FORM **C&GS-504**

U.S. DE PARTMENT OF COMMERCE Environmental science services administration Coast and geodetic survey

DESCRIPTIVE REPORT

Type of Survey SHORELINE
Field No. Office No. T-10709
LOCALITY
State ALASKA
General locality KUIU ISLAND - SUMNER ISLAND
Locality STRAIT ISLAND
19. 55 =65
CHIEF OF PARTY J. E. Waugh, Chief of Field Party M. J. Tonkel, Baltimore District Officer Alfred C. Holmes, Director, A. M. C.
LIBRARY & ARCHIVES
DATE

DESCRIPTIVE REPORT - DATA RECORD

T- 10705 thru T- 10709

PROJECT NO. (II):				
(Ph-5702)	21016			
TIELD OFFICE MAY			Tours of Birty	
Ship HODGSON			J.E. Waugh	
PHOTOGRAMMETRIC OFFICE (III):			OFFICER-IN-CHARGE	
Baltimore,	Maryland		M.J.Tonkel	
NSTRUCTIONS DATED (II) (III): 10/29/57 11/27/57 11/20/57 9/11/59	Project Diago 22/MEK, S-2-F	ram Ho		
EVIDD OF COMPILATION (III):	•			
Graphi	.c			
MANUSCRIPT SCALE (HI):		STEREOSC	COPIC PLOTTING INSTRUMENT SCALE (III):	
1:10,000				
ATE RECEIVED IN WASHINGTON OFF	CE (IA):	DATE REP	ORTED TO NAUTICAL CHART E	BRANCH (IV):
APPLIED TO CHART NO.		DATE:	DATE RE	GISTERED (IV):
SEOGRAPHIC DATUM (III):			VERTICAL DATUM (III): M	.H.W.
N.A.	1927		MEAN SEA LEVEL EXCEPT	
14 % XI \$	1.741		Elevations shown as (25) refer	to mean high water
			Elevations shown as (5) teler i.e., mean low water or mean lo	
REFERENCE STATION (III):				·
REEF, 2, 19	15-1927			
	LONG.:		T = an userno	
LAT.:	1 '	. / - 1 - 0 11	ADJUSTED UNADJUSTED	
	133° 46' 3	36.143"	}	
56° 2LLI 08.825"	133° 46' 3	36.143"	STATE	2 ONE

DESCRIPTIVE REPORT - DATA RECORD

TIELD INSPECTION BY (II):		DATE:
Herman H.	Druebert	1958
MEAN HIGH WATER LOCATION (III) (STATE DAT	E AND METHOD OF LOCATION):	1
21 September 1955, g	raphic	
- , , , , ,		
PROJECTION AND GRIDS RULED BY (IV):		DATE
Р.	J. Dempsey	10-23-59
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R.	D. Shoup	10-28-59
CONTROL PLOTTED BY (III):		DATE
В.	Wilson	11-06-59
CONTROL CHECKED BY (III):		DATE
н.	R.Rupolph	11-19-59
ADIAL PLOT GENNEDEDSEDRUNGDNISONES	CHENERAL BY (III):	DATE
	A. Senasack	06-09-60
	·	
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY	DATE
Not explicable		
Not applicable	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III):		DATE
R.	Whitson	97-12-60 11-16-62
Field Edit corrections: J. SCRIBING BY (III):	Y. Councill	11-16-62 DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
	R. Glaser	08-04-60
Field Edit Review:	H. R. Rudolph	05-02-63
REMARKS:		

Field Edit is complete only in Reid Bay (T-10706 & T-10707)

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

	Wild RC-8 "W"					
		HOTOGRAPHS (HI)			*10= 0= ···	
NUMBER 55 W 9551 thru 9554	9-21-55	15:10	1:10,000		tage of ti	
55 W 9590 " 9593	11	15:32	ú	11.6	n n	11
55 W 9678 ** 9680	9-22-55	10:05	11	4.1	u ti	¥
655 W 9687 " 9690	11	10:15	ti	3.9	u u	11
55 W 9696 " 9699	13	10:30	1)	3.8	ti ti	11
	·					
* T-10709						
ł		·				
) TIDE (III)	PREDICTED	<u> </u>	<u> </u>	
				RATIO OF RANGES	MEAN RANGE	ALLENS RANGE
REFERENCE STATION: SITK	A, ALASKA				7.7	9.9
subordinate station: Port	Protection				10.1	12.4
BORDINATE STATION:					·	
Atlantic Marine Center KXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		С. н	. Bishop	DATE:	Jan. 197	2
PROOF EDIT BY (IV):				DATE:		
NUMBER OF TRIANGULATION STAT	TIONS SEARCHED FO	^{R (ii)} : 25	RECOVERED: 23	IDENTIFI	ED: 15	
NUMBER OF BM(S) SEARCHED FOR	(11);	None	RECOVERED:	!DENTIFI	ΕĎ	
NUMBER OF RECOVERABLE PHOTO	STATIONS ESTABL	(SHED (III): Non	e	,- -,		
NUMBER OF TEMPORARY PHOTO H	YDRO STATIONS EST	rablished (III):	None			
REMARKS:	Sear	ched for	Recovered I	dentified	 -	
		1	1	1	· -	
T10706						
		11	9	4)		
T10706		11 5 8	9 5 8	4 4		

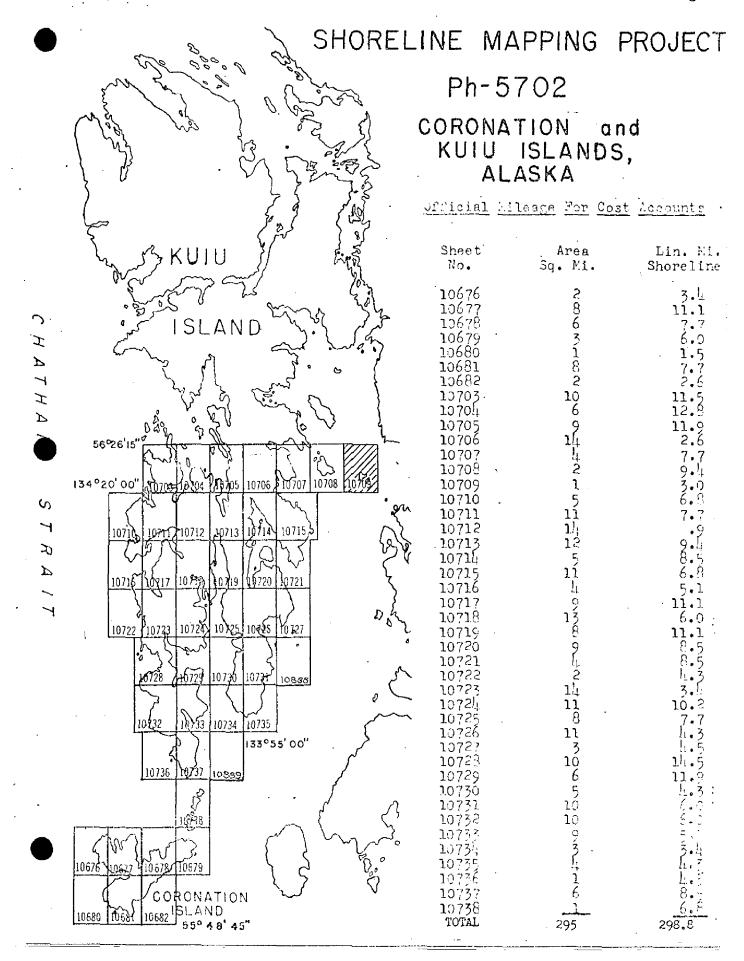
T-10709

COMPTIATION RECORD

COMPLETION DATE

REMARKS

Feb. 1962	Superseded
Dec. 1963 Dec. 1965	
Jan. 1972	
·	
	Dec. 1963 Dec. 1965



SUMMARY

DESCRIPTIVE REPORT T-10709

This shoreline manuscript, scale 1:10,000, is one of 45 maps that were planned for Project PH-5702, which includes the south half of Kuiu Island, Spanish Islands and Coronation Island, in Southeast Alaska. The only land area within the limits of T-10709 is Strait Island.

Compilation was by radial plot. A 1:20,000 scale plot, using 9-lens photography of 1958, was constructed to verify identified control and establish pass point positions for controlling a 1:10,000 scale plot using 1:10,000 scale ratio prints of single-lens photography taken in September, 1955. The 1:10,000 plot was constructed directly on the map manuscripts. In general, control was adequate for laying the plots. See Photogrammetric Plot Report, Scale 1:20,000, dated June 9, 1960 and Photogrammetric Plot Report, scale 1:10,000, dated June 10, 1960.

Field edit was performed in conjunction with hydrography in the summer of 1965. The classification of this map is ADVANCE.

Final review was done at the Atlantic Marine Center in January 1972.

The compilation manuscript was a vinylite 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.

FIELD INSPECTION REPORT

FOR

SUMNER AND STRAIT ISLANDS

MANUSCRIPTS NOS. T 10708 AND T 10709

2. AREAL FIELD INSPECTION

The area covered are two group of islands that lie north and east of REID BAY at the northwest end of SUMNER STRAIT.

The field inspection was confined to the areas in the immediate vicinity of the control stations. (See instructions on Project Diagram).

The shoreline along these islands is irregular, with many indentations, small wooded islands, islets and off-lying rocks. The foreshore is generally steep and rocky, except in the head of some of coves the beach consists of gravel. The islands rise to an approximate elevation 75 - 100 feet. They are covered with a dense growth of conifers. The trees usually extend from the HWL, although in some cases they overhand it.

The rock outcroppings in this area are in general of igneous and metamorphic origin. The most abundant outcrops are basalt and shale with intrusive calcite and quarts.

Densities and tones were not inspected on the land areas. In the water areas it was confined to the immediate area of the control stations.

Photographic coverage consists of single lens aerial photographs at a scale of 1:25,000. Contact prints were furnished for field use. Definition on the prints is generally good. Station identification was difficult in some cases due to the lack of discernable detail. The compiler may have difficulty in interpreting the MEWL in some portions due to overhanging trees and/or elongated shadows.

3. HORIZONTAL CONTROL

All horizontal control stations indicated on the project diagram for PH 5702 were searched for and reported on form 526.

The light has been removed from the STRAIT ISLAND LIGHTHOUSE. It should be classified as abandoned.

The identification of CCN 1927 is the only dentiful one made.

All other stations were positively identified.

Alaska No. 41,

The description listed on pages 29 and 30/for the four stations established in 1954 by personnel from the Ship LESTER JONES describes the stations as topographic stations. The lists of geographic positions classify them as third order triangulation stations. Recovery notes were submitted on form 526.

L. VERTICAL CONTROL

Inapplicable.

5. CONTOURS AND DRAINAGE

Contours - inapplicable.

There are no important streams on the islands. There is some drainage with definite channels defined on the photographs.

6. WOODLAND COVER

The islands are heavily wooded being covered with conifers, mostly spruce. The trees extend inland from or very close to the HWL.

7. SHORELINE AND ALONGSHORE FEATURES

The shoreline and alongshore features were inspected only in the area of the control stations and then only incident to landing. No other inspection of the area was requested. The area will be field edited at the time of hydrography.

The only cultural features are a few buildings, used during the season, on the eastern side of the cove on the north end of SUMMER ISLAND. It is suggested that circled buildings be shown.

8. OFFSHORE FEATURES

The offshore features were inspected only incident to the identification of control. The area will be field edited at the time of hydrography.

9. LANDMARKS AND AIDS

The buildings referred to above should be charted as solid shapes for use as landmarks close inshore.

There are no fixed aids to navigation.

The floating aids will be located by the hydrographic party.

10. BOUNDARIES, ETC.

Inapplicable

11. OTHER CONTROL

None

12. OTHER INTERIOR FEATURES
Inapplicable

13. GEOGRAPHIC NAMES
Will be covered in a special report.

14. SPECIAL REPORTS AND DATA

Title
1. Photogrammetric field data

Disposition Washington Office with this report.

15-20 Not used.

Herman V. Dwebert

Herman H. Druebert LTJG, C&GS

Approved and Forwarded:

J. E. Waugh CDR, C&GS

C. O., HODGSON

PHOTOGRAMMETRIC PLOT REPORT

Project Ph-5702 Scale 1:20,000

Surveys T-10706 thru T-10709

T-10713 " T-10715

T-10718 " T-10721

T-10724 " T-10731

T-10733 " T-10735

T-10737

T-10888 and T-10889

PURFOSE:

This radial plot was made using 1:20,000 nine-lens photographs. These wide coverage photographs were used to verify identified control and establish positions for pass points for use in controling photogrammetric plut using 1:10,000 scale single-lens photographs. See item No. 6 (Methods) of instructions dated 11 September 1959.

21. AREA COVERED

This radial plot covers the area of the surveys listed above. They are shoreline surveys along the west shore of Sumner Strait, embracing the areas known as Alvin Bay, Reid Bay, Port Beauclerc, Louise Cove, Bear Harbor, Kell Bay, Affleck Canal and Port McArthur.

22. METHOD - RADIAL PLOT

Base sheets with two thousand (2,000) meter grids in black ink, were furnished by the Washington Office.

The Coordinatograph was used to plot the control stations and substitute stations.

A sketch showing the layout of the surveys, distribution of control and photograph centers is attached to this report.

Photographs:

Thirty-six (36) nine-lens, unmounted photographs at a scale of 1:20,000 were used in this plot, numbered as follows:

57480 through 57485

57499 " 57506

57517 " 57527

57532 " 57542

Templets:

Vinylite templets were made using the master templet to correct for film and paper distortion, and chamber displacement.

Closure and Adjustment to Control:

This plot was laid in two parts, southern half and a northern half with the dividing line the area between surveys T-10724 through T-10727 common with both plots. Construction started with photograph 57532 and extended north to 57538. The plot was then extended eastward to the project limits, incorporating the flights 57522 through 57527 and 57499—through 57502.

The second part was an extension of the first part northward to the project limits.

Transfer of Points:

The pass points and photograph centers were pricked on the top templet and then drilled down through the templets and base sheets. Later the coordinatograph was used to scale the grid position of the pass points for transfer to the 1:10,000 map manuscripts.

23. ADEQUACY OF CONTROL

The density and distribution of control was adequate for all surveys in this radial plot.

See item 23 in the single-lens plot report, dated 10 June 1960, covering the same surveys as this plot.

SUPPLEMENTAL DATA

None.

25. PHOTOGRAPHY

The definition of the photographs was good. Due to the difference in time, tide and tone quality between the nine-lens and single lens photographs great difficulty was encountered in trying to prick the identified control on the nine-lens photographs. Great care had to be taken in trying to find a common pass point near the shoreline, one that would leave no doubt that it was the same as the point on the single-lens photographs.

Respectfully submitted 9 June 1960

Leay a Gerasack

Leroy A. Senasack (Carto. (Photo.)

```
AGO, 1954
  2
        CON, 1927
  3
        HOW, 1954
  45
        GAL, 1954
        DELHI, 1915
  6
        BIB, 1954 ·
  7
        REEF 2, 1915
  8
        FOX, 1929
  9
        NER, 1929
 10
        THAT, 1927
       BAY, 1929
FAG, 1929
RUT, 1929
 11
 12
 13
 14
15
        PAR, 1929
        DAL, 1929
 16
        UP, 1929
*17
        TWIN, 1926
       BARE, 1926
*18
*19
        ARM, 1926
*20
       MID, 1926
*21
       ROCK, 1926
*22
       WON, 1925
*23
        GO 2, 1958
       TRI, 1926
*24
 25
        LAST, 1926
 26
       ROSE, 1937
       POM, 1929
 27
 28
       TURN, 1929
 29
       BOULDER, 1915
 30
       TRUS, 1937
 31
       EDNA, 1937
 32
       WEAK, 1937
       FLOR, 1937
 33
       GOOD, 1937
 34
 35
       PEGG, 1937
 36
       GENE, 1937
37
       CORK, 1937
38
       WESS, 1937
       MON, 1929
SUN, 1929
39
40
1:1
       BEAUCLERC 2 (LIGHT), 1922
42
       BEAR, 1936
BITE, 1936
43
44
       ALECK, 1936
45
       BUDD, 1937
                           * On nine-lens photographs only.
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46
       HOME, 1937
       PEN, 1936
47
       ENTER, 1936
48
       HIND, 1936
       ADEN, 1937.
       SOW, 1929
PIN, 1915
51 52 53 54 55
       RUTH, 1937
       VICK, 1937
HOPE, 1936
       BUSH, 1936
       DUB, 1936
MILT, 1937
       MACK, 1937
       HOLM, 1937
       CLEVE, 1886-1922
61
62
       ARTHUR, 1936
       LEMON, 1936
NORTH, 1936
63
64
65
       LEMON POINT ROCK LIGHT, 1958
66
       STAR, 1936
67
       AFFLECK, 1936
68
       JUNE, 1937
69
       BETS, 1937
70
       ALBANS, 1886
      MAC, 1899
MAC, 1936
SHORE, 1923
71
72
73
74
75
       MIDDY, 1936
       ZAG, 1923
76
      CAPEDECISION LIGHT, 1936
77
       SPANISH ISLAND LIGHT, 1936
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78

WAY, 1936

PHOTOGRAMMETRIC PLOT REPORT

Project Ph-5702 Scale 1:10,000

Surveys Nos. T-10706 thru T-10709

T-10713 " T-10715 T-10718 " T-10721 T-10724 " T-10731

T-10733 " T-10735

T-10737

T-10888 and T-10889

21. AREA COVERED

This radial plot covers the area of the surveys listed above. They are shoreline surveys along the west shore of Summer Strait, embracing the areas known as Alvin Bay, Reid Bay, Port Beauclerc, Louise Cove, Bear Harbor, Kell Bay, Affleck Canal and Port McArthur.

22. METHOD-RADIAL PLOT

Map Manuscripts:

Vinylite sheets with polyconic projections in black, U. T. M. Zone 8 grid in red, at a scale of 1:10,000 were furnished by the Washington Office.

All triangulation stations, substitute stations, and common pass point positions taken from the 1:20,000 radial plot were plotted using the Coordinatograph.

A sketch showing the layout of the surveys, distribution of control and photograph centers is attached to this report.

Photographs:

One hundred twenty-six (126) single-lens photographs, ratioed to a scale of 1:10,000 were used in this plot and are numbered as follows:

55-W-9377 thru	9386	55-W - 9612	and !	9613
9400A "	9412	9667	thru	9674
9443 "	9457	9678	Ħ	9680
9463 "	9478	9687	11	9690
9550 "	9570	96 96	11	9701
9576 "	9593	9704		-
11/30	961.9		•	

Templets:

Kodapak or vinylite templets were made of each of the single-lens photographs but no adjustment was made for paper distortion.

Closure and Adjustment to Control:

The common pass points were transferred from the 1:20,000 scale base sheets by scaling their grid position with the Coordinatograph and then plotting them on the 1:10,000 scale map manuscripts with the same instrurent.

The radial plot was constructed directly on the map manuscripts.

This plot was laid in two parts, with the surveys Nos. T-10724 through T-10727 common in both plots. The first part was started at Cape Decision (Survey T-10738) and extended northward up Affleck Canal. After this was done the plot was extended eastward to the project limits. Due to some trouble with the field identification for control station BUSH, 1936 it may be advisable to reidentify this station. In the area between DUB, 1936 and ENTER, 1936 there is a flight of photographs the centers of which fall in the water. Since there is no field identified control, and only one control station office identified, this part of the plot is also considered fair.

The second part of the plot was extended northward but would not tie into control station ROSE, 1937. The two flights which go parallel with Port Beauclerc, taken in the morning with most of the pass points away from the tree shadows, are considered better. These two flights were extended from the mouth of Port Beauclerc to the head and tied into Sub Point A for ROSE, 1937. (See item 23) After this was done, the plot was extended northward to the project limits with no difficulty.

The definition on the photographs is very poor around BEAUCLERC LIGHT, 1915. It is a white object on what appeared to be white ledge and for this reason it is recommended that this light, or ISLE, 1929 be reidentified by sub point method. The point on the office photographs is the same as the field identified point.

Transfer of Points:

The positions of all photograph centers and pass points were pricked on the top templets and then drilled through the templets and map manuscripts.

23. ADEQUACY OF CONTROL

In general, the density and distribution of control was adequate for this project. However, there are several gaps, some being where the field man was verifying the existence of the stations but did not identify them.

The following control stations could not be held in the plot:
BUSH, 1936 - Norhing seems to agree at this station. The distance and direction of the plotted position does not agree with field identification on the contact print or the Form 152. The location of this station makes it a critical one for the construction of a good rigid radial plot. A note was attached to a field photograph and the hydrographer was requested to reidentify this station.

HCME, 1937 - The radially plotted position for this direct identification for this station falls approximately 1.1 mm to the NW of the plotted position. This point was reidentified in the office to agree with the description.

RUT, 1929 - The radially plotted position for the substitute station falls approximately 0.4 mm to the NE of the plotted position. Since there are numerous other field or office identified control stations in the vicinity, it is not essential for a rigid radial plot.

FAG, 1929 - The radially plotted position for the direct identification for this station falls approximately 4.4 mm to the SE of the plotted position. The nine-lens photographs verified the fact that the field man pricked some floating debris instead of the rock. This station was office identified and held in plot.

THAT, 1927 - The radially plotted position for this substitute station falls approximately 0.8 mm to the WSW of the plotted position. Both the station and substitute station was misidentified. The station was office identified and held in the plot.

FOX, 1929 - The radially plotted position for this substitute station falls approximately 1.0 mm to the east of the plotted position. There is another detached rock west of the identified point approximately the same place as the plotted position. It is believed that this station is another case of misidentification.

BIB, 1954 - The radially plotted position for substitute station "A" falls approximately 3.9 mm to the east of the plotted position. This is a case of misidentification.

The radially plotted position for substitute station "B" falls approximately 1.2 mm to the east of the plotted position. The field distance to this station is in error.

DELHI, 1915 - The radially plotted position for substitute station "A" falls approximately 2.1 mm to the NW of the plotted position. The field distance for this station is in error.

The radially plotted position for substitute station "B" falls approximately 2.5 mm SSW of the plotted position. This station was misidentified.

With the aid of the description, the triangulation station was office identified and held in the plot.

GAL, 1954 - The radially plotted position for substitute station "A" falls approximately 7.3 mm to the south of the plotted position. The field distance to this station is in error.

The radially plotted position for substitute station "B" falls approximately 8.0 mm SSE of the plotted position. This is another case of error made in the distance to this station.

The triangulation station was office identified and held in the plot.

CON, 1927 - The radially plotted position for this substitute station falls approximately 0.9 mm to the NNE of the plotted position. This station appears to be misidentified.

The triangulation was office identified and held in the plot.

24. SUPPLEMENTAL DATA

None.

25. PHOTOGRAPHY

The majority of these photographs were taken late in the afternoon of one day while the rest were taken early in the morning of the following day. Due to the time the photographs were taken, large sections of the shoreline appears in deep shadow. These shadow areas created problems in trying to find common pass points. In many cases, due to deep shadow, good points on the nine-lens photographs were obscured on the single lens photographs.

In the area around Boulder Point, one photograph, 55-W-9700, had a very light washed-out area right in the vicinity of identified control station BOULDER, 1915. This created several problems in trying to use photographs 55-W-9612 and 9613. These photographs were taken the previous day, and time, tide, and shadow were different.

26. CONTROL IDENTIFICATION

Considerable difficulty was encountered while pricking field identified control throughout this project. It was noted that the distances between field identified image points of substitute stations disagreed with distances between computed positions. To aid in selecting the correct image points, a piece of clear vinylite to which the positions of stations and substitute stations were transferred was placed over one photograph when a pair was studied stereoscopically. Then, with the aid of sketch and description on identification card and with the original station description, the correct images of the substitute points were determined. The identification of many stations was changed from field identification where discrepancies were found.

Numerous stations in this project had distances to substitute points given in meters (by stadia). Most of these distances appeared to be in error, but the reason could not be determined. There was no factor that could be applied to correct the errors. On Strait Island, only two of the six identified stations could be held. The others appeared to be in error due to trouble with stadia distances.

One good example of identification difficulties was at BOULDER, 1915. Sutstitute Point "A" was used because it was the only point which seemed to agree with distances, sketch, and photograph. At Sub. Pt. "B", the position seems to check the easterly point of large rock - instead of the westerly point, as described. At Sub. Pt. "C" the position falls in the water indicating a distance error, probably due to stadia error. The approximate location of the station could be determined from the description for use in selecting the correctly identified sub. pt. Due to centers of several photographs falling water areas, a rigid plot to eliminate the errors in identification could not be obtained and Sub. Pt. "A" was used to control the plot.

Another example of control misidentification was at POH, 1929. The rock selected was actually in deep shadow and not visible so a wrong rock was identified on photograph 55-W-9589 which was taken in late afternoon. Photograph 55-W-9700 taken in morning of next day also covers the area and, if used, no error in identification would have been made.

Another example is at ROSE, 1937. The distance between two substitute points is short. Sub. Pt. "A" is a boulder or beach at edge of shadow. Sub. Pt. "B" is a prominent, high outcrop. Both appear to be good positive points. The error may be in either Sub. Pt. "A", which could be in shadow or in position for Sub. Pt. "B" which is a long distance from the station and a small error in azimuth could account for the error. Sub. Pt. "A" was held in the radial plot, but the identification should be verified since it is the last station in the plot at the head of Port Beauclerc.

27. POSITION ERROR

The published position for triangulation station SEC, 1929 places it in the water, in Port Beauclerc, off Edwards Island. The description of the station on page 17 of cahier Alaska No. 41, places the station "about 2 miles south of Boulder Point on the west shore of Summer Strait. The approximate position for this station should be 56° 17.4 N and 133° 51.1 W. Also see Recovery Note, Form 526.

The published position for triangulation station PEAK 16, 1922 places it in forty-five (45) fathoms of water, in Chatham Strait, east of Cape Decision.

Respectfully submitted

Terry J. Z

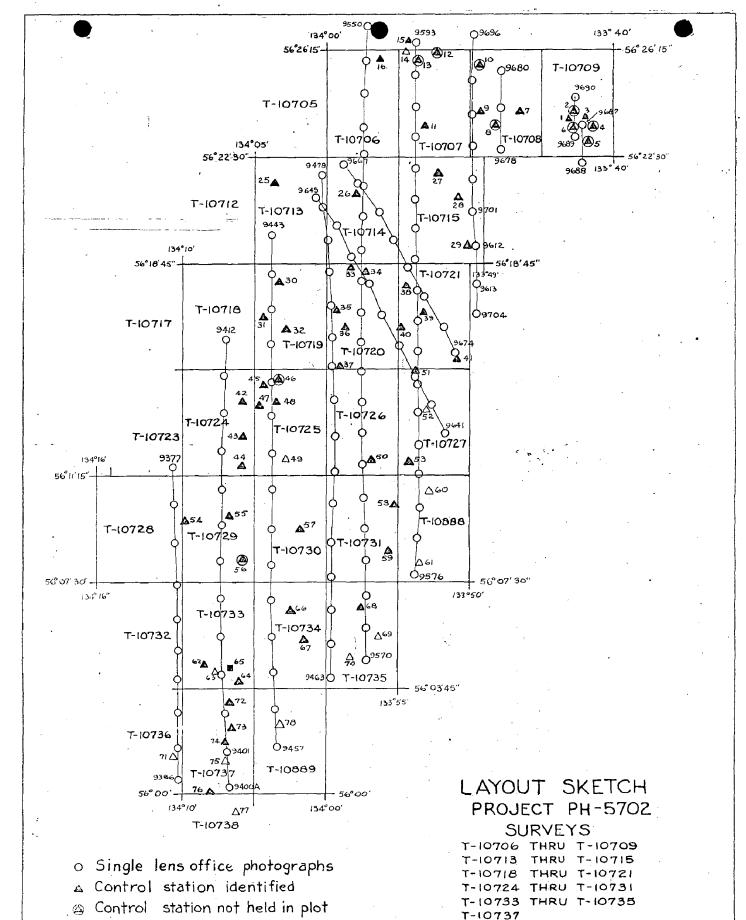
10 June 1960

Leroy A. Senasack Carto. (Photo.)

LIST OF NUMBERED CONTROL STATIONS PH - 5702

•		•
1. AGO, 1954	27. POM, 1929	53. RUTH, 1937
2. CON,1927	28. TURN, 1929	54. VICK, 1937
3. HOW, 1954	29. BOULDER, 1915	55. HOPE, 1936
4. GAL, 1954	30. TRUS, 1937	56. BUSH, 1936
5. DELHI, 1915	31. EDNA, 1937	57. DUB. 1936
6. BIB, 1954	32. WEAK, 1937	58. MILT, 1937
7. REEF 2, 1915	33. FLOR, 1937	59. MACK, 1937
8. FOX, 1929	34. GOOD, 1937	60. НОСМ, 1937
9. NER, 1929	35. PEGG, 1937	61. CLEVE, 1886-1922
10. THAT, 1927	36. GENE, 1937	62. ARTHUR, 1936
11. BAY, 1929	37. CORK, 1937	63. LEMON, 1936
12. FAG, 1929	38. WESS, 1937	64. NORTH, 1936
13. RUT, 1929	39. MON, 1929	65. LEMON POINT ROCK LIGHT, 1958
14. PAR, 1929	40. SUN, 1929	66. STAR, 1936
15. DAL, 1929	41. BEAUCLERC 2 (LIGHT), 1922	67. AFFLECK, 1936
16. UP, 1929	42. BEAR, 1936	68. JUNE, 1937
* 17. TWIN, 1926	43. BITE, 1936	69. BETS, 1937
* 18. BARE, 1926	Щ. ALECK, 1936	70. ALBANS, 1886
* 19. ARM, 1926	45. BUDD, 1937	71. MAC, 1899
* 20. MID, 1926	46. номе. 1937	72. MAC, 1936
* 21, ROCK, 1926	47. PEN, 1936	73. SHORE, 1923
* 22. WON, 1925	48. ENTER, 1936	74. MIDDY, 1936
* 23, GO 2, 1958	49. шмл, 1936	75, ZAG, 1923
* 24. TRI, 1926	50. ADEN, 1937	76. CAPE DECISION LIGHT, 1936
25. LAST, 1926	51. SOW, 1929	77. SPANISH ISLAND LIGHT, 1936
26. ROSE, 1937	52°. PIN, 1915	78. WAY, 1936

^{*} On nine lens photo's only



Control station office identified

Recoverable topo with field position

T-10888 AND T-10889

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

FOŘM **164** (4.23-54)

PROJECT NO. PH-5702

MAP T. 10709

CONTROL RECORD

COAST AND GEODETIC SURVEY

SCALE FACTOR

1:10,000

SCALE OF MAP.....

N.A. 1927 - DATUM

DATUM

OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET,

LONGITUDE OR x-COORDINATE

41. 45.789"

1330

01.779"

23 t

569

N.A. 1927 Ħ

LATITUDE OR y-COORDINATE

DATUM

SOURCE OF

STATION

(INDEX)

(BACK)

FORWARD

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS

(BACK)

FORWARD

DISTANCE FROM GAID OR PROJECTION LINE IN METERS (BACK) 1057.2 (798.6) 432.0 (597.3) (1015.6)1573.1 (282.7) 365.3 (1490.5) (1509.5)(1800.8 4.471) (353.23) (243.9) (1810.6)885.0 (144.5) (177.4) 891.6 (137.6) (370.2)(58.0) FORWARD 1681.4 840.2 659.2 971.2 6.579 852.1 785.7 346.3 45.3 55.0

> 27.164" 38.423"

231

56**º**

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Alaska III Pg.935

BIB,1954

424

1330

Pg.369

CON,1927

1330 421

34.18" 25.181 50.86"

23.1

569

=

Alaska III Pg.936

GAL,1954

17

1339

01.463" 39.409"

56

=

6-413

51:.98 "

42, 77.

133°

54.36"

231

Alaska III

Pg.204 609-0

DELHI, 1915

Pg. 937

AGO,1954

	21	NNINGHAM DATE 11/6/59 CHECKED BY B.WILSON DATE 11/6/59
		COMPUTED BY: M. CUNNI NGHAM

231 11.197"

560

=

Alaska III

Pg. 934

STRAIT, 1954

Pg.213

LIGHTHOUSE, 1915 STRAIT ISLAND

609-5

ном, 1954

1330 411 51.577"

133° 411 49.661"

11.810"

231

56°

56.62"

1330

23.

560

Alaska III Pg.937

FORM 164 (4-23-54)

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY CONTROL RECORD

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS (BACK) FORWARD SCALE FACTOR DISTANCE FROM GR.D OR PROJECTION LINE IN METERS (BACK) N.A. 1927 - DATUM FORWARD DATUM SCALE OF MAP 1:10,000 OR PROJECTION LINE IN METERS DISTÂNCE FROM GRID IN FEET. (BACK) FORWARD LONGITUDE OR x-COORDINATE LATITUDE OR y.COORDINATE PROJECT NO. PH-5702 6,250,953,72 579,350.81 580,503.12 580,516.79 6,249,406.01 580,420.07 6,249,332,33 6,251,177,35 6,251,125,64 579,475.81 579,599.35 6,250,105.50 579,607.29 579,703.93 6,250,357.94 580,851,19 6,250,117,31 **6,**249,349.54 N.A. 1927 DATUM Ħ ± = = Ħ = = = E SOURCE OF INFORMATION Comp. Comp. Comp. Comp. Comp. Comp. **Р**а**g**е 23 Ра*в*е 24 (INDEX) = = MAP T-..10709 ц¥н SUB PT. "A" DELHI,1915 SUB PT. "B" DELHI,1915 DELHI, 1915 STATION SUB PT. CON,1927 SUB **P**T. *
BIB,1954 AG. 0,1954 ВІВ, 1954 SUB PT. BIB, 1954 GAL,1954 CON,1927

10/6/20 DATE. COMPUTED BY M. CUNNI NGHAM

6,250,261.43 5808860.90 6,250,205.85 580,875.38

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SUB PT. "A" GAL,1954

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=

SUB PT. GAL, 1954

CHECKED BY...

B.WILSON

DATE 10/26/59

COMM- DC- 57843

2 2

COMPILATION REPORT

Surveys T-10706, T-10707, T-10708, & T-10709

FIELD REPORT:

The field inspection report for the area of surveys T-10706 and T-10707 is part of the descriptive report for surveys T-10726 and T-10727.

PHOTOGRAMMETRIC PLOT REPORT:

The photogrammetric plot report is part of the descriptive report for surveys T-10726 and T-10727.

31. DELINEATION:

These manuscripts were delineated by graphic methods.

No field edit report by the 1962 field party was furnished the compilation office.

32. CONTROL:

Horizontal control was adequate.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours: Not applicable.
Drainage: No comment.

35. SHORELINE AND ALONGSHORE DETAILS:

All delineation was based on office interpretation of the photographs and some field inspection in the vicinity of control stations.

Interpretation of the mean high water line was difficult in many areas where shadows and overhanging trees obscured the shoreline. A dashed line was delineated in these areas.

Field edit data obtained during the 1962 season was applied to the manuscript in the area of Reid Bay.

36. OFFSHORE DETAILS:

No comment.

37. LANDMARKS AND ALDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junction has been made and is in agreement with T-10715 to the south. There are no details to be joined to the west with T-10705 and to the south with T-10714. There are no contemporary surveys to the north.

40. HORIZONTAL ACCURACY:

No comment.

41 thru 45:

Inapplicable.

46. COMPARISON WITH EXISTING MAPS:

U.S.G.S. Petersburg, Alaska - Canada, scale 1:250,000, 1952.

47. COMPARISON WITH NAUTICAL CHARTS:

Chart 8201, scale 1:217,828, 10th edition, published 17 July 1961

Items to be applied to nautical charts immediately: None. Items to be carried forward: None.

Respectfully submitted 3 May 1963

Joseph W. Vonasek Super. Carto.

Approved and forwarded

Miller J. Tonkel
 CDR, C&GS
 Baltimore District Officer

SUPPLEMENTAL COMPILATION REPORT

T-10706 thru T-10709

Project 21016

As stated under item 35 of the Compilation Report, interpretation of the mean high-water line was difficult in areas where shadows and overhanging trees obscured the shoreline. A dashed, indefinite shoreline was originally delineated in these areas.

When additional nine-lens photography covering the northern portion of these surveys and the project to the north (21048, Ph-6206) became available, it was then possible to reinterpret these indefinite areas. The original single-lens photographs were used in conjunction with the nine-lens photography of July, 1961.

This work was accomplished in December, 1963 upon the completion of the radial plot for the project to the north which established the locations of several nine-lens centers in the area of these surveys.

Respectfully submitted,

Caymond Hazer

Raymond Glaser Carto. (Photo.)

October 26, 1971

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-5702 (Alaska)

T-10709

Mariposa Reef

Strait Island

Summer Strait

Approved by:

A. Joseph Wraight Chief Geographer Prepared by:

Frank W. Pickett Cartographic Technician

NOTES FOR THE HYDROGRAPHER Summer Strait

(Summer Island and Alvin Bay to Fort Beauclerc)
Surveys T-10706 through T-10709,
T-1071h, T-10715,
T-10720 and T-10721

These surveys were delineated by office interpretation of the photographs. In Summer Strait, photographs were taken at a low stage of tide and MHW line should be carefully verified. In Fort Beauclerc, photography was at both high and low stages of tide on two different days. However, the steep slopes caused deep shadows over much of the shoreline. Ninelens photographs, scale 1:20,000, taken at stage of tide just above MLLW, were used to supplement single lens photography in interpretation of ledge areas, approximate low water line and rocks awash, using a reflecting projector to correct for scale difference.

A dashed line was used to indicate areas of kelp, and those which are foul or possibly foul.

In areas of deep shadow, the MHW line was shown with a dashed line (approximate MHW) and should be verified, particularly south shores of Alvin Bay and Fort Beauclerc.

Verify, or correct, extent of ledges and character of foreshore (shown as gravel, ledge, boulders, etc.).

Indicate the extent of any bluffs of importance for charting.

Inspect and give elevations of offshore rocks and rocks whose elevations are of importance for navigation.

Investigate character of two objects marked "ruins" at Lat. 56° 18.8', Long. 133° 59.3' (T-10714). These objects show well on photographs 55-W-9475 and 9647.

Verify existence of what appears to be a pier in cove at Lat. 56° 18.2', Long. 133° 54.0' (T-10721).

There was considerable difficulty with control identification on Strait Island (T-10709). Field positions of substitute points were obviously in error at GAL, 1954 and BIB, 1954; probably due to use of stadia for distances. Only two of six stations could be held as field identified and located, requiring much office study and interpretation to get a satisfactory radial plot. The accuracy of the plot should be checked, particularly at the two stations mentioned. Also verify the existence of Strait Island Lighthouse (abandoned).

Definition of photography was poor at BEAUCLERC LIGHT, 1915. Verify the accuracy of radial plot at the light or at ISLE, 1929.

USC&GSS PATTON J. K. RICHARDS, COMDG.

FIELD EDIT REPORT Sumner Strait, S. E. Alaska Project OPR 448 (PH 5702) 1965 Field Season

Manuscripts T-10706 thru T-10709

MANUSCRIPT T-10706:

No corrections are necessary.

MANUSCRIPT T-10707:

Office interpretation of the mean high water line was quite good, considering the rather low quality of the photographs used in this area. The eastern shore of Kuiu Island and the southern shore of Alvin Bay were hidden in shadows, making delineation of the high water line more difficult. In most areas the treeline may be considered to extend to the high water line. There were several areas where the high water line was offshore from the treeline; these distances were measured and recorded. All corrections were noted on the ozalid print and on photographs Nos. 9591, 9592, and 9697.

Delineation and classification of features below the mean high water line required some revision. This is especially true in shaded areas where it was difficult to see the foreshore area. All corrections were noted as above. There were several rocks that were bare above the mean high watch line but were not delineated on the manuscript. Along the north shore of Alvin Bay, several rock ledges were found that were not delineated on the manuscript.

Location of all offshore rocks was verified by sextant fixes and their heights determined. This information is part of the hydrographic records for sheets HO-10-2-62 and PA-10-3-65.

MANUSCRIPT T-10708:

Considering the rather low quality of the photographs used in compilation, the office interpretation of the mean high water line was satisfactory. The western shore of Sumner Island was in shadows, making delineation of this area difficult. In general, office delineation of the high water line followed the treeline, which was erroneous in several areas where the high water line was offshore from the treeline. These areas were sketched on the photographs and cross-referenced on an ozalid print of the mamuscript. Corrections were shown on photographs Nos. 9679, 9680, 9697, and 9698.

Alongshore and offshore features were accurately delineated with several minor exceptions. Several rocks were delineated correctly, but they were not shown to be above the high water line, as they actually were. The areas above the high water line were drawn on the photographs and noted on the ozalid print. There were several rocks shown on the manuscript at the north end of Sumner Island for which a thorough search was made at low water, but these rocks were not found. These are noted on the ozalid print only.

All offshore rocks were located by sextant fixes and their heights determined. This information is part of the hydrographic redords for sheets HO-10-2-62, PA-10-1-65, and PA-10-3-65.

MANUSCRIPT T-10709:

Office interpretation of the mean high water line was excellent. There was only one area where revision was made to extend the shore-line beyond the office delineation. This extension of the high water line was drawn on photograph No. 9689 and noted on an ozalid print.

Several areas shown as rock ledges on the manuscript were found to be gravel areas. These were noted as above. Several rocks were found to be above the mean high water line. The area above the high water line was drawn on the photograph and noted on the ozalid print. A rock shown on the manuscript off the northwest side of Strait Island was thoroughly searched for, but no rock was found in this area. Other offshore rocks were verified by sextant fixes and their heights determined; this information is part of the hydrographic records for sheet PA-10-1-65.

N. A. H. Neal A. Horst LTJG, USESSA

Approved and forwarded.

James K. Richards LCDR, USESSA

C. O. Ship PATTON

REVIEW REPORT T-10709

SHORELINE

January 6, 1972

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print, pages 31 through 32, showing differences noted in Items 62 and 64, is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with Survey No. 4330, scale 1:20,000, dated Sept. 1 - Oct. 15, 1927. Differences between this map and T-10708 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 PETERSBURG (B-6), ALASKA, scale 1:63,360, dated 1948. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a verified copy of Survey H-8861, scale 1:10,000, dated 1961. Differences between this survey and T-10709 are shown in purple on the comparison print.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 8201, scale 1:217,828, 16th edition, dated Nov. 7, 1970. Nossignificant differences were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

It is believed that this survey is sufficiently accurate for photo-hydro support and nautical chart construction purposes.

Please see Photogrammetric Plot Report, Scale 1:20,000, dated June 9, 1960 and Photogrammetric Plot Report, Scale 1:10,000, dated June 10, 1960, neither of which state whether the accuracy of these radial plots meets the National Standards of Map Accuracy.

Reviewed by:

Charles H. Bishop

Charles HBishop

Cartographer January 6, 1972

Approved for forwarding:

Melvin J. Mmbach, CDR, NOAA

Chief, PhotogrammetrycDivision, AMC

Approved:

Alfred C. Holmes, RADM, NOAA

Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branchy Chief, Coastal Mapping Division

