10721

FORM C&GS-504

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

DESCRIPTIVE REPORT

Type of Survey SHORELINE				
	Office No. T=10721			
	LOCALITY			
State	ALASKA			
General locality	KUIU ISLAND - SUMNER STRAIT			
	BEAUCLERC ISLAND			
	1955-62			
CHIEF OF PARTY J. E. Waugh, Chief of Field Party J. Steinberg, Acting, Baltimore Photo Offic Alfred C. Holmes, Director, A. M. C.				
LIBRARY & ARCHIVES				
DATE				

FORM	C&GS-	18 1 a

DESCRIPTIVE REP	ORT - DATA	A RECORD	1
ЫЕСТ NO. (II) :			
PH-5702			
FIELD OFFICE (II)		CHIEF OF PARTY	·
SHIP HODGSON			J. E. Waugh
PHOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHAI	RGE (acting)
Baltimore			J. Steinberg
INSTRUCTIONS DATED (II) (III):		<u> </u>	<u> </u>
October 2 9, 1957 Project November 27, 1957 22/MEK, November 20, 1957 Office September 11, 1959 Office	Diagram S-2-HO		·
METHOD OF COMPILATION (III):			
Graphic			
MANUSCRIPT SCALE (III):	STEREOSCO	OPIC PLOTTING INS	TRUMENT SCALE (III):
1:10,000			
ONTE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPO	ORTED TO NAUTICA	AL CHART BRANCH (IV):
APPLIED TO CHART NO.	DATE:		DATE REGISTERED (IV):
	<u> </u>		
GEOGRAPHIC DATUM (III):		VERTICAL DATU	M (III): M. H. W.
		J	as (25) refer to mean high water
N. A. 1927		ſ	as (5) refer to sounding datum
		i.e., meen low wat	er or meen lower low water
REFERENCE STATION (III):			
sun 1929			
LAT.: LONG.:		T	
56° 16' 26.951" (833.6 M) 133° 54' 47.919"	(824.6 m	X ADJUSTED WAGJUSTED	
PLANE COORDINATES (IV):		STATE	ZONE
Y = 6,236,910.00 m. X = 567,294.80 m		Alaska	um 8
MAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTE	RED BY (II) F	FIELD PARTY. (III)	PHOTOGRAMMETRIC OFFICE

FIELD INSPECTION BY (II):

DATE:

DESCRIPTIVE REPORT - DATA RECORD

T-10721

2

G. L. Short, H. H. Druebert,	April-May 1958
R. D. Bernard & R. E. Alderman	SeptOct 1958
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF	f LOCATION):
Office interpretation of 1955	nhotogranha
supplemented by field edit in	
	•
PROJECTION AND GRIDS RULED BY (IV):	DATE
P. J. Dempsey	11-02-59
PROJECTION AND GRIDS CHECKED BY (IV):	DATE
P. J. Dempsey	11-92-59
CONTROL PLOTTED BY (III):	DATE
B. Wilson	11-12-59
 	
CONTROL CHECKED BY (III):	DATE .
H. R. Rudolph	11-20-59
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):	DATE
L. A. Senasack	6_10_60
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY	DATE
Not appliable CONTOURS	DATE
Not applicable CONTOURS	DATE
	•
MANUSCRIPT DELINEATED BY (III):	DATE
B. Wilson	7–18–60
EXPRESENCE (III):	DATE
Bield edit corrections applied by: J. S.	Cregan 9-18-62
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. Gla	
Field edit reviewed by: H. R.	Rudolph 9-19-62
	1

DESCRIPTIVE REPORT - DATA RECORD

T-10721

ERA (KIND OR SOURCE) (511):

Wild RC-8 "W"

	PH	OTOGRAPHS (III)			
NUMBER	DATE	TIME	SCALE	STAGE OF	TIDE
55 W 9583 thru 9585 55 W 9644 55 W 9671 thru 9674	21 Sept 55 22 Sept 55 22 Sept 55	15:28 09:35 09:56	1:25,000	11.1 ft. abo 4.4 ft. t 4.1 ft.	n
		TIDE (III)	Predicted	<u> </u>	diurn

	TIDE (III)]	Predicted			diurna
			RATIO OF RANGES	MEAN RANGE	RANGE
REFERENCE STATION: SITKA, ALASKA				7.7	9.9
SUBORDINATE STATION: Port Beauclerc				10.0	12,2
SUBORDINATE STATION:					
Atlantic Marine Center	C. I	I. Bishop	DATE:	Jan. 19	72
PROOF EDIT BY (IV):			DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	9	RECOVERED: 8	IDENTIFIE	:0:	4
NUMBER OF BM(S) SEARCHED FOR (II):	None	RECOVERED:	IDENTIFIE	D	
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED ((III): None)	!		

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:

T-10721

COMPILATION RECORD	COMPLETION DATE	REMARKS
Copy for blueline	Feb. 1962	Superseded
Field edit applied	Sept. 1962	
Final review ,	Jan. 1972	

•	and the EM	HOREL	INE	MAPPING	PROJECT
	Evolution of Constant of Const	7	Ph	-5702	
	· Control of the second			NATION U ISLAN ALASKA	
•			uf:'icia	d Alleage For	Cost Accounts
	KUIU /	THE STATE OF THE S	Sheet No.	Area Sq. Mi	
CHATHA STRAIT	1SLAND 134°20'00" 10702 10.004 18 105 10706 10707 10 10716 10717 10712 10713 10714 10715 10716 10727 10723 10724 10725 10.006 10.027 10728 10729 10729 10730 10734 10735 10.000 10736 10.032 10.736	27.08 10 × 27.08 × 27.	10676 10676 10676 10676 10676 10676 10680 10680 10706 10706 10706 10707 10716 10716 10716 10716 10716 10726 10726 10726 10726 10726 10726 10726 10726 10726 10726 10726 10726 10736 10736 10736 10736 10736 10736 10736 10736	86318206944215149389424181306500934161	1.17.057.658.967.4087.66.58.1.1.0.1.553.1.2.735.59.36.2.47.46.8.8.1.2.79.36.7.98.6.51.6.18.8.1.3.0.74.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.

SUMMARY

DESCRIPTIVE REPORT T-10721

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. Only 33 maps were compiled. T-10721 includes Beauclerc Island at the entrance to Port Beauclerc.

Compilation was by radial plot. A 1:20,000 scale plot using 9-lens photography of 1958, was constructed to verify identified control and to establish pass points to control a 1:10,000 plot using 1:10,000 scale ratio prints of singlelens photographs 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 9 June 1960 and Photogrammetric Plot Report, scale 1:10,000, dated 10 June 1960.

Field edit was performed in 1962. No field edit report was available at the time of final review. 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 POINT ST. ALBANS TO ALVIN BAY 1958 FIELD SEASON

Manuscript No. T-10706, T-10707, T-10714 T-10715, T-10720, T-10721 T-10726, T-10727, T-10730 T-10731, T-10734, T-10735

2. AREAL FIELD INSPECTION

The area covered by this report includes the eastern side of Kuiu Island from Alvin Bay south to and including Point St. Albans.

The field inspection was confined to the areas in the immediate vicinity of the control stations.

The shoreline in this area is very irregular with many small bights and off-lying rocks. The foreshore consists generally of rock and boulder strewn beaches with rock ledges occuring on most points. The area is covered with a dense growth of conifers which usually extend inland from the HWL.

The rock outcroppings in this area are in general metamorphic limestone with igneous intrusions.

Densities and tones were not inspected on the land area. 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. The contact prints were furnished for field use. The definition on the prints was generally good, however, identification was difficult in some areas due to shadows caused by trees and terrain. The compiler may have difficulty in interpreting the MHWL in some areas due to overhanging trees and shadows.

3. HORIZONTAL CONTROL

All horizontal control stations for this area as indicated on the project diagram were searched for with the exception of BEULEK 1938 and UPPER 1938. BEULEK and UPPER are on mountain peaks and were impracticable to recover. Recovery of triangulation stations ALL 1927 and CLEW 1927 was not attempted since they fell north of the project limits and were not needed. Recovery notes were submitted on form 526 for all stations that were searched for.

It is recommended that three triangulation stations be considered lost:

EEG 1929 END 1929 CLERC 1915 No description was available for CLERC 1915 although a search was made in the immediate vicinity of its geographic position.

The published geographic position (unchecked) for station SEC 1929 is in error. A new position will be determined for this station when work resumes in the area.

All stations were positively identified with the exception of GENE 1937. It's identification was classified as doubtful on the Cont rol Identification Card.

After the receipt of the Director's letters dated 6-6-58 and 6-25-58; 711-lmh; additional work was accomplished in the Priority A area, except for Tebenkof Bay. All stations were positively identified by the selection of two substitute points, where possible.

Sixteen control stations in priority area A on the west side of Kuiu Island, southeast end of Tebenkof Bay, were searched for of which 9 were positively identified on photographs. Control identification cards for these nine stations and all photos on the diagonal flights are included as instructed in the note found on the project diagram.

4. VERTICAL CONTROL

Inapplicable

5. CONTOURS AND DRAINAGE

Contours - inapplicable

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

6. WOODLAND COVER

The area is heavily wooded being covered with conifers, mostly spruce with some cedar. The trees extend inland from the HML.

7. SHORELINE AND ALONGSHORE FEATURES

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

The only cultural features in the area are two trappers cabins used during the trapping season. One is on the eastern shore of Reid Bay and the other on the eastern shore of Port Beauclerc. Neither is identifiable on any of the photographs. The remains of an aban-

doned cannery also exist on the west shore of Port Beauclere, north-west of Edwards Island. There are no structures remaining.

8. OFFSHORE FEATURES

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

9. LANDMARKS AND AIDS

There is one fixed aid to navigation in the area. It is:

Beauclero Island Light

The several floating aids to navigation in the area will be located at the time of hydrography.

10. BOUNDARIES FITC.

Inapplicable

11. OTHER CONTROL

Nons

12. OTHER INTERIOR FEATURES

Inapplicable

13. GEOGRAPHIC NAMES

Will be covered in a special report.

14. SPECIAL REPORT AND DATA

1. Photogrammetric Field Data

Disposition Washington Office with this report

15 - 20 NOT USED

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 Pay, 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.

24. 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

Troy A. Gerasack

Leroy A. Senasack (Carto. (Photo.)

```
AGO, 1954
CON, 1927
  2
  3
        HOW, 1954
  Ц
        GAL, 1954
  5
        DELHI, 1915
  6
        BIB, 1954 ·
        REEF 2, 1915
  7
  8
        FOX, 1929
 . 9
        NER, 1929
        THAT, 1927
 10
 11
        BAY, 1929
       FAG, 1929
RUT, 1929
PAR, 1929
 12
 13
 14
 15
        DAL, 1929
        UP, 1929
 16
*17
        TWIN, 1926
*18
        BARE, 1926
        ARM, 1926
MID, 1926
*19
*20
*21
        ROCK, 1926
       WON, 1925
GO 2, 1958
≭22
*23
*24
        TRI, 1926
 25
        LAST, 1926
 26
        ROSE, 1937
27
        POM, 1929
       TURN, 1929
 28
 29
       BOULDER, 1915
 30
        TRUS, 1937
 31
        EDNA, 1937
       WEAK, 1937
 32
33
        FLOR, 1937
34
       GOOD, 1937
35
       PEGG, 1937
36
       GENE, 1937
       CORK, 1937
WESS, 1937
 37
38
       MON, 1929
39
40
       SUN, 1929 .
41
       BEAUCLERC 2 (LIGHT), 1922
42
       BEAR, 1936
43
       BITE, 1936
44
       ALECK, 1936
45
       BUDD, 1937
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^{*} On nine-lens photographs only.

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HOME, 1937
PEN, 1936
46
47
48
       ENTER, 1936
49
       HIND, 1936
50
       ADEN, 1937.
51
52
53
54
       SOW, 1929
PIN, 1915
       RUTH, 1937
       VICK, 1937
HOPE, 1936
56
57
58
59
       BUSH, 1936
       DUB, 1936
MILT, 1937
       MACK, 1937
HOLM, 1937
60
61
       CLEVE, 1886-1922
62
       ARTHUR, 1936
63
       LEMON, 1936
64
       NORTH, 1936
       LEMON POINT ROCK LIGHT, 1958
65
66
       STAR, 1936
67
       AFFLECK, 1936
68
       JUNE, 1937
69
       BETS, 1937
       ALBANS, 1886
70
       MAC, 1899
71
72
       MAC, 1936
73
       SHORE, 1923
MIDDY, 1936
74
75
       ZAG, 1923
76
       CAPEDECISION LIGHT, 1936
77
       SPANISH ISLAND LIGHT, 1936
78
       WAY, 1936
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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**-1**0737

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 Sumner Strait, embracing the areas known as Alvin Bay, Reid Bay, Port Beauclerc, Louise Cove, Bear Harbor, Kell Bay, Affleck Canal and Fort 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 a	and 9	613
9400A. "	9412	9667 1	thru !	9674
9443 "	9457	9678	Ħ (9680
9463 #	9478	9687	n	9690
9550 "	9570	9 696	19	9701
9576 "	9593	9704		
9641 "	9649			

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 instrument.

The radial plot was constructed directly on the map manuscripts.

This plot was laid in two parts, with the surveys Nos. T-1072h 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.

DEIHI, 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 POM, 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 Sumner 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

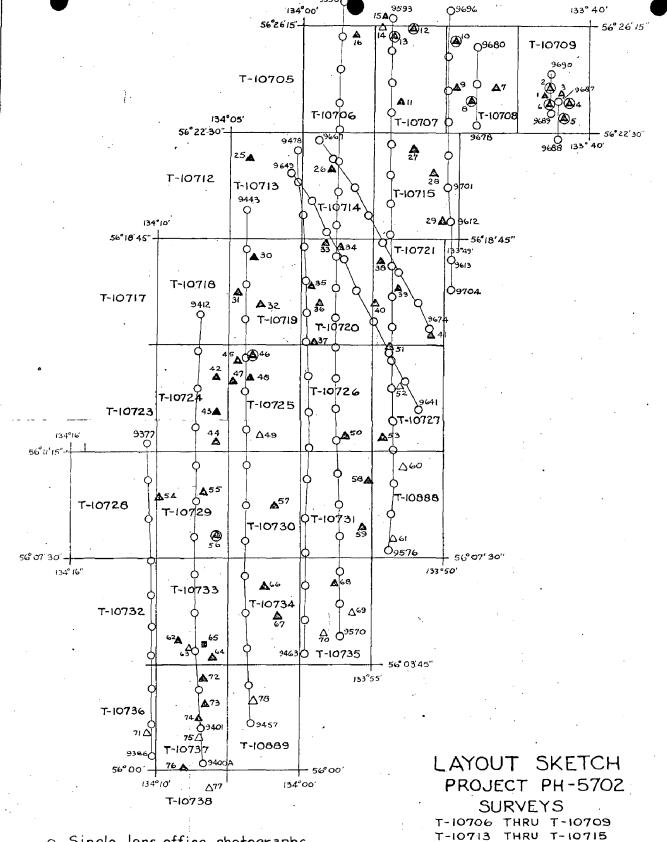
10 June 1960

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. HOLM, 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	L1. 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. HOME, 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. нгид, 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



- o Single lens office photographs
- a Control station identified
- Control station not held in plot
- Control station office identified
- Recoverable topo with field position

THRU T-10721 10718

10724 THRU T-10731

T-10733 THRU T-10735

T-10737

T-10888 AND T-10889

FORM **164** (4-23-54)

U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

AST AND GEODETIC SURVEY

COMM- DC- 57843 2 1 FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD 11/4/20 SCALE FACTOR DISTANCE FROM GA,D OR PROJECTION LINE IN METERS 1335.5 (520.3) (1022.2)(1753.4(1525.3)824.6 (207.9) (749.2)290,3 (7/12,5) 969.3 (886.5) N.A. 1927 - DATUM (867.0) (985.1) (984.5 (511.1 (509.5 (868.6 DATE FORWARD 523.0 870.7 833.6 166.0 283.1 164.3 871.3 102.4 330.5 520.7 DATUM CORRECTION 1:10,000 B.WILSON OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET, (BACK) SCALE OF MAP. CHECKED BY FORWARD 28.152" 30.278" 28.171" 51, 09.642" 03.311" 16.456" 10.684" 26.951" 47.919" 43.177" 31.337" 30.390" 511 16.866" LONGITUDE OR x-COORDINATE LATITUDE OR y-COORDINATE PH-5702 10/50/29 171 531 151 181 151 161 54. 161 것 52 52 12 560 133° 133 133° 1330 560 133° 560 1330 560 133° 560 560 PROJECT NO. DATE DATUM N . A . 1927 = t \$ = = SOURCE OF Pg.768 Pg.538 Pg.768 G-503 Pg-538 COMPUTED BY, M. CUNNINGHAM Pg.310 G-3581 Pg.768 BEAUCLERC LIGHTALBERA 1915Pg.933 6-3581 G-3581 609-5 G-503 (INDEX) MAP T. 10721 (LIGHT), 1929 1929 1937 ECCENTRIC, STATION BEAUCI, ERC MON, 1929 1929 NOR, 1929 WESS, ISLE, SUN,

FORM 164 (4-23-54)

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

CONTROL RECORD

PAST AND GEODETIC SURVEY

1:10,000

SCALE OF MAP.

PH-5702

PROJECT NO.

MAP T. 10721

SCALE FACTOR

COMM- DC- 57843 FROM GAID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS (BACK) FORWARD (BACK) N.A. 1927 - DATUM FORWARD DATUM OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET, (BACK) FORWARD LONGITUDE OR x-COORDINATE LATITUDE OR #-COORDINATE 571,081.29 568,860.30 6,238,052.39 568,862.92 6,240,119.48 567,546.83 6,236,910.00 567,294.80 6,235,615.53 6,237,083.57 6,235,153.13 6,235,153.69 571,079.63 6,238,059.20 568,849.90 6,238,041.41 6,240,121.77 567,542.41 6,240,191,28 567,520.07 570.947.61 569,658.21 DATUM 1927 N.A. = = = = E = = = = SOURCE OF INFORMATION (INDEX) COMPUTED BY: M. CUNNINGHAM Comp. Comp. **Page** 10 **Р**вде ,26 P**rage** 26 Comp. Comp. Page 9 Page 9 Page **Р**аве 10 σ 6 BEAULERC 2 (LIGHT), 1922 SUB PT. "B" MON, 1929 SUB PT. "A" WESS, 1937 SUB PT. "B" WESS, 1937. SUB PT. "A" WESS, 1937 ISLE, 1929 STATION MON, 1929 RECHAIN BERC ECCENTRIC NOR, 1929 MON, 1929 SUN, 1929

10/6/20 DATE

CHECKED BY B.WILSON

DATE....

11/3/28

COMPILATION REPORT

T-10720 and T-10721

31. DELINEATION:

These manuscripts were delineated by the graphic method.

The 1962 Field Edit Report was not furnished to the compilation office.

32. CONTROL:

The compiler found the horizontal control adequate. However, some difficulties were encountered in constructing the radial plot. See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours: Not applicable Drainage: No comment

35. SHORELINE AND ALONGSHORE DETAILS:

There was no shoreline field inspection except in the immediate vicinity of control stations; all delineation was based on office interpretation. Interpretation of the mean high water line was difficult in some areas due to overhanging trees and shadows. Where this occurred the shoreline was delineated with a dashed line.

Shoreline and alongshore details were corrected or verified by field edit during the 1962 season. One exception to this was a short section of dashed shoreline in the southwest corner of T-10721.

The approximate mean low water line, offshore limits of ledge, foul areas and rocks awash were delineated by office interpretation of the 1:20,000 scale nine-lens photographs which were enlarged to manuscript scale by use of the vertical projector. Field edit also corrected or verified these features.

36. OFFSHORE DETAILS:

No comment.

37. LANDMARKS AND AIDS:

T-10720: None

T-10721: Form 567 for Beauclerc Island Light is submitted

with this report.

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

Junction has been made and is in agreement between the subject surveys. In addition, junctions have been made and are in agreement between this unit and the following: T-10714 and T-10715 to the north, T-10719 to the west, and T-10726 and T-10727 to the south. There is an all water area to the east.

40. HORIZONTAL AND VERTICAL ACCURACY:

No comment.

41 through 45: Not used

46. COMPARISON WITH EXISTING MAPS:

U. S. G. S. Petersburg, Alaska-Canada Reconnaissance Topographic Series, Scale 1:250,000, published in 1952.

47. COMPARISON WITH NAUTICAL CHARTS:

Chart 8201, Scale 1:217,828, 10th edition, dated July 17, 1961.

Items to be applied to nautical charts immediately:
None

Items to be carried forward:
None

Respectfully submitted:

R. Glaser Carto (Photo) 9 October 1962

October 26, 1971

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-5702 (Alaska)

T-10721

Beauclerc Island

Kuiu Island

Port Beauclerc

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 Port Beauclerc) Surveys T-10705 through T-10709, T-10714, 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 Beauclere.

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 offshere rocks and rocks whose elevations are of importance for navigation.

Investigate character of two objects marked "rains" at Lat. 56° 18.8', Long. 133° 59.3' (T-10714). These objects show well on photographa 55-2-9475 and 9647.

Verify existence of what appears to be a pier in cove at Lat. 50° 18.21, Long. 133° 54.01 (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.

USCOMM-DC 16234-P61

C&GS FORM 567

U.S. DEPARTMENT OF COMMERCE COAST AND G

ETIC SURVEY

NONFLOATING AIDS CHOCKLANDINGERES FOR CHARTS

STRIKE OUT TWO TO BE CHARTED TOKKENBERNINGE

Baltimore, Maryland

J.Steinberg

October 5 , 19 62

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

Glaser The positions given have been checked after listing by

CHARTS Chief of Party. 8201 OPFRHORE CHART INTHOME CHART × Acting LOCATION 5-7-58 DATE METHOD OF COCATION AND BURVEY No. NA F-10721 1927 Triang -10721 DATUM 09.642 166.0 D. P. METERS LONGITUDE # 133 51 POSITION • 28,171 871,3 LATITUDE # • • 20 BIGNAL 1922 Beauclerc Island Light (Beauclerc 2, (Light) DESCRIPTION ALASKA CHARTING NAME 5 STATE

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

REVIEW REPORT T-10721

SHORELINE

January 17, 1972

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print, page 29, showing differences noted in Items 63 and 64, is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

There were no registered topographic surveys available for comparison at the time of final review.

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. Only one significant difference was noted -- a rock awash at lat. 56°18.1°, long. 133°51.6°. A kelp patch is visible on Photo 55 W 9703. No rock was located at this position by the hydrographer on Survey H-8653.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a copy of the smooth sheet for Survey H-8653, scale 1:10,000, dated 1961. No differences were noted between this survey and T-10721.

T-10721 was also compared with Survey H-8654, scale 1:10,000, dated 1962. Significant differences are noted 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 7 November 1970. No significant differences were noted between this chart and T-10721.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

It is believed that this survey is sufficiently accurate for photo-hydro support and mutical 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 H. Bishop Cartographer 17 January 1972

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

