T-12709 ORIGINAL

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-12709

Classification No. Incomplete* *Edition No.* 1

LOCALITY

State Alaska

General Locality Montague Island

Locality Putnam Point, Green Island

1964 TO 19

REGISTRY IN ARCHIVES

DATE

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

* CLASS III MANUSCRIPT

T-12709

FORM C&GS-181a
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

1

DESCRIPTIVE REPORT - DATA RECORD

T - 12709

PROJECT NO. (II):

PH-6410

FIELD OFFICE (II):	CHIEF OF PARTY
None	
PHOTOGRAMMETRIC OFFICE (III):	OFFICER-IN-CHARGE
Atlantic Marine Center, Norfolk, Va.	J. Bull - Director

INSTRUCTIONS DATED (II) (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

MANUSCRIPT SCALE (III):	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:10,000	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:	DATE REGISTERED (IV):
		AUG 1978

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III): MHW

[redacted] EXCEPT AS FOLLOWS:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., [redacted] mean lower low water

REFERENCE STATION (III):

TREY 1933

LAT.:	LONG.:	
60° 13' 46.141" (1428.1M)	147° 28' 15.056" (231.8M)	XX ADJUSTED ☐ UNADJUSTED

PLANE COORDINATES (IV):	STATE	ZONE
Y = 2,278,780.28 Ft. X = 232,629.18 Ft.	Alaska	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.

USCOMM-DC 36393A-P66

FORM C&GS-181b
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

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FIELD INSPECTION BY (II): None	DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation - Aug. 15, 1964 NO MEAN LOWER LOW-WATER LINE IS DELINEATED ON THIS MAP.	
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree	DATE Nov. 1965
PROJECTION AND GRIDS CHECKED BY (IV): R. S. Kornspan	DATE Nov. 1965
CONTROL PLOTTED BY (III): K. G. Boyle	DATE March 1966
CONTROL CHECKED BY (III): L. O. Neterer, Jr.	DATE March 1966
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): D. O. Norman	DATE Nov. 1965
STEREOSCOPIC INSTRUMENT COMPILATION (III): Kelsh Plotter	PLANIMETRY L. O. Neterer, Jr. REVIEWED: K. G. Boyle, April 1966 — DATE April 1966
	CONTOURS Inapplicable — DATE
MANUSCRIPT DELINEATED BY (III): B. H. Barnes	DATE April 1966
SCRIBING BY (III):	DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): COMPILATION: C. H. Bishop and B. Wilson August 1968	DATE October 1966

REMARKS:

FIELD EDIT CANCELLED 8/06/75

USCOMM-DC 36393B-P66

FORM C&GS-181c
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-12709

CAMERA (KIND OR SOURCE) (III):

U.S.C.&G.S. Type "S"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64S-6161 & 6162	8/15/64	9:09	1:30,000	5.5 ft. above M.L.L.W.

PREDICTED TIDE (III) DIURNAL

	RATIO OF RANGES	MEAN RANGE	~~SPRING~~ RANGE
REFERENCE STATION: CORDOVA, ALASKA		10.0	12.4
SUBORDINATE STATION: PORT CHALMERS, ALASKA		9.3	11.7
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:

USCOMM-DC 36993C-P66

T-12709

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit.	10/68	Incomplete manuscript
Field edit cancelled.	8/06/75	Incomplete manuscript
Final Review	8/77	Class III manuscript
A FEW CORRECTIONS WERE MADE PRIOR TO REGISTRATION.	TO MARINE CHARTS 6/8/78	

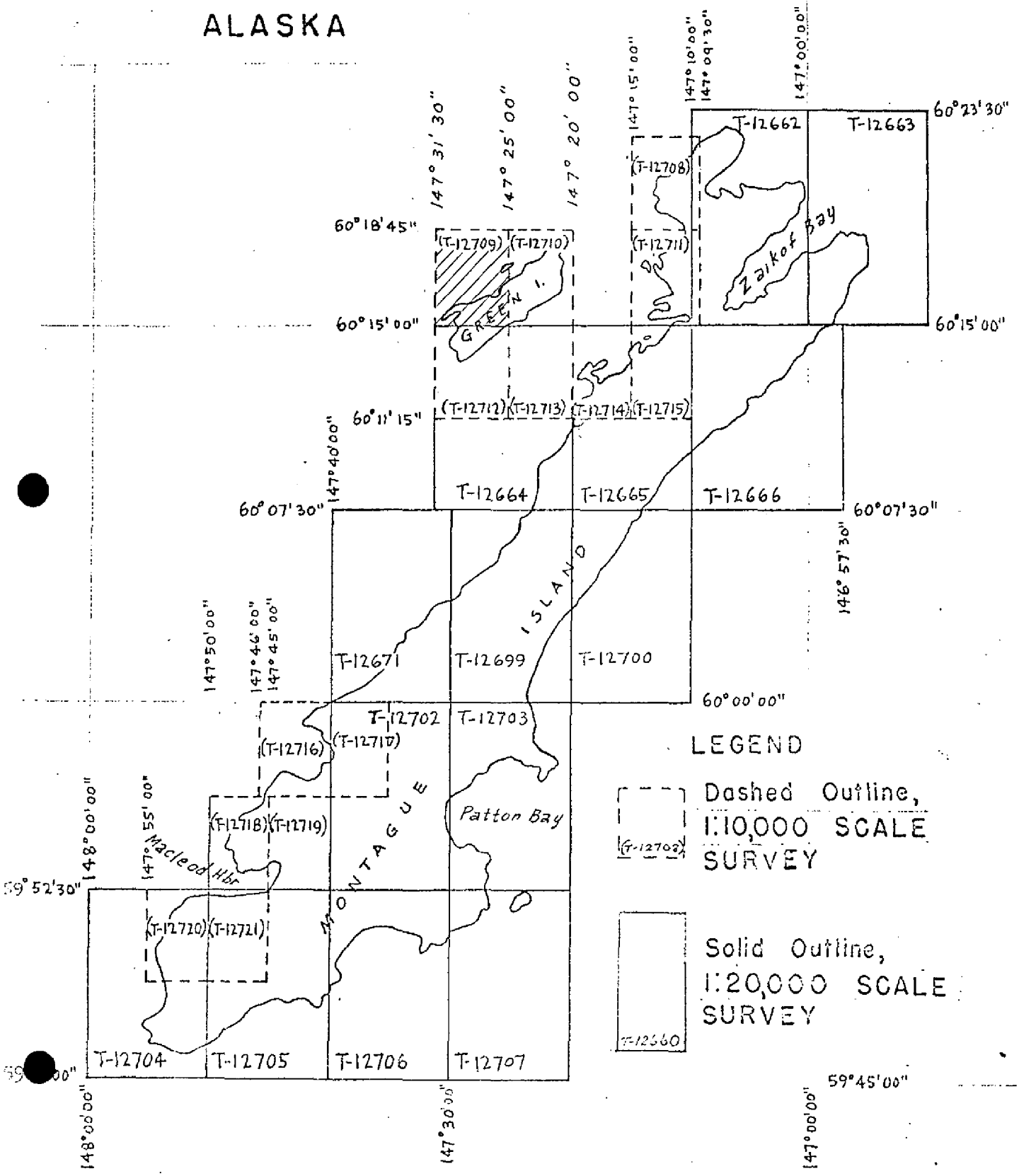
JOB PH-6410

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° 06.7', long. 147° 36.1' (THE NEEDLE) and lat. 60° 11.9', long. 147° 27.1' and a rock at lat. 60° 17.3', long. 147° 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 drived 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
T-12709
PROJECT PH-6410
MONTAGUE ISLAND ALASKA

There was no field inspection before 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)

▲ used in adjustment

△ used as check

STRIP #1

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

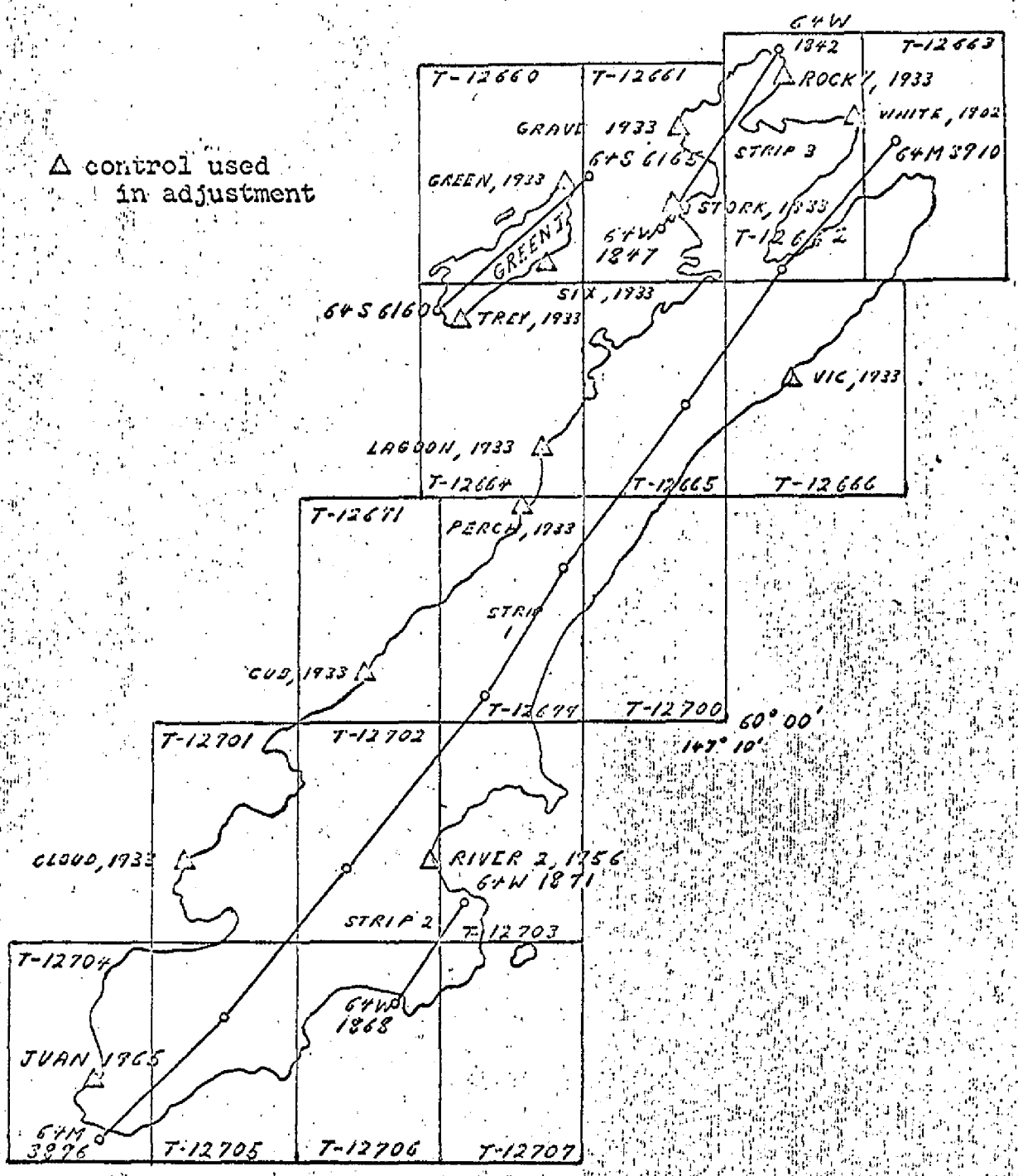
ROCKY, 1933		
△ sub station "A"	- 2.0	- 2.0
▲ sub station "B"	0.0	0.0
GRAVE, 1933		
▲ sub station "A"	0.0	0.0
△ sub station "B"	- 1.8	- 1.0
STORK, 1933		
△ direct	+ 2.1	- 1.6
▲ sub station	+ 0.1	0.0

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



NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
T-12709	PH-6410	NA 1927	Coastal Mapping AMC, Norfolk, Va.

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET (STATE / ZONE)	GEOGRAPHIC POSITION (φ LATITUDE, λ LONGITUDE)	REMARKS FORWARD	REMARKS BACK
LARGE, 1905	G.P.Quad. 60147		x=	φ 60 17 21.469	664.5	(1192.5)
			y=	λ 147 27 57.388	881.8	(401)
PIN, 1905	G. P.Quad. 60147		x=	φ 60 15 15.64	484.1	(1372.9)
			y=	λ 147 30 23.78	365.8	(557.1)
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		

COMPUTED BY A. C. Rauck, Jr.	DATE 1/22/68	COMPUTATION CHECKED BY B. Wilson	DATE 8/21/68
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

T-12709

31. DELINEATION:

The Kelsh Plotter was used. Photography was satisfactory. There was no field inspection.

32. CONTROL:

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Drainage was delineated from office interpretation of the photography. Contours are inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS:

All details were delineated from office interpretation of the photography.

36. OFFSHORE DETAILS:

An offshore bare rock shown on Chart 8515 is beyond photograph coverage. It is believed to be at the position of LARGE 1905, an undescribed station, and should be investigated by the hydrographer.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junctions have been made with T-12710 to the east and T-12712 to the south. There is no contemporary survey to the west and north.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with USGS Quadrangle SEWARD (B-2), ALASKA, scale 1:63,360, dated 1952.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with C&GS Chart 8515 1:81,436 scale, dated November, 1935 revised February 14, 1949 and discrepancies noted on the FIELD EDIT OZALID.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Albert C. Rauck Jr. FOR.
C. Blood
Cartographic Technician

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-12709

✓ Gibbon Anchorage

✓ Green Island

✓ Prince William Sound

✓ Putnam Point

Approved by:

Charles E. Harrington

Charles E. Harrington
Staff Geographer - C51x2

NOAA FORM 75-74
(2-74)

T-12709

U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

XX-10368X

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
BW	BW	BW	BW

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY *(Topographic stations)*	7. PHOTO HYDRO STATIONS
BW	NA	NA

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
NA	NA	CHB	CHB

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
CHB	CHB	CHB	CHB

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
CHB	CHB	CHB	CHB

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
CHB	NA	NA

23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
NA	NA	NA	CHB

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
CHB	CHB	CHB	CHB

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
NA	NA

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
CHB	CHB	CHB

36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
CHB	CHB BW	NA	CHB

40. REVIEWER	SUPERVISOR, REVIEW SECTION OR UNIT
Charles M Bishop C. H. Bishop 10/66 B. Wilson Albert C. Rauck Jr. for 8/68	Albert C. Rauck Jr. 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

NOAA FORM 75-74
(2-74)

SUPERSEDES C&GS FORM 1002 WHICH MAY BE USED UNTIL EXISTING STOCK IS DEPLETED.

REVIEW REPORT
T-12709

SHORELINE

August 18, 1977

61. GENERAL STATEMENT:

See Summary ~~which is~~ on Pages 6a and 6b of this Descriptive Report.

An offshore rock on which triangulation station LARGE, 1905 is located lies north of the limits of photo coverage and was not delineated.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with T-3232, 1:20,000 scale, dated 1911, not adjusted to the 1927 North American Datum.

The differences observed in the shoreline and the alongshore details are attributable to the 1964 earthquake as well as advancements made in mapping methods and equipment.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangle Seward (B-2), ALASKA, 1:63,360 scale, dated 1952.

This area experienced uplift resulting from the 1964 earthquake. The differences observed are attributable to that uplift.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic surveys were conducted in the area.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 16701, 1:80,000 scale, dated March 10, 1973, 11th edition.

Some kelp and rock charted north of Green Island are beyond photo coverage and could not be verified photogrammetricly. See Paragraph 62 for differences in shoreline and alongshore details.

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
Chief, Photogrammetric Branch, AMC

Approved: BW

John D. Perrow Jr.
Chief, Photogrammetric Branch

Chief, Coastal Mapping Div.