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-12713
Classification No. Incomplete Edition No. 1
LOCALITY
State
General Locality Montague Island
Locality Channel Island
1964 TO 19
REGISTRY IN ARCHIVES
DATE

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

* CLASS III MANUSCRIPT

DESCRIPTIVE REPORT - DATA RECORD

T - 12713

PROJECT NO. (II):			
PH-6410			
FIELD OFFICE (II):		CHIEF OF PARTY	· · · · · · · · · · · · · · · · · · ·
,		omer or rater	
None			
PHOTOGRAMMETRIC OFFICE (HI):		OFFICER-IN-CHARGE	
Atlantic Marine Center, Norfo	lk Virginia	J Rull DADM	Dimoston
NSTRUCTIONS DATED (II) (III):	TV TIETITA	I V. DUII, NADN	
Field		Aug.	21, 1964
Office		Feb.	8, 1965
Field			18, 1965
Office, Amendment I			1 9, 1965
Office, Amendment I to Feb.	. 19, 1 9 65 I	nstructions Feb.	26 , 1965
Field	•		. 2 , 1965
Office			6, 1965
Office Amendment I			1966
Field		Mar.	. 15, 1966
Office Amendment I	•		. 26, 1966
METHOD OF COMPILATION (III);			
Graphic			
	STEREOSCO	PIC PLOTTING INSTRUMEN	T SCALE (III):
MANUSCRIPT SCALE (III):	STEREOSCO	OPIC PLOTTING INSTRUMEN	NT SCALE (III):
		OPIC PLOTTING INSTRUMENT	
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DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II):		DATE:
Name		
None MEAN HIGH WATER LOCATION (III) (STATE DATE	E AND METHOD OF LOCATION):	
Air photo compilation - Aug. 1		
NO MEAN LOWER LO		
16 DELINEATED ON T.	HIS MAP.	
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. E. Roundtree		17 Nov. 1965
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. S. Kornspan		17 Nov. 1965
CONTROL PLOTTED BY (III):		DATE
None		
CONTROL CUITAVED BY (III)		
CONTROL CHECKED BY (III):		DATE
RADIAL PLOT OR STEREOSCOPIC CONTROL EXT	TENSION BY (III):	DATE
None		
STEREOSCOPIC INSTRUMENT COMPILATION (III)	PLANIMETRY	DATE
	Inapplicable	
Toomaldaabla	CONTOURS	DATE
Inapplicable	Inapplicable	
MANUSCRIPT DELINEATED BY (III):		DATE
B. Wilson		10 July 1968
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation: L. L. Graves		DATE
Field Edit		August 1968
Scribing and Stickup REMARKS:		
Field Edit by FIELD	EDIT CANCELLED	Date 8/06/75

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

USC&GS Type "W"

		TOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	ST	AGE OF TIE	E
6ЦW—18Ц9 and 1850	15 Aug. 1964	10:50	1:30,000	4.3 f	t. abov∈	MLLW
			3			
		TIDE (III)	PREDICTED			DIURNĀ
				RATIO OF RANGES	MEAN RANGE	XPENNA RANGE
REFERENCE STATION:	CORDOVA				10.0	12.1
SUBORDINATE STATION:	PORT CHALME	RS, ALASKA			9.3	11.7
SUBORDINATE STATION:			<u></u>			
WASHINGTON OFFICE REVIEW B	Y (IV):			DATE:		
PROOF EDIT BY (IV):				DATE:		
NUMBER OF TRIANGULATION ST	ATIONS SEARCHED FOR	(II): O	RECOVERED: O RECOVERED:	(DENTIFIE		
NUMBER OF BM(S) SEARCHED F	IDENTIFIE	D				
NUMBER OF RECOVERABLE PHO	OTO STATIONS ESTABLIS	HED (III):	0			
SUMBER OF TEMPORARY PHOTO	HYDRO STATIONS ESTA	BLISHED (III):	0	•		
REMARKS:			<u> </u>			

T-12713

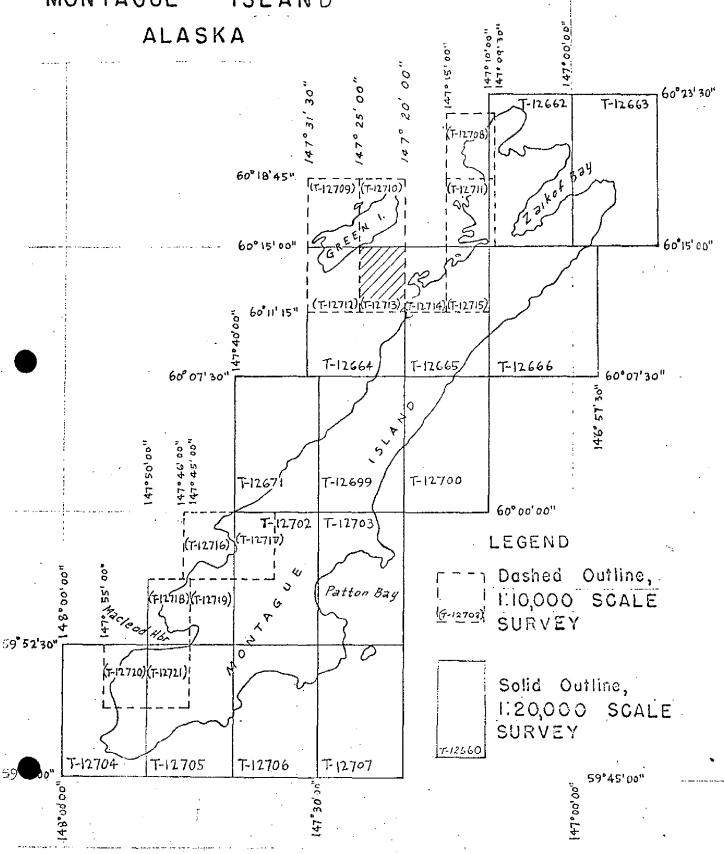
COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit.	8/68	Incomplete manuscript
Field edit cancelled.	8/06/75	Incomplete manuscript
Final Review	. 8/77	Class III manuscript
A FEW CORRECTIONS WERE MADE PRIOR TO REGISTRATION.	TO MARINE CHARTS 6/8/18	

JOB PH-6410

SHORELINE MAPPING

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

MONTAGUE ISLAND



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 Project PH-6410 T-12713

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

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STRIP #1
                                                 ▲ used in adjustment
  JUAN, 1965
  △ sub station "A"

∧ used as check

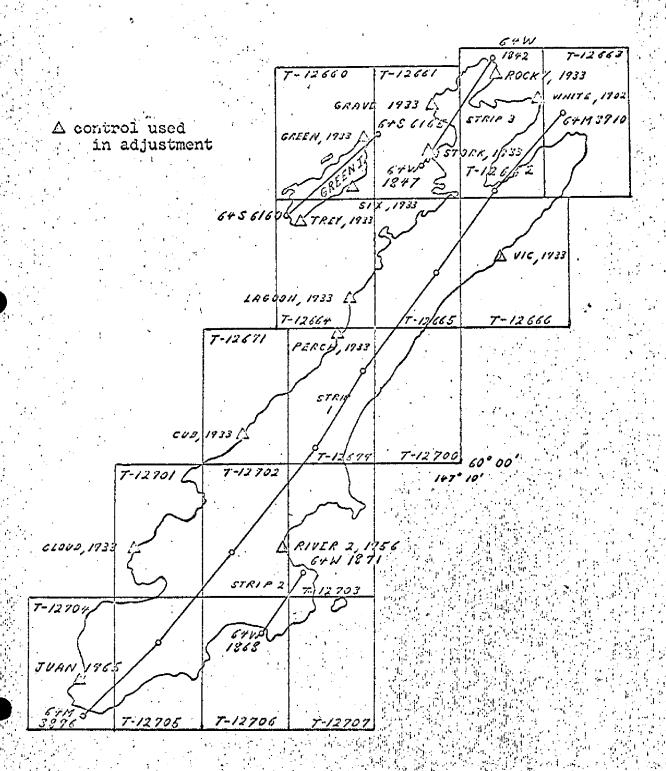
                       -45.1
 ▲ sub station "B"
                       - 1.0
  CLOUD, 1933
  △ sub station "A"
                       + 8.8
 A sub station "B"
                       + 1.1
  CUB, 1933
  △ sub station "A"
                       - 7.0
  ▲ sub station "B"
                       + 1.5
                                - 3.7
  PERCH, 1933 RM #3
A sub station "A"
                                + 0.1
                       - 1.9
 ∆ sub station "B"
                       -00.2
                                - 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)
             +0.4 -0.3
-0.8 +0.8
  14401
  A 14402
  14403
            +0.9) -1.2
             -0.4
                     +0.4
 . 14404
  STRIP #3
 ROCKY, 1933
 ∆ sub station "A"
                        2.0
  ▲ sub station "B"
                         0.0
                                  0.0
  GRAVE, 1933 🔌
  ▲ substation "A"
                       0.0 0.0
-1.8 -1.0
  ∆ sub station "B"
  STORK, 1933
  ∆direct
                      # 0.1 0.0 0.0 m
  ∆ sub station
GREEN ISLAND
  TREY, 1933
  ▲ sub station "A"

△ sub station "B"
                       0.0
                                0.0
                       - 0.3
  SIX, 1933 RM #2
 △ sub station "A" - 1.9 + 0.6

▲ sub station "B" 0.0 ... 0.0
 GREEN, 1933
 ▲ sub station "A"

△ sub station "B"
                       0.0
                                  0.0
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AEROTRIANGULATION SKETCH
MONTAGUE ISLAND
PH-6410
November, 1965







DESCRIPTIVE REPORT CONTROL RECORD

None	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 moter) ORWARD (BACK)								9
SCALE FACTORN	N.A. 192 DISTANCE FROM GREE IN METERS (1 F1.								DATE July 10, 1968
SCALE OF MAP 1:10,000 SCAL	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE								снескер ву В. Wilson
SCA	DATUM		ı						
NO. PH-6410	SOURCE OF INFORMATION (INDEX)								DATE Jan. 22, 1968
12713 PROJECT NO.	STATION	NONE							A. C. Rauck, Jr.
MAP T-	<u> </u>								COMPUTED BY

COMPILATION REPORT T-12713

31. DELINEATION:

The graphic method was used for delineation, orienting the two photographs to Kelsh-compiled T-12714.

There was no field inspection prior to compilation.

The photography was good; the entire water area was not covered.

32. CONTROL:

See Photogrammetric Plot Report attached.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

Shoreline and all details were delineated from office interpretation of the photographs. It appears the entire area was raised by the earthquake, making one or two larger islands where there were five or six islets; also much ledge is now awash.

36. OFFSHORE DETAILS:

See Item 35.

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None.

39. <u>JUNCTIONS</u>:

Satisfactory junction was made with T-12714 to the east. The other junctions are all through water areas: T-12710 to the north, T-12712 to the west, and T-12664 (1:20,000 scale) to the south.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison with USGS 1:63,360 scale Quadrangles SEWARD (A-1), ALASKA, dated 1953 and SEWARD (A-2), ALASKA, dated 1951 with minor revisions 1963, shows that there has been a rising of the land in this area.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison with Chart 8515, scale 1:81,436 (at Lat. 60° 00'), published November 1935 (7th Edition), revised February 14, 1949, shows the same differences as with the quadrangle.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

B. Wilson

Cartographic Technician

Ubut C. Rauch D. FOR

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

albert C. Ranck In

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6410 (Montague Island, Alaska)

T-12713

- ∠Channel Island
- ✓ Montague Strait

Approved by:

Charles E. Harrington Staff Geographer - C51x2

FORM C&GS-1002			u.	S. DEPARTMENT OF COMMERCE
(9-00)	ьно.	TOGRAMMET	RIC OFFICE REVIEW	COAST AND GEODETIC SURVEY
			12713	
				14
1. PROJECTION AND GRIDS	2 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
LLG	LI	G	LLG	LLG
CONTROL STATIONS				
5. HORIZONTAL CONTROL STA THIRD-ORDER OR HIGHER A	TIONS OF CCURACY	6. RECOVERAB OF LESS TH (Topographic	LE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY stations)	7. PHOTO HYDRO STATIONS
LLG			NÁ	NA
8. BENCH MARKS	9. PLOTTING O	F SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
NA NA	N.A	4	LLG	LLG
ALONGSHORE AREAS (Nautical		<u> </u>		
12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
LLG	LI	LG	LLG	LLG
16. AIDS TO NAVIGATION	17. LANDMARKS	S	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
LLG	LI	. <u>.</u>	LLG	LLG
	1 11	<u> </u>	ши	Пра
PHYSICAL FEATURES 20. WATER FEATURES		71. NATURAL (FROUND COVER	22. PLANETABLE CONTOURS
201 WATER PEATORES		TIN MAI UNAL S	SKOUND COVER	22. PLANE ABLE CONTOURS
LLG	ļ		NA	NA NA
23. STEREOSCOPIC	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26, OTHER PHYSICAL FEATURES
INSTRUMENT CONTOURS				PEATURES
NA	N.	4	NA	LLG
CULTURAL FEATURES				•
	1 66		I aa	Tag
27. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES
27. ROADS	28. BUILDINGS	LG	29. RAHLROADS	30. OTHER CULTURAL FEATURES
		LG		FEATURES
LLG		LG		FEATURES
LIG BOUNDARIES	LI	G	LLG	FEATURES
LLG BOUNDARIES 31. BOUNDARY LINES N MISCELLANEOUS	LI		LLG	LLG NA
LLG BOUNDARIES 31. BOUNDARY LINES	LI	.G 34. JUNCTIONS	LLG	LLG
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REVIEW REPORT T-12713

SHORELINE

August 15, 1977

61. GENERAL STATEMENT:

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

This map covers Channel Island which since the earthquake, has increased in size by a significant amount. The entire island is visible on a flight of photographs flown south of the island but lies very close to the edge. A flight to the north touches on the northern edge of the island's foreshore but this area of the photographs contain glare. Some phazards may not be identifiable along the north side of the island because of the glare.

T-12713 occupies the northeast section of 1:20,000 scale map, T-12664. Details in this area are depicted on T-12713 only.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with T-4837, 1:20,000 scale, dated June-September, 1933, compiled on the Valdez Datum. See Paragraph 61 for differences in shoreline.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangles Seward (A-1), Alaska dated 1953 and Seward (A-2) Alaska dated 1951, revised 1963, each 1:63,360 scale.

The existence and position of a submerged rock mapped at lat. 60° 12', long. 147° 21' cannot be verfied photogrammetrically. The one photograph covering that area (64W-1850) is obscured by glare. See Paragraph 61 for shoreline differences.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic survey was 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. A foul area charted at lat. $60^{\circ}12^{\circ}$, long. $147^{\circ}21^{\circ}$ (1% fathoms) is not discernible on the photographs. The one photograph covering the area (64W-1850 is obscured by glare.

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:

Q. I. Shands

A. L. Shands Final Reviewer

Approved for forwarding:

sph W Vbrasek

Joseph W. Vonasek

Chief, Photogrammetric Branch, AMC

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Chief, Photogrammetric Branch

Chief, Coastal Mapping Div.