

10715

10715

FORM C&amp;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-10715

## LOCALITY

State ..... ALASKA

General locality KUIU ISLAND - SUMNER ISLAND

Locality ..... BOULDER POINT

1955-62

## CHIEF OF PARTY

J. E. Waugh, Chief of Field Party  
J. Steinberg, Acting, Baltimore D. O.  
Alfred C. Holmes, Director, A. M. O.

## LIBRARY &amp; ARCHIVES

DATE .....

## DESCRIPTIVE REPORT - DATA RECORD

T - 10715

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SUBJECT NO. (II):  PH-5702		
FIELD OFFICE (III):  SHIP HODGSON		CHIEF OF PARTY  J. E. Waugh
PHOTOGRAMMETRIC OFFICE (III):  Baltimore		OFFICER-IN-CHARGE (acting)  J. Steinberg
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):		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):  ROSE 1937		
LAT.: 56° 21' 10.512" (325.1m)	LONG.: 133° 57' 55.702" (956.6 m)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV):  Y = 6,245,626.83 m.      X = 563,933.01 m.		STATE  Alaska
		ZONE  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

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FIELD INSPECTION BY (II): G. L. Short, H. H. Druebert, R. D. Bernard & R. E. Alderman		DATE: April-May 1958 Sept.-Oct. 1958
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Office interpretation of 1955 photographs supplemented by field edit in 1962.		
PROJECTION AND GRIDS RULED BY (IV): P. J. Dempsey		DATE 11-03-59
PROJECTION AND GRIDS CHECKED BY (IV): P. J. Dempsey		DATE 11-03-59
CONTROL PLOTTED BY (III): M. Cunningham		DATE 11-10-59
CONTROL CHECKED BY (III): H. R. Rudolph		DATE 11-19-59
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): L.A. Senasack		DATE 6-10-60
STEREOSCOPIC INSTRUMENT COMPILATION (III):  Not applicable	PLANIMETRY	DATE
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): B. Wilson		DATE 7-12-60
SCRIBING BY (III): Field edit corrections applied by: J. C. Oregan J. Y. Council		DATE 9-18-62
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. Glaser Field edit review by: H. R. Rudolph		DATE 7-14-60 9-18-62 5-01-63
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD  
T-10715

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ERA (KIND OR SOURCE) (III):

Wild RC-8 "W"

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
55 W 9586 thru 9589	21 Sept 55	15:28	1:25,000	11.1 ft. above MLLW
55 W 9700 thru 9701	22 Sept 55	09:56	"	3.8 ft. " "
55 W 9612	21 Sept 55	15:46	"	

## TIDE (III) (PREDICTED)

diurnal

	RATIO OF RANGES	MEAN RANGE	<del>SPRING</del> RANGE
REFERENCE STATION: SITKA, ALASKA		7.7	9.9
SUBORDINATE STATION: Port Beaucherc		10.0	12.2
SUBORDINATE STATION:			

Atlantic Marine Center

WASHINGTON OFFICE REVIEW BY (IV):

C. H. Bishop

DATE:

Jan. 1972

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

4

RECOVERED: 4

IDENTIFIED:

3

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

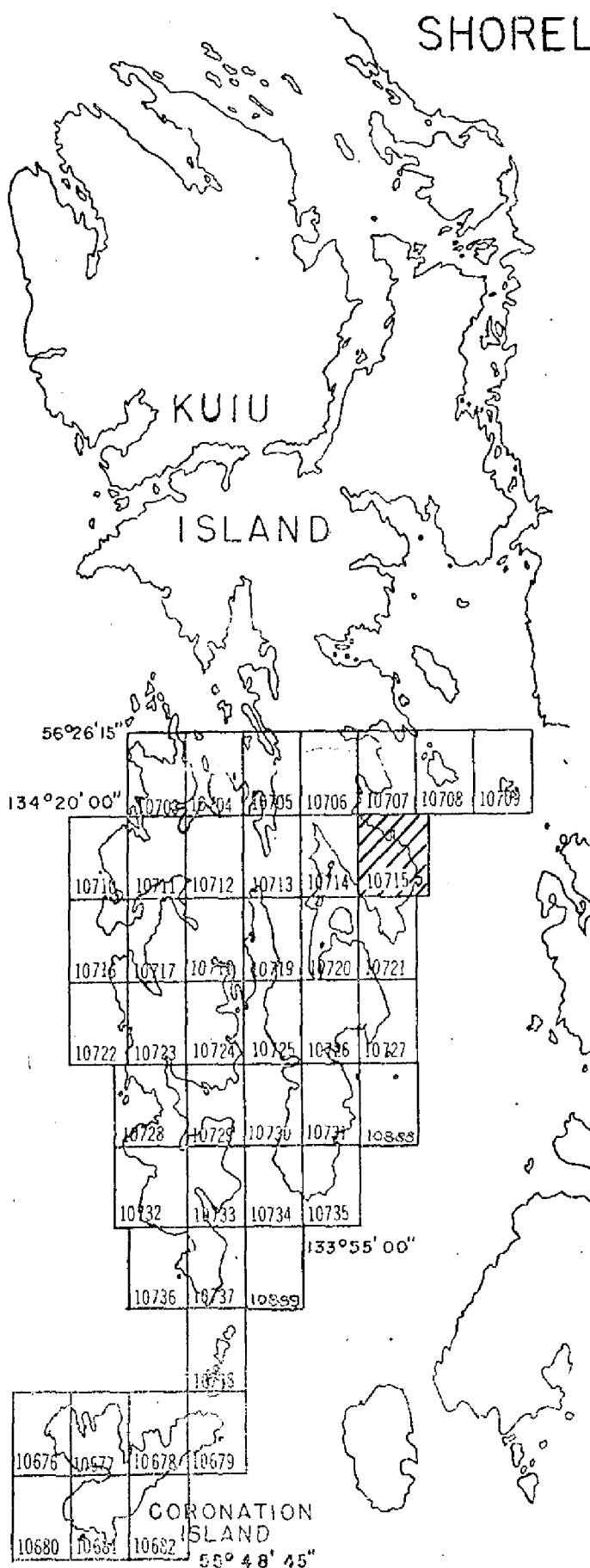
REMARKS:

T-10715

COMPILATION RECORD	COMPLETION DATE	REMARKS
Copy for blue line	Feb 1962	Superseded
Field Edit 1962 applied	May 1963	
Final Review	Jan. 1972	

## SHORELINE MAPPING PROJECT

Ph-5702

CORONATION and  
KUIU ISLANDS,  
ALASKAOfficial Mileage For Cost Accounts

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	9.9
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	4.3
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	3	3.4
10734	3	4.7
10735	1	1.5
10736	6	8.5
10737	1	6.0
10738	1	6.0
TOTAL	295	298.8

## SUMMARY

## DESCRIPTIVE REPORT T-10715

This shoreline manuscript, scale 1:10,000, is one of 45 maps planned for Project PH-5702, which includes shoreline around the south half of Kuiu Island, Spanish Islands, and Coronation Island. Only 33 maps were compiled. T-10715 includes Boulder Point, the eastmost part of Kuiu 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 to establish pass point positions to control a 1:10,000 scale plot using 1:10,000 scale ratio prints of single-lens 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 report of this work is available. 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 6 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 occurring 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:

BEG 1929  
END 1929  
CLERC 1915

- 2 -

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 Control 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 Beauclerc, northwest 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:

Beauclerc Island Light

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

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 REPORT AND DATA

<u>Title</u>	<u>Disposition</u>
1. Photogrammetric Field Data	Washington Office with this report

15 - 20 NOT USED

*Herman H. Druebert*  
Herman H. Druebert  
LTJG, C&GS

Approved and Forwarded

*J. E. Waugh*  
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

## 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 DEL, 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 BEAUGLER 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 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

## 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.

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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  
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



SCALE FACTOR

COMM-DC-57843

U.S. DEPARTMENT OF COMMERCE  
DESCRIPTIVE REPORTCOAST AND GEODETIC SURVEY  
CONTROL RECORD

MAP T. 10715

PROJECT NO. PH-5702

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
POM, 1929	Page 22	N.A. 1927	6,246,957.95				
SUB PT. "A"	Comp.	"	569,885.83				
POM, 1929	Comp.	"	6,246,885.23				
SUB PT. "B"	Comp.	"	569,997.41				
POM, 1929	Comp.	"	6,246,948.78				
TURN, 1929	Page 22	"	569,882.68				
SUB PT. "A"	Comp.	"	6,245,472.37				
TURN, 1929	Comp.	"	571,142.22				
SUB PT. "B"	Comp.	"	6,245,400.42				
BOULDER, 1915	Page 22	"	571,215.92				
SUB PT. "A"	Comp.	"	6,245,486.37				
BOULDER, 1915	Comp.	"	571,142.49				
SUB PT. "B"	Comp.	"	6,242,454.86				
BOULDER, 1915	Comp.	"	572,347.17				
SUB PT. "C"	Comp.	"	6,242,353.46				
BOULDER, 1915	Comp.	"	572,351.69				
SUB PT. "A"	Comp.	"	6,242,365.45				
BOULDER, 1915	Comp.	"	572,286.60				
SUB PT. "B"	Comp.	"	6,242,430.85				
BOULDER, 1915	Comp.	"	572,336.22				
REID, 1929	Page 23	"	6,248,099.10				
			567,185.54				
							2
							2

1 FT. = 3048006 METER

COMPUTED BY: M. CUNNINGHAM

DATE

10/9/59

CHECKED BY:

B. WILSON

DATE

11/3/59

COMM-DC-57843

## COMPILATION REPORT

Map Manuscripts T-10714 and T-10715

31. DELINEATION:

These manuscripts were delineated by the graphic method.

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

32. CONTROL:

Horizontal control was adequate for the compiler. See the photogrammetric plot report for difficulties encountered in constructing the radial plot.

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. When this occurred, the shoreline was delineated with a dashed line.

Shoreline and alongshore details were corrected or verified by field edit during the 1962 field season. The approximate 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 the scale of the manuscript by use of the vertical projector. Field edit also corrected or verified these features.

36. OFFSHORE DETAILS:

No comment.

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

Satisfactory junctions have been made with T-10720 and T-10721 to the south and T-10707 to the north. There are no details to be joined to the north with T-10706 nor to the west with T-10713.

40. HORIZONTAL AND VERTICAL ACCURACY:

No comment.

41 through 45. Not used.

46. COMPARISON WITH EXISTING MAPS:

U. S. G. - S. - PETERSBURG, ALASKA - Reconnaissance Topographic Series, Scale 1:250,000, published in 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;

R. Glaser  
Carto (Photo)  
21 September 1962

October 26, 1971

GEOGRAPHIC NAMES

FINAL NAME SHEET

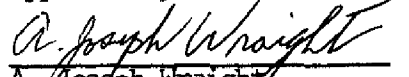
PH-5702 (Alaska)

T-10715


Boulder Point  
Kuiu Island

Sumner Strait

Approved by:

  
A. Joseph Wraight  
Chief Geographer

Prepared by:

  
Frank W. Pickett  
Cartographic Technician

# NOTES FOR THE HYDROGRAPHER

## Sumner Strait

(Sumner Island and Alvin Bay to Port Beauclerc)

Surveys T-10706 through T-10709,

T-10714, T-10715,

T-10720 and T-10721

These surveys were delineated by office interpretation of the photographs. In Sumner Strait, photographs were taken at a low stage of tide and MHW line should be carefully verified. In Port 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. Nine-lens 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 Port 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.  $56^{\circ} 18.8'$ , Long.  $133^{\circ} 59.3'$  (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.  $56^{\circ} 18.2'$ , Long.  $133^{\circ} 54.0'$  (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 EIB, 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.

## PHOTOGRAMMETRIC OFFICE REVIEW

T-10714, T-10715

1. Projection and grids ☒ 2. Title ☒ 3. Manuscript numbers ☒ 4. Manuscript size ☒

## CONTROL STATIONS

4a. Classification label ☒5. Horizontal control stations of third-order or higher accuracy ☒ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ☒ 7. Photo hydro stations ☒ 8. Bench marks ☒  
9. Plotting of sextant fixes ☒ 10. Photogrammetric plot report ☒ 11. Detail points ☒

## ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ☒ 13. Low-water line ☒ 14. Rocks, shoals, etc. ☒ 15. Bridges ☒ 16. Aids to navigation ☒ 17. Landmarks ☒ 18. Other alongshore physical features ☒ 19. Other along-shore cultural features ☒

## PHYSICAL FEATURES

20. Water features ☒ 21. Natural ground cover ☒ 22. Planetable contours ☒ 23. Stereoscopic Instrument contours ☒ 24. Contours in general ☒ 25. Spot elevations ☒ 26. Other physical features ☒

## CULTURAL FEATURES

27. Roads ☒ 28. Buildings ☒ 29. Railroads ☒ 30. Other cultural features ☒

## BOUNDARIES

31. Boundary lines ☒ 32. Public land lines ☒

## MISCELLANEOUS

33. Geographic names ☒ 34. Junctions ☒ 35. Legibility of the manuscript ☒ 36. Discrepancy overlay ☒ 37. Descriptive Report ☒ 38. Field inspection photographs ☒ 39. Forms ☒40. R. Glaser Joseph W. Monarok  
Reviewer Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

## FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

J. C. Cregan, J. Y. Council  
CompilerJoseph W. Monarok  
Supervisor

43. Remarks:

## FIELD EDIT REPORT

T-10715

There was no Field Edit Report available at the time of Final Review and none is bound with this Descriptive Report.

## REVIEW REPORT T-10715

## SHORELINE

January 11, 1972

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print, pages 30 through 31, showing differences noted in Item 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 comparison was made with U.S.G.S. Quadrangle PETERSBURG (B-6), ALASKA, scale 1:63,360, dated 1948. No significant differences between this map and T-10715 were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a copy of the boat sheet for Survey H-8688, scale 1:10,000, dated 1962. Three rock elevations shown on H-8688 differ from elevations of the same rocks on T-10715. These differences are noted in purple on the comparison print.

Approximately one mile of shoreline south of Boulder Point was compared with Survey H-8653, scale 1:10,000, dated 1961. No significant differences between H-8653 and T-10715 were noted.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 8201, scale 1:217,828, 16th edition, dated Nov. 7, 1970. No significant differences between this chart and T-10715 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 H. Bishop  
Cartographer  
11 January 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

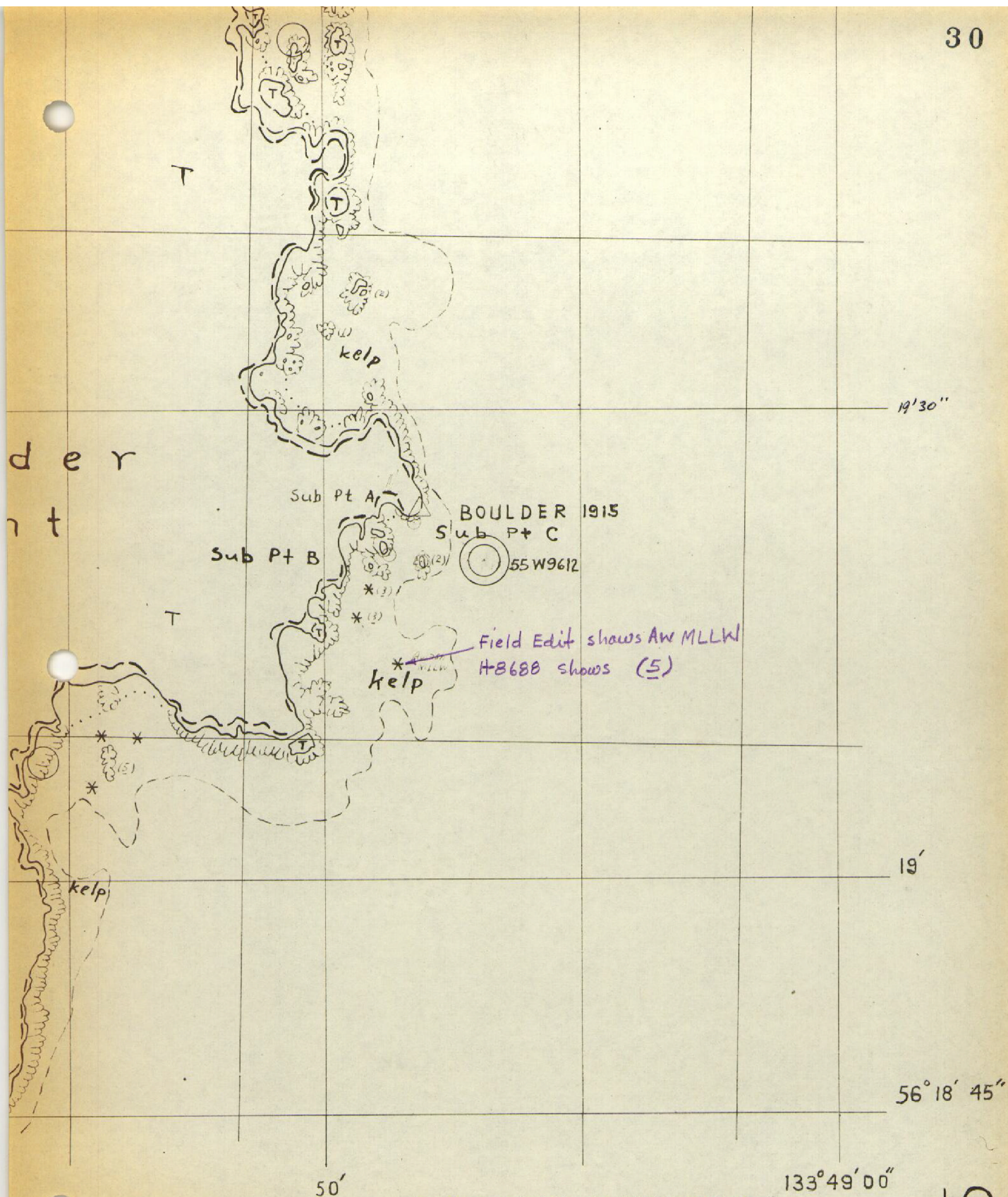
Approved:

*Charles H. Stumm*

Chief, Photogrammetric Branch

*Jack E. Smith*

Chief, Coastal Mapping Division



r or higher accuracy  
ter

SHORELINE MANUSCRIPT

T-10715

ALASKA

SUMNER STRAIT

BOULDER POINT

0715

