA		7. PHOTO HYDRO STATIONS NA
8. BENCH MARKS NA		9. PLOTTING OF SEXTANT FIXES NA		10. PHOTOGRAMMETRIC PLOT REPORT BW	
11. DETAIL POINTS BW					
ALONGSHORE AREAS (Nautical Chart Data)					
12. SHORELINE BW		13. LOW-WATER LINE BW		14. ROCKS, SHOALS, ETC. BW	
15. BRIDGES BW					
16. AIDS TO NAVIGATION BW		17. LANDMARKS BW		18. OTHER ALONGSHORE PHYSICAL FEATURES BW	
19. OTHER ALONGSHORE CULTURAL FEATURES BW					
PHYSICAL FEATURES					
20. WATER FEATURES BW			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 BW					
CULTURAL FEATURES					
27. ROADS BW		28. BUILDINGS BW		29. RAILROADS BW	
30. OTHER CULTURAL FEATURES BW					
BOUNDARIES					
31. BOUNDARY LINES NA			32. PUBLIC LAND LINES NA		
MISCELLANEOUS					
33. GEOGRAPHIC NAMES BW			34. JUNCTIONS BW		35. LEGIBILITY OF THE MANUSCRIPT BW
36. DISCREPANCY OVERLAY BW		37. DESCRIPTIVE REPORT BW		38. FIELD INSPECTION PHOTOGRAPHS NA	
39. FORMS BW					
40. REVIEWER <i>Albert C. Rauck, Jr. For</i> B. Wilson			SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> A. 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			SUPERVISOR		
43. REMARKS FIELD EDIT CANCELLED 8/06/75					

REVIEW REPORT
T-12719

SHORELINE

August 4, 1977

61. GENERAL STATEMENT:

See Summary, Pages 6a and 6b, of this Descriptive Report.

The area mapped consists of low flat laying sand that was raised above mean high water as a result of the 1964 earthquake. The shoreline, as delineated from the August, 1964 photographs, lies from 300 to more than 700 meters seaward of its previously mapped position. It is very irregular and unsettled. Uplift in this area (Macleod Harbor) was recorded at 32 ft.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with T-4311, 1:20,000 scale dated August, 1927, compiled on the Valdez Datum. See Paragraph 61 above. The large swamp area mapped on T-4311 at the head of Macleod Harbor is not discernible on the photographs.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangle Blying Sound (D-2), Alaska, 1:63,360 scale dated 1953. See Paragraph 61 above.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYES:

No contemporary hydrographic surveys were conducted in the area.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 16701, 1:80,000 scale, 11th edition, dated March 10, 1973. See Paragraph 61 above. The swamp area at the head of Macleod Harbor is not visible on the photographs.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the project instructions and meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted by:

A. L. Shands

A. L. Shands
Final Reviewer

Approved for forwarding;

Joseph W. Vonasek

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved: ^{sw}

John D. Perrow Jr.

Chief, Photogrammetric Branch

James L. ...

Chief, Coastal Mapping Div.