

10889

10889

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-10889
LOCALITY	
State	ALASKA
General locality	KUIU ISLAND - SUMNER STRAIT
Locality	FAIRWAY ISLAND
1955	
CHIEF OF PARTY J. E. Waugh, Chief of Field Party M. J. Tonkel, Baltimore Photo Office Alfred C. Holmes, Director, A. M. C.	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

T - 10889

1

PROJECT NO. (II):

PH-5702

FIELD OFFICE (III):

SHIP HODGSON

CHIEF OF PARTY

J. E. Waugh

PHOTOGRAMMETRIC OFFICE (III):

Baltimore, Maryland

OFFICER-IN-CHARGE

M. J. Tonkel

INSTRUCTIONS DATED (II) (III):

October 29, 1957	Project Diagram
November 27, 1957	22/MEK, S-2-HO
November 20, 1957	Office
September 11, 1959	Office

METHOD OF COMPILATION (III):

Graphic

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

DATE RECEIVED IN WASHINGTON OFFICE (IV):

(Field) 10-28-58

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):

N. A. 1927

VERTICAL DATUM (III): M. H. W.

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):

MAY 1936

LAT.:

LONG.:

☐ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 6,210,874.33 m.

X = 558,914.65 m.

Alaska

UTM 8

MAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE,
OR (IV) WASHINGTON OFFICE.

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

DESCRIPTIVE REPORT - DATA RECORD

T-10889

2

FIELD INSPECTION BY (II): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Office interpretation of 1955 and 1958 photos		
PROJECTION AND GRIDS RULED BY (IV): P. T. Dempsey		DATE 2-04-60
PROJECTION AND GRIDS CHECKED BY (IV): R. D. Shoup		DATE 2-04-60
CONTROL PLOTTED BY (III): F. J. Tarcza		DATE 2-08-60
CONTROL CHECKED BY (III): H. R. Rudolph		DATE 2-08-60
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): L. A. Senasack		DATE 6-10-60
STEREOSCOPIC INSTRUMENT COMPILATION (III):		PLANIMETRY DATE
		CONTOURS DATE
MANUSCRIPT DELINEATED BY (III): R. M. Whitson		DATE April 1960
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. Glaser		DATE April 1960
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD
T-10889

3

CAMERA (KIND OR SOURCE) (III):

Wild RC-8 " W" and C&GS 9-lens

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
55 W 9456 & 9457	21 Sept 1955	14:36	1:25,000	8.7 ft. above MLLW
57533	28 May 1958	14:30	1:20,000	1.7 ft. above MLLW

TIDE (III) (Predicted)

diurnal

	RATIO OF RANGES	MEAN RANGE	SEMI RANGE
REFERENCE STATION: SITKA, ALASKA		7.7	9.9
ORDINATE STATION: Port Beauchere		10.0	12.2
SUBORDINATE STATION:			

Atlantic Marine Center
XXXXXXXXXX REVIEW BY (IV):

C. H. Bishop

DATE:
2-29-72

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

0

RECOVERED:

IDENTIFIED:

NUMBER OF BM(S) SEARCHED FOR (II):

None

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

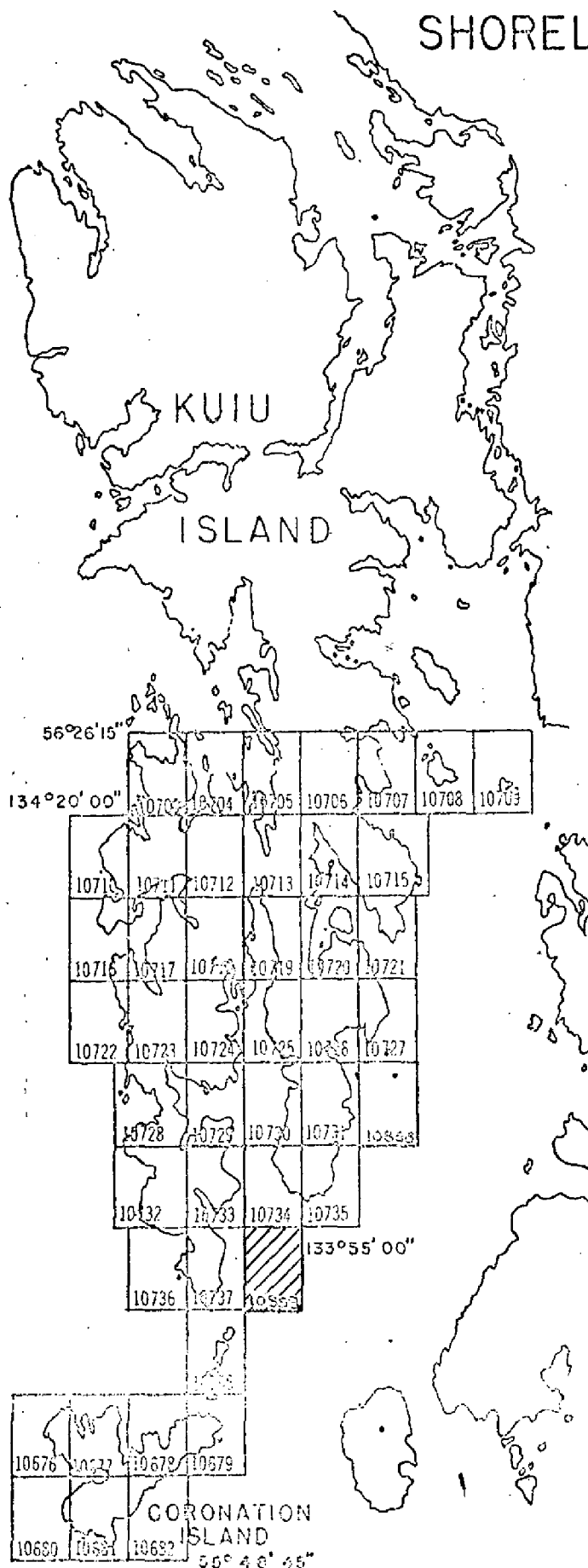
REMARKS:

T-10889

COMPILATION RECORD	COMPLETION DATE	REMARKS
Shoreline compiled	April 1960	
Final review	Feb. 1972	

SHORELINE MAPPING PROJECT

Ph-5702

CORONATION and
KUIU ISLANDS,
ALASKAOfficial Release For Cost AccountsCHATHAM
STRAIT

Sheet No.	Area Sq. Mi.	Lin. Mi Shoreline
10676	2	3.4
10677	8	11.1
10678	6	7.7
10679	3	6.0
10680	1	1.5
10681	8	7.7
10682	2	2.6
10703	10	11.5
10704	6	12.8
10705	9	11.9
10706	14	2.6
10707	4	7.7
10708	2	9.4
10709	1	3.0
10710	5	6.8
10711	11	7.7
10712	14	.6
10713	12	9.4
10714	5	8.5
10715	11	6.8
10716	4	5.1
10717	9	11.1
10718	13	6.0
10719	8	11.1
10720	9	8.5
10721	4	8.5
10722	2	1.3
10723	14	3.4
10724	11	10.2
10725	8	7.7
10726	11	4.3
10727	3	4.5
10728	10	14.5
10729	6	11.9
10730	5	4.3
10731	10	6.0
10732	10	6.0
10733	9	5.1
10734	3	5.4
10735	4	4.7
10736	1	1.5
10737	6	8.5
10738	1	6.6
TOTAL	295	298.8

SUMMARY

DESCRIPTIVE REPORT T-10889

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. Fairway Island is the only land area within T-10889. It is northeast of Cape Decision and south of Affleck Canal, in Sumner Strait.

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 scale plot using 1:10,000 scale ratio prints of single-lens photography taken in September 1955. 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.

No field edit of this map was accomplished. Classification of this map is INCOMPLETE.

Final review was done at the Atlantic Marine Center in February 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.

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

PURPOSE:

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 controlling photogrammetric plot 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.

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

Leroy A. Senasack

Leroy A. Senasack
(Carto. (Photo.))

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

* On nine-lens photographs only.

46 HOME, 1937
47 PEN, 1936
48 ENTER, 1936
49 HIND, 1936
50 ADEN, 1937

51 SOW, 1929
52 PIN, 1915
53 RUTH, 1937
54 VICK, 1937
55 HOPE, 1936

56 BUSH, 1936
57 DUB, 1936
58 MILT, 1937
59 MACK, 1937
60 HOLM, 1937

61 CLEVE, 1886-1922
62 ARTHUR, 1936
63 LEMON, 1936
64 NORTH, 1936
65 LEMON POINT ROCK LIGHT, 1958

66 STAR, 1936
67 AFFLECK, 1936
68 JUNE, 1937
69 BETS, 1937
70 ALBANS, 1886

71 MAC, 1899
72 MAC, 1936
73 SHORE, 1923
74 MIDDY, 1936
75 ZAG, 1923

76 CAPEDECISION LIGHT, 1936
77 SPANISH ISLAND LIGHT, 1936
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 " 9680
9463 " 9478	9687 " 9690
9550 " 9570	9696 " 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-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 templates and then drilled through the templates 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 - Nothing 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.

HOME, 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. Substitute 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.

- 5 -

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 $56^{\circ} 17.4$ N and $133^{\circ} 51.1$ 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

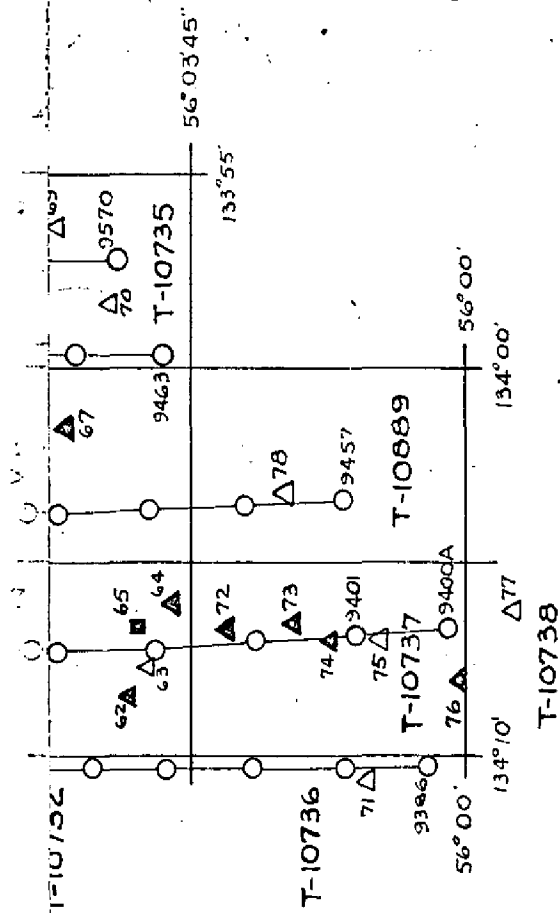
Leroy A. Senasack

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 | 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 | 44. 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. HIND, 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

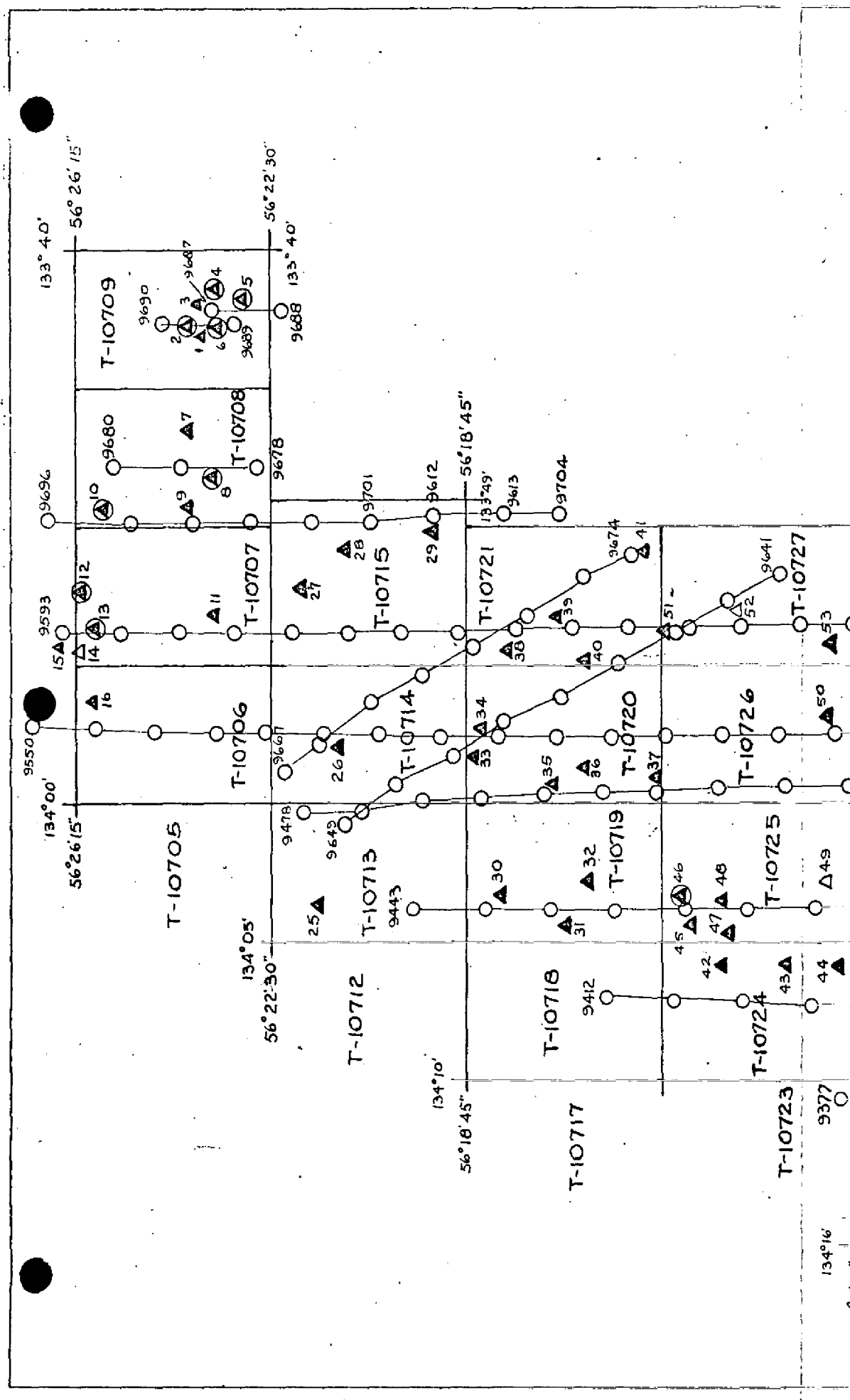


LAYOUT SKETCH PROJECT PH-5702

SURVEYS

T-10706 THRU T-10709
T-10713 THRU T-10715
T-10718 THRU T-10721
T-10724 THRU T-10731
T-10733 THRU T-10735
T-10737
T-10888 AND T-10889

- Single lens office photographs
- △ Control station identified
- ⊙ Control station not held in plot
- △ Control station office identified
- ⊞ Recoverable topo with field position



COMPILATION REPORT

T-10889

31. DELINEATION:

This manuscript was delineated by the graphic method.

32. CONTROL:

See Photogrammetric Plot Reports dated June 9, 1960 and June 10, 1960.

33. SUPPLEMENTAL DATA:

Hydrographic Survey No. 62 84, Approaches to Affleck Canal, scale 1:20,000, dated Sept. 1937. This survey was helpful in interpreting shoreline, rocks and foul areas on the photographs.

34. CONTOURS AND DRAINAGE:

Not applicable to this manuscript.

35. SHORELINE AND ALONGSHORE DETAILS:

There was no field inspection. Delineation was based on office interpretation of the photographs. The mean high water line on the north side of Fairway Island was obscured by trees and shadows and is shown with a dashed line.

The 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 map scale by use of the vertical projector.

36. OFFSHORE DETAILS:

No comment.

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

There were no details at the limits of this sheet to junction with adjoining sheets.

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 1:25,000, dated 1952.

47. COMPARISON WITH NAUTICAL CHARTS:

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

Items to be applied to nautical charts immediately:

None

Items to be carried forward:

None

Respectfully submitted;

R. Glaser
Cartographer (Photo)
11 January 1962

October 26, 1971

GEOGRAPHIC NAMES

FINAL NAME SHEET


PH-5702 (Alaska)

T-10889

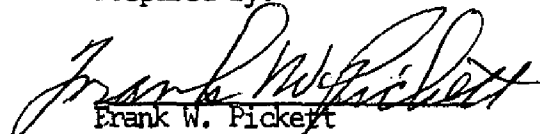
Fairway Island

Sumner Strait

Approved by:


A. Joseph Wraight
Chief Geographer

Prepared by:


Frank W. Pickett
Cartographic Technician

NOTES FOR THE HYDROGRAPHER

SUMNER STRAIT

(Cape Decision to Point Amelius)
Surveys T-10726, T-10727, T-10731,
T-10734, T-10735, T-10737,
T-10888 and T-10889

These surveys were delineated by office interpretation of photographs taken near high water. Ledge areas, approximate low water lines, and rocks awash at low tide were delineated from nine-lens photography, scale 1:20,000, taken at a low stage of tide (about 2' above MLLW), using a reflecting projector to correct for scale difference.

A dashed line was used to indicate extent of kelp and foul areas visible on single lens photographs.

The MHW line was shown with a dashed line in a few areas in deep shadows.

Verify, or indicate correction to, office interpreted shoreline.

Verify, or correct, extent of ledge areas and character of foreshore. (Shown as gravel, ledge, etc.)

Inspect and indicate extent of bluffs of importance for charting.

Inspect and give elevations of those offshore rocks and rocks awash whose elevations are of importance to navigation.

Reidentify station BUSH, 1936 (survey T-10729) photographs 55-W-9405 and 9406). This station is critical for photogrammetric plot. Previous identification is in error but the error cannot be definitely determined in the office. (This survey is ^{on} Affleck Canal and has not been compiled. It is northwest of T-10734, at the mouth of Kell Bay.)

REVIEW REPORT T-10889

SHORELINE

February 29, 1972

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print, pages 27 through 28, showing 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. 6584, scale 1:20,000, dated June 1937. Differences between this survey and T-10889 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 PORT ALEXANDER (A-1), ALASKA, scale 1:63,360, dated 1948. Significant differences between this map and T-10889 are shown in brown on the comparison print.

A group of rocks at approximate latitude $56^{\circ}01.2'$, longitude $134^{\circ}02.9'$ is not visible on the photographs and is not shown on registered topographic or contemporary hydrographic surveys. Hydrographic Survey No. 6284 shows a depth of 26 fathoms at this location and a least depth of $7 \frac{1}{4}$ fathoms approximately 1600 meters southwest of the rocks indicated on the U.S.G.S. quadrangle.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with Survey No. 6284, scale 1:20,000, dated July-September 1937. Differences between this survey and T-10889 are shown in purple on the comparison print.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 8173, scale 1:40,000, 5th edition, dated 30 August 1969. Significant differences between this chart and T-10889 are shown in red on the comparison print.

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 H. Bishop
Cartographer
29 February 1972

Approved for forwarding:

Melvin J. Umbach
Melvin J. Umbach, CDR, NOAA
Chief, Photogrammetry Division, AMC

Approved:

Alfred C. Holmes
Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center

Approved:

Charles L. Lamm *Jack E. Luth*
Chief, Photogrammetric Branch Chief, Coastal Mapping Division

03'30"

9456

COMPARISON PRINT

Blue = T-6584
Purple = H-6284
Brown = U.S.G.S.
Red = Chart 8173

56°03'

Also on H-6284

Also on U.S.G.S.

* kelp

WAY	1936
-----	------

FAIRWAY ISLAND

02'30"

FAIRWAY 2
1899 - 1923

Also on
H-6284

Fairway Island shoreline
is the same on H-6284
as on T-6584.

28

56° 02'

kelp

kelp

*



*

*

kelp



9457

COMPARISON PRINT

Purple = H-6284

Brown = U.S.G.S.

R

01'30"

E

N

M

U

S

*

*

*

56° 01'

03'30"

134° 03'

02'30"

2