10738

FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE Environmental science services administration coast and geodetic survey

DESCRIPTIVE REPORT

Type of Survey SHORELINE
Field No. Office No. T-10738
LOCALITY
State ALASKA
General localitySUMNER STRAIT
Locality SPANISH ISLANDS & CORA POINT (Coronation Island)
195561
CHIEF OF PARTY E. W. Richards, Chief of Farty William F. Deane, Baltimore District Office Alfred C. Holmes, Director, A. M. C.
LIBRARY & ARCHIVES
DATE

DESCRIPTIVE REPORT - DATA RECORD

T -10738 and T-10679

Project No. (II): Ph-5702

Quadrangle Name (IV):

Field Office (II): C&GS Ship HODGSON

Chief of Party:

E. W. Richards

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge:

William F. Deane

Instructions dated (II) (III):

27 November 1957

Copy filed in Division of:

· Photogrammetry (IV)

Method of Compilation (III): Air Photographic (multiplex)

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:10,000

Scale Factor (III):

1.000

Date received in Washington Office (IV)

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

N.A. 1927

Vertical Datum (III):

Mean sea level except as follows: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III):

SPAN, 1923

Lat.: 55° 57' 50.561"

Long.: 134° 06' 20.281"

Adjusted

Miradiosted

Plane Coordinates (IV):

U. T. M.

State: Alaska

Zone:

Х⇔

1957

DESCRIPTIVE REPORT - DATA RECORD (Horizontal Control Identification only)

Field Inspection by (II): E. W. Richards

J. P. Randall

M. D. Christensen)

Planetable contouring by (II):

Date: 1

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location):

21 September 1955, Air-photographic (multiplex) (date of photography)

Projection and Grids ruled by (IV): J. B. Phillips

Date: 22 Nov. 1957

Projection and Grids checked by (IV): I. Y. Fitzgerald

Date: 22 Nov. 1957

Control plotted by (III): B. Kurs

Date:

11 Dec. 1957

Control checked by (III): J. C. Cregan

Date:

11 Dec. 1957

Radial Plot or Stereoscopic D. M. Brant

Date:

19 Dec. 1957

Control extension by (III):

Planimetry D. M. Brant

Date:

20 Dec. 1957

Stereoscopic Instrument compilation (III):

EXPLOSION

Date:

Manuscript delineated by (III): Jos. D. McEvoy

Date:

6 Feb. 1958

Field edit applied: Judson

Judson Councill

21 Dec. 1961

Photogrammetric Office Review by (III): D. M. Brant

Date: 11 Feb. 1958

Field Edit Review:

R. Glaser

22 Dec. 1961

Elevations on Manuscript checked by (II) (III):

Date:

te: ----

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

Camera (kind or source) (III): U.S.C. & G. S. Type W, 6" focal length

		PHOTOGRAPHS (II	l) ·			
Number	Date	Time	Scale	Sta	ge of Tid	e
55 - W-93 9 7	9/21/55	1404	1:25,000	0.51	below	MHW
55-W-9398	tt	1405	11	11	H .	n
55-W-9399	1)	1406	in . ·	Ħ	H	11
55-W-9400	H 1	1407	11	, H	Ħ	11
55-W-9400A	tt .	1408	Ħ	11	11	Ħ
55 - W-9309	n	1305	tt	1.9	Ħ	51
55-W-9310	Ħ	1305	tt	ti	n	11

From Predicted Tables

Diurnal

Reference Station: Subordinate Station:

Subordinate Station:

Sitka, Alaska

Bort McArthur, Kuiu, I.

Ratio of Ranges	Range	Range	
	7.7	9.0	
1.1	8.1	10.6	

Date:

Date:

Washington Office Review by (IV):

Land Area (Sq. Statute Miles) (III):

Final Drafting by (IV):

Drafting verified for reproduction by (IV): Date:

Date: Proof Edit by (IV):

Shoreline (More than 200 meters to opposite shore) (Ⅲ): ** Shoreline (Less than 200 meters to opposite shore) (III): --

Control Leveling - Miles (II): Identified: Recovered: 5 Number of Triangulation Stations searched for (iI):

Identified: Number of BMs searched for (II): Recovered:

Number of Recoverable Photo Stations established (III): None Number of Temporary Photo Hydro Stations established (III): None

Remarks:

1

T-10738

T-10738 - 14 T-10679 - 15

T-10738

COMPILATION DATE	REMARKS
Dec. 1961	Supersedes all previous copies
Dec. 1971	
-	
	Dec. 1961

•	~ ~ EW	SHOREL	INE	MAPPING	PROJECT
	End of Social Med	NEW YORK	Ph	-5702	
	· Color of the state of the sta			NATION U ISLANI ALASKA	and OS,
			Jf: icie	al Mileage For	Cost Accounts -
	KUIU S		Sheet No.	t Area Sq. Mi.	Lin. Mi. Shoreline
CHATHAI STRAIT	1SLAND 56°26'15" 134°20'00" 10708 10704 10705 10706 10707 10716 10717 10712 10713 10714 10715 10716 10717 10723 10723 10724 10725 10856 10227 10728 10728 10729 10730 1073+ 10868 10636 10637 10678 10679 10680 10634 10682 15LAND 55°43'45"	of Colonial	10676 10676 10676 10686 10686 10706 10706 10706 10706 10706 10716 10716 10716 10716 10716 10716 10726 10726 10726 10726 10726 10726 10726 10726 10726 10726 10726 10726 10726 10726 10726 10736	8631821069442151421514952418130650010934161	31.76.76.58.96.74.08.7-92.65.1.1.0.1.55.34.2.7.35.59.36.1.48.6.28.1.2.79.36.7.98.6.51.6.1.88.1.30.74.48.6.298.298.298.298.298.298.298.298.298.298

SUMMARY

DESCRIPTIVE REPORT T-10738

This shoreline manuscript, scale 1:10,000, is one of 45 maps planned for Project PH-5702, which includes the south half of Kuiu Island, Spanish Islands, and Coronation Island, in Southeast Alaska. Only 33 maps were compiled. T-10738 covers the Spanish Islands.

Bridging was by multiplex, using single-lens photography taken near high water on September 21, 1955. The bridge was run between field identified control points. Detail points were dropped directly to the plastic sheets and compilation was done graphically, without the benefit of field inspection. Classification of this map is INCOMPLETE.

Field edit was performed on the east side of the islands on this manuscript in June 1961. Corrections by this edit include shoreline, rocks, and foul areas. No Form 567 was furnished for SPANISH ISLAND LIGHT. No Field Edit Reportwas available for inclusion with this Descriptive Report. The west side of the islands was not edited.

Final review was done at the Atlantic Marine Center in December 1971.

The compilation manuscript was an acetate sheet 3 minutes 45 seconds in latitude by 5 minutes in longitude.

A cronaflex copy of the final reviewed manuscript and a negative have been forwarded for record and registry.

PHOTOGRAYMETRIC PLOT REPORT Project Ph-5702

Field Inspection Report - None submitted. Report on horizontal control attached.

21. AREA CO VERED

T-10738, T-10676, T-10677, T-10678, T-10679, T-10680, T-10681 and T-10682.

22. METHOD

Multiplex bridges were run between horizontal control points as shown on Sketch of Control attached. The 1:10,000 scale projections on plastic were used directly under the multiplex bar and detail points plotted for subsequent delineation, using ratio prints. It was endeavored to obtain a consistent set of points for this purpose and also for use by the hydrographer. In comparing shoreline points in overlapping flights, it was noted that identical points were very difficult to identify.

23. ADEQUACY OF CONTROL

Identification of horizontal control on the Spanish Islands was adequate. Identified control on Coronation Island is sparse. Three points, namely, LAST, 1922; HEIM, 1922 and AATS, 1922 are poorly located with respect to the photography. As noted in correspondence, attached, between the Director and Chief of Party (field), the geographic position of TOP-, 1922 was in considerable error. No other control point in the area was provided. All other horizontal control points, where visible, were held within a probable error of 0.5 mm. Many of the points were not distinct enough to be pin-pointed. The field inspection party's choice of well-defined points was limited. Control is adequate for an allowable error of between 0.5 mm. and 1.0 mm.

The field party furnished two Sub. Pts. for most of the stations identified by this method. This was helpful as often only one point was discernible in the models. The following points were either not visible or identification was very doubtful:

WIT, 1922 - Sub. Pt. 1 - Not visible.
WIND, 1922 - Sub. Pt. 1 - Not visible.
TRE, 1922 - Sub. Pt. 2 - Not visible.
POIE, 1922 - Sub. Pt. 2 - Doubtful.
NO, 1922 - Sub. Pt. B - Doubtful.

Two points, ILLE, 1922 and CORONATION ISLAND HIGHEST PEAK, 1916 2343 identified on the photographs with the notations "probable location".

They appeared to hold very well. In addition, office identification from published descriptions was attempted for several other points. Of these the following appeared reasonable with regard to our bridging solutions:

HI, 1922. END, 1922 PIN, 1922

24. SUPPLEMENTAL DATA

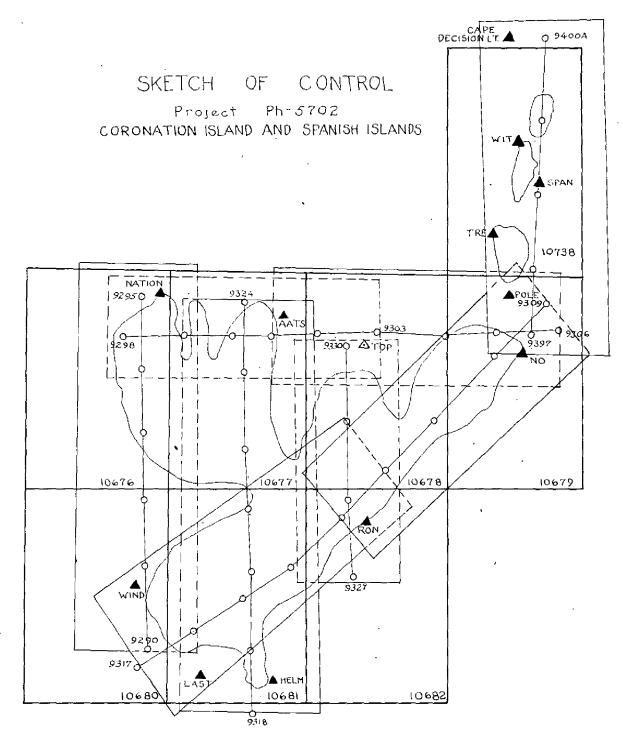
None.

25. PHOTOGRAPHY

Coverage and overlap of photography was adequate. Diapositives were good.

Respectfully submitted 3 February 1958

Henry P. Eichert Super. Carto. (Photo.)



LEGEND

A Identified and held

A Identified and not held

HORIZONTAL CONTROL

Only control station identification was attempted on the Spanish Islands and Coronation Island. Receipt of instructions and field data for this project was received so late in the season that landing conditions were not ideal and in some cases impractical to attempt. The stations were visited on different dates until it was apparent that it was uneconomical to continue offshore operations at an expense to our inshore hydrography which still had a few holidays.

A total of 13 stations of the 15 requested were inspected. The discrepancy in position of station TOP was not resolved in the field as mentioned in the Director's letter of 20 Sept. 1957, File No. 731-1fs due to unfavorable weather. Possibly a position for the unstamped disk can be obtained from records of the previous hydrographic survey in 1922-23.

Control Identification By

E. W. Richards

J. P. Randall

M. D. Christensen

Approved and forwarded:

E. W. Richards, LCDR, C&GS Comdg., Ship HODGSON



DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

Ship HODGSON, Edna Bay, Alaska POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

COAST & GEODETIC SURVEY

11 Sept. 1957

To:

The Director

Coast and Geodetic Survey

Washington 25, D. C.

Att.:

Chief, Photogrammetry Division

· Subject:

Instructions - Project PH

There appears to be a discrepancy in the G. P. of station TOP 1922 on Coronation Island which was to have been photo-identified before the completion of this season.

An unstamped hydrographic disk was found on the point In Lat. 55° 5415, Long. 134° 1345 W. and fits the description for the station. However, the G. P. Plots on a rock which is awash only at low water. A check of the records in your office may clear up this difference.

Identification of horizontal control is progressing as rapidly as weather and landing conditions permit, which is difficult on the open coast at this time of the year. To date, all of the identification is complete on Kuiu Island, Spanish Islands, and on the northern portion of Coronation Island.

E. W. Richards,

LCDR, C&GS

Coundg., Ship HODGSON

ROPE ON A

731-1fs

20 September 1957

To:

LCOR E. W. Richards USCAGS Ship HODGSON Edna Bay, Alaska

Subject: Station TOP 1922, Project PH-67

An observation was found in the 1922 records from station CORA to TOP. Using this observation and the one from AATS, a new position for TOP was computed, but it plots (Lat. 55-54-28.68, Long. 134-12-10.51) at the northeast end and not at the northwest end of the point as noted in your letter of 11 September.

The angles CHAN and CORA in the triangle TOP-CHAN-CORA sum to 185°, indicating one of the directions is in error. Since the discrepancy in positions cannot be resolved here, station TOP should be rejected, unless you can determine a new position for it. If the station is not re-located, please substitute station CHAN for photo-identification.

(Signed) Charles Histor

Assistant Director

cc: Seattle District Officer

U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

FÖRM **164** (4-23-54)

COAST AND GEODETIC SURVEY

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1922 2	STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE LONGITUDE	OR y - COO OR x - CO(ROINATE DRDINATE II	DISTANCE FRO OR PROJECTION FORWARD	M GRID IN FEET. LINE IN METERS (BACK)	DATUM	TANCE Projec Weters	FROM GRID OR PROJE IN METERS FORWARD
1922 19-33 1764 134 07 16-733 290-2 (790-4) 1922 19-608 183-7 (1372-0) 1922 19-608 183-7 (1372-0) 1923 19-388 134 08 06-975 1553-8 (291-9) 1923 19-368 134 06 20-281 1553-8 (291-9) 1924 134 06 20-281 1553-8 (1369-2) 134 06 15-10 (1369-2) 15-10 (1	Ш	609-0	N.A.	35	82	39-757	1229.6	(626.1)			
1922 0-609 55 57 15.638 183.7 (1372.0) 1923 0-509 134 08 06.975 155.7 (865.4) 1923 0-3565 134 06 06.975 1563.8 (291.9) 1922 134 06 20.281 354.8 (689.0) 134.08 154.9 (889.2) 134 08 152.7 (893.0) 152.2 (134.9) 152.2 (134.9) 152.2 (134.0) 152.2 (134.0) 152.2 (134.0) 152.2 (134.0) 152.2 (134.0) 152.2 (134.0) 152.2 (134.0) 152.2 (134.0) 134.07 122.2 (134.0) 134.07 122.2 (134.0) 134.07		p. 551	1351	134	20	16.733	290•2	(4.052)			
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134 96 20.281 32.8 (689.0) 134. 134. 1360.6 135.9 134. 1360.6 134. 134. 136.1 1360.6 134. 134. 136.1 136.1 134. 136.1 1	1	G-3565		55	27	50,561	1563.8	(291.9)			
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1922 134 08	Sta.			55	57		495.1	(1360,6)			-
Sta. 2 Sta. 1 Sta. 1 Sta. 1 Sta. 1 Sta. 1 Sta. 2 Sta. 3 Sta. 2 Sta. 2 Sta. 3 Sta. 2 Sta. 3 Sta. 3 Sta. 3 Sta. 4 Sta. 4 Sta. 5 Sta. 5				134	98		151.9	(889.2)		•	`
Sta. 1 Sta. 1 Sta. 2 Sta. 3 Sta. 2 Sta. 3 Sta. 3 Sta. 4 Sta. 5 Sta. 5 Sta. 6 Sta. 6	Sta.			55	57		485.8	(1369.9)			
Sta. 1 1922 Sta. 2 Sta. 2 Sta. 2 Sta. 2 134	- 1			134	98		150.1	(891.0)			i
1922	Sta.			55	8 2		1237.4	(618.3)			
Sta. 2 1922 1922 134 07 291.2 (749.4) 291.2 (749.4)				134	20		288.3	(752.3)			
1922 (749-41) 291-2 (749-41)	Sta.			55	82		1221.7	(634.0)			
73/0/CT D Vines				134	0.0		291.2	(148.4)			
10/0/CT TO 10/0/CT											
7) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c									ļ ;		
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Dischart 19/9/67					:						1
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COMPTIATION REPORT (Preliminary) T-10738 & T-10679

31. DELINEATION

Shoreline and all details were delineated by graphic methods using detail points established by the multiplex bridging. 1:10,000 ratio points were ordered to scale for this purpose and for subsequent use by the hydrographer.

32. CONTROL

Refer to Photogrammetric Plot Report bound with this report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline and details were delineated from office inspection without benefit of field inspection. Hence it is classified in the category "incomplete". Many offshore rocks and small islands were delineated by office interpretation. Other areas that may be rocks, ledge or kelp have been enclosed with a broken line and labeled foul. Some shoreline obscured by shadow, or overhang was delineated with the approximate shoreline symbol.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

Nona.

38. CONTROL FOR FUTURE SURVEYS

There were no Recoverable Topographic points established. Detail points established along the shoreline will aid the hydrographic party in locating photo-hydro signals.

39. JUNCTIONS

Junction was made to the south of T-10738 with T-10579 and to the west of T-10579 with T-10678. There are no other junctions to be made.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to Photogrammetric Plot Report, item 23, attached.

41. through 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

None available.

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 8173, scale 1:40,000, published March 1939, 2nd edition, 10/22/51.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted

5 February 1958

Henry P. Eichert

Super. Carto. (Photo.)

Approved and forwarded

For William F. Daane

CER C&GS

Baltimore District Officer

October 26, 1971

GEOGRAPHIC NAMES FINAL NAME SHEET

PH-5702 (Alaska)

T-10738

Decision Passage Spanish Islands Summer Strait

Approved by:

Joseph Wraight A. Joseph Wraight Chief Geographer

Prepared by:

Frank W. Pickett Cartographic Technician

T-10738 and T-10679

49. NOTES FOR THE HYDROGRAPHER

A set of ratio prints at a scale of 1:10,000 has been prepared. Detail points along the shoreline have been established for use in locating hydrographic signal sites. They have been shown on the photographs.

PHOTOGRAMMETRIC OFFICE REVIEW

T. 10738

,	4a. Classification label
CON	NTROL STATIONS
5. Horizontal control stations of third-order or highe	or accuracy6. Recoverable horizontal stations of
than third-order accuracy (topographic stations)	7. Photo hydro stations8. Bench marks
9. Plotting of sextant fixes10. Photogram	metric plot report 11. Detail points
ALO	NGSHORE AREAS
. (Nat	utical Chart Data)
12. Shoreline13. Low-water line	. 14. Rocks, shoals, etc15. Bridges16.
_	Other alongshore physical features 19. Other alo
shore cultural features	
PHY	SICAL FEATURES
20. Water features 21. Natural ground co	ver 22. Planetable contours 23. Stereosc
instrument contours 24. Contours in ge	neral 25, Spot elevations 26. Other phy
features	
CULT	TURAL FEATURES
27. Roads 28. Buildings 29. R	aliroads 30. Other cultural features
1	BOUNDARIES
31. Boundary lines 32. Public land lines	
MI	SCELLANEOUS
33. Geographic names34. Junctions	35. Legibility of the manuscript 36. Discrep
overlay 37. Descriptive Report	38. Field Inspection photographs39. Forms
40. Jeel M. Grat	Jem // Cichel
Reviewer	Supervisor, Review Section or Unit
41. Remarks (see attached sheet)	
FIELD COMPLETION ADDITIONS	S AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field	completion survey have been applied to the manuscript.
manuscript is now complete except as noted under	
Judson Councill	
Judson Councill Compiler 12-21-61	Supervisor

REVIEW REPORT T-10738

SHORELINE

December 15, 1971

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print, pages 20 through 23, with differences noted in Items 62 through 65, is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with Survey No. 4054, scale 1:20,000, dated 1923. Differences between this map and T-10738 are shown in blue on the comparison print.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with U.S.G.S. Quadrangle CRAIG (D-7 and D-8), ALASKA, scale 1:63,360, dated 1948. Significant differences between the two maps are shown in brown on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with an unverified copy of the smooth sheet for H-8604, scale 1:20,000, dated 1961. The only differences between H-8604 and T-10738 are several rocks awash that were not visible on the photographs. These rocks are shown in purple on the comparison print.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 8173, scale 1:40,000, 5th edition, dated August 30, 1969. Differences between the chart and T-10738 are shown in red on the comparison print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with Job Instructions and Bureau requirements. Control was adequate for mapping with a probable error of between 0.5 mm and 1.0mm. See Photogrammetric Plot Report. No accuracy tests were run in the field.

Reviewed by:

Charles HBishop

Charles H. Bishop Cartographer December 15, 1971

Approved for forwarding:

Melvin J. Umbach, CDR, NOAA

Chief, Photogrammetry Division, AMC

Approved:

Alfred C. Holmes, RADM, NOAA

Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch, Chief, Coastal Mapping Division

