

9149

Original

9149

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-9149
LOCALITY	
State	ALASKA
General locality	PRINCE WILLIAM SOUND
Locality	SAWMILL BAY
1950-55	
CHIEF OF PARTY	
Cartographic Branch, Photogrammetry Division Washington, D. C.	
LIBRARY & ARCHIVES	
DATE	

## DESCRIPTIVE REPORT - DATA RECORD

T - 9149

1

PROJECT NO. (II):

PH-152

FIELD OFFICE (III):

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Washington, D. C.

OFFICER-IN-CHARGE

L. W. Swanson

INSTRUCTIONS DATED (II) (III):

31 December 1954 - 731-MKL

11 February 1955 - 732-MKL

14 March 1956 - Supplement 2, Project 6152

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):

LAT.:

LONG.:

☐ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y =

X =

ROMAN 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.

Field Inspection by (II):  
See Photogrammetric plot report  
Date:

Planetable contouring by (II): --  
Date:

Completion Surveys by (II): --  
Date:

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

Projection and Grids ruled by (IV): A. Riley  
Date: 1-7-55

Projection and Grids checked by (IV): H. D. Wolfe  
Date: 1-12-55

Control plotted by (III): G. Amburn  
Date: 16-18 Mar. 1955

Control checked by (III): J. Hundley  
Date: 21-22 Mar. 1955

Radial Plot or Stereoscopic  
Control extension by (III): S. G. Blankenbaker  
J. E. Hundley  
Planimetry  
Date: 13 April 1955

Stereoscopic Instrument compilation (III):  
Contours  
Date:

Manuscript delineated by (III): 9146 - Charles Baldwin  
9147 - J. E. Hundley  
9148 - S. G. Blankenbaker  
9149, 9150, 9151 - J. P. Battley, Jr.  
Date: April 1955

Photogrammetric Office Review by (III): R. J. French  
Date: April 1955

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

Camera (kind or source) (III): "W" USC&GS, Single lens and Air Force  
Single lens

3

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
54W-2296-2303	26 July 1954	12:29-12:33	1:10,000 (Ratio)	5.9 above MLLW
54W-2306-2311	" " "	12:40-12:43	"	5.7 " "
54W-2315-2322	" " "	12:56-12:59	"	4.7 " "
54W-2393-2401	" " "	13:42-13:45	"	4.0 " "
91RTS, M324, 91SRW, 41VV-45VV-17 July '50 - 11:30			"	5.3 " "
91RTS, M348, 91SRW, 59VV-64VV-2 Aug. '50 - 12:30			"	6.0 " "
		UNKNOWN		Near HW

Tide (III)

Diurnal

Reference Station: CONDOVA, ALASKA, pp. 122 & 181  
Subordinate Station: \*CULROSS BAY, WELLS PASSAGE  
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	10.0	12.4
1.0	9.7	12.1

Atlantic Marine Center

~~Washington Office~~ Review by (IV):

C. H. Bishop

Date: 2-18-71

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

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

Shoreline (More than 200 meters to opposite shore) (III): 19

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Recovered:

Identified:

Number of BMs searched for (II):

Recovered:

Identified:

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

The following data also applies to this project (Ph-152):

* Subordinate Station	Time of Tide	Ratio of Ranges	Mean Range	Diurnal Range
Hogg Bay, Port Bainbridge	-05'	0.8	8.3	10.6
Latouche, Latouche I.	00	0.9	9.1	11.5
Sawmill Bay, Evans I.	00	0.9	8.9	11.3
Eshamy Bay, Knight I. Passage	+05'	1.0	9.5	11.9
Chenega I., Dangerous Passage	+05'	0.9	9.2	11.6



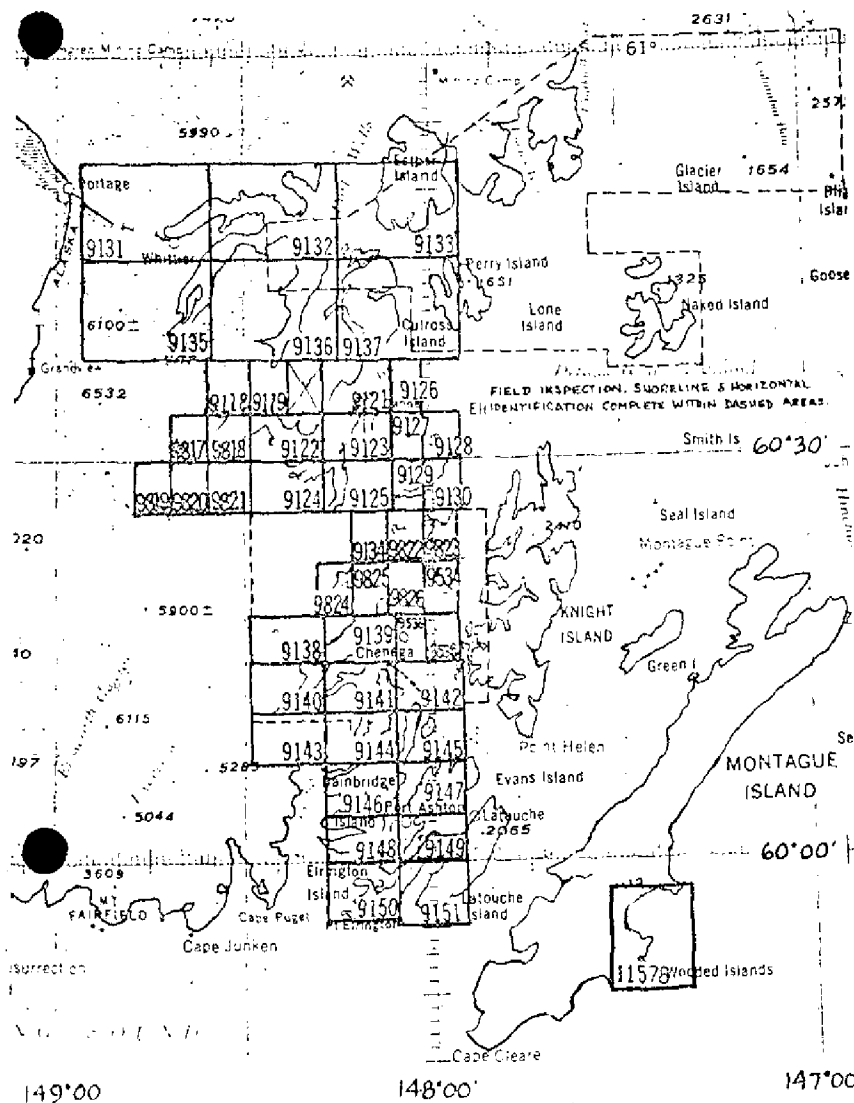
T-9149

COMPILATION RECORD	COMPLETION DATE	REMARKS
Shoreline compiled	April 1955	Superseded
Manuscript revised	May 1956	
New radial plot, Manuscript revised	Dec. 1957	
Final review	Feb. 1971	

## SHORELINE MAPPING PROJECT PH - 152

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Prince William Sound, Alaska



OFFICIAL MILEAGE FOR COST ACCOUNT  
 LIN. MI. AREA  
 SHEET NO. SHORELINE MILES

9118	3	13
9119	9	11
9121	11	10
9122	23	7
9123	17	7
9124	7	5
9125	13	6
9126	5	3
9127	6	3
9128	5	3
9129	7	8
9130	14	6
9131	12	95
9132	48	50
9133	36	45
9134	5	11
9135	24	90
9136	26	85
9137	68	48
9138	10	7
9139	13	5
9140	12	8
9141	24	12
9142	10	3
9143	9	4
9144	26	9
9145	19	8
9146	18	8
9147	24	9
9148	25	9
9149	19	7
9150	24	20
9151	15	0
9534	6	4
9536	6	6
9538	4	1
9817	9	10
9818	11	0
9819	3	9
9820	7	5
9821	2	10
9822	9	9
9823	7	4
9824	9	10
9825	11	6
9826	10	8
11578	19	21

TOTALS

702

726

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-9149

Several years have elapsed between the compilation and final review of this map. No C&GS photographs were available at the time of final review; two Air Force photographs were available. The compilation record was added by the final reviewer.

This shoreline manuscript, scale 1:10,000, is one of 43 maps that comprise Project PH-152, which is in the western part of Prince William Sound. T-9149 centers on the northeast end of Elrington Island and includes Sawmill Bay.

Compilation was by radial plot in 1955, using ratio prints of 1:30,000 scale C&GS photography taken in July 1954 and ratio prints of 1:40,000 scale photography taken by the Air Force in July 1950. There was no field inspection before the original compilation.

Previously established horizontal control and new triangulation stations were identified during the 1955 field season. Using these additional stations, new positions for pass points and photo centers used in the original plot were determined by stereoplanigraph bridging and the manuscript was revised in 1956. A new radial plot was run in 1957 and the map was again revised to incorporate datum changes. This holds true for the area north of latitude 60°02'30".

The Field Inspection Report by Kenneth A. MacDonald in 1955, which is bound with this report, indicates that little, if any, field edit was accomplished, other than the recovery and identification of additional horizontal control and the establishment and identification of new control, where needed. ~~This did not affect this map south of latitude 60°02'30".~~ CHB

Inasmuch as control was inadequate for accurate compilation of this map, especially south of latitude 60°02'30", the classification is PRELIMINARY.

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

The compilation manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 11 minutes 15 seconds in longitude.

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

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PHOTOGRAMMETRIC PLOT REPORT NO. 1  
PRINCE WILLIAM SOUND, ALASKA  
Project PH-152

21. AREA COVERED

Shoreline manuscripts (preliminary) included in this report are the following: T-9146, T-9147, T-9148, T-9149, T-9150 and T-9151.

22. METHOD

Polyconic projection and grid lines were ruled at 1:10,000 scale on the manuscripts. The grid lines were used in joining the manuscripts for the radial plot. Manuscripts T-9144 and T-9145 were included with those previously listed for one laydown. A tab was made to extend to control stations LATOUCHE COMM. CLUB, FLAG POLE, 1927, SUMMIT, 1905, and LATOUCHE HIGH PEAK, 1905 on the east.

The calibration templets were used, for all photographs involved, in the preparation of the vinylite hand templets.

The photographs were positype paper prints with enlargement of three and four diameters. All photographs used are listed in the data record of this report.

The results obtained from the radial plot most probably meet the requirements of mapping accuracy in the areas covered by manuscripts T-9146, T-9148, T-9150 and are less accurate in the areas covered by manuscripts T-9147, T-9149 and T-9151. These conditions are the results of a combination of factors, such as:  
1. Flight line coverage of single-lens photography, and 2. scarcity of identifiable control, especially on the north end of ELRINGTON ISLAND and west central coast of LATOUCHE ISLAND. Note: Metal templets were prepared and used in an attempted laydown of the plot but the results were questionable and the method abandoned.

Some difficulty was encountered in transferring control from 1:40,000 scale prints to 1:10,000 scale prints. (See paragraph 24 of this report.)

23. ADEQUACY OF CONTROL

An attached sketch indicates the density and distribution of control within the area covered by this report. The majority of control stations were office identified, and only seventy-two percent held in the plot. Control is inadequate/void at or near north end of Elrington Island and on west central coast of Latouche Island.

Map position is believed to be least accurate in the eastern half of manuscripts T-9147, T-9149 and T-9151.

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24. SUPPLEMENTAL DATA

The following planetable sheets were aids in identifying control and in the delineation of shoreline and foreshore features:

2770 - scale 1:40,000, 1906  
3093 - scale 1:20,000, 1910  
4285 - scale 1:10,000, 1927  
4308 - scale 1:20,000, 1927  
4316 - scale 1:10,000, 1927

Photo-identification data of horizontal control, on 1:40,000-scale prints by the 30th Engineer Battalion in 1951, was used in conjunction with office identification of control on 1:10,000-scale prints.

25. PHOTOGRAPHY

The photography was adequate as to coverage and overlaps, but inadequate as to placement of flight lines and definition on outer edges.

Although the higher altitude photography minimized relief displacement of trees along the shoreline, it did not alleviate the problem of picking control and pass points in those areas.

SKETCH AND GEOGRAPHIC POSITIONS

A sketch and list of geographic positions are attached.

Approved:

Respectfully submitted

Roscoe J. French  
Roscoe J. French  
Supervisory Cartographer

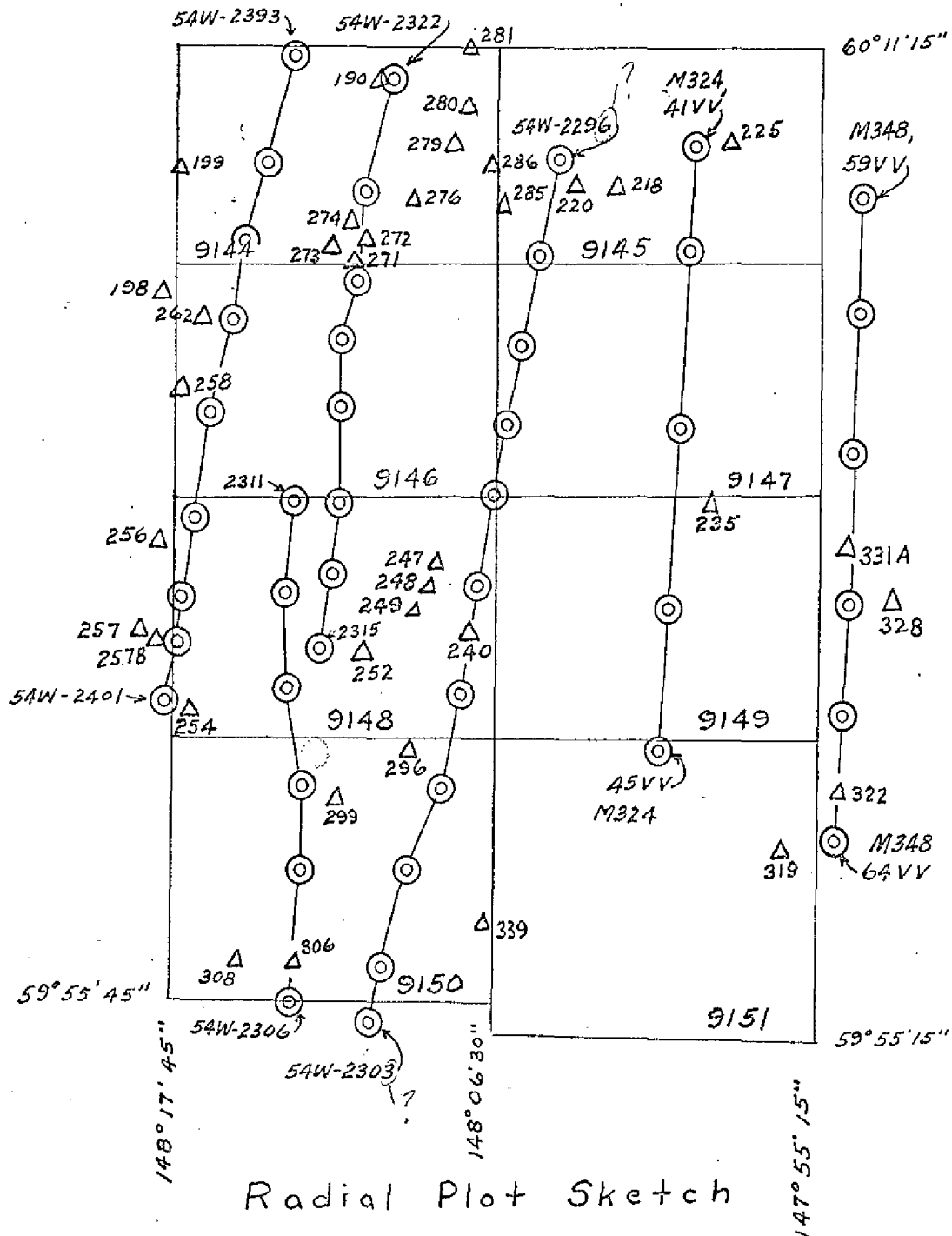
James E. Hundley  
James E. Hundley  
Cartographer

PH-152

HORIZONTAL CONTROL STATIONS HELD IN RADIAL PLOT NO. 1  
T-9146, T-9147, T-9148, T-9149, T-9150, T-9151

190. BEBE, 1933 (Sub. Sta.)*	272. CROSS, 1948
198. WAT, 1927, r-48	273. CLEAR, 1948
199. GCAT, 1927	274. HALF, 1948
218. ROT, 1910	276. AGE, 1948
220. HCRN, 1910	279. RUTH, 1948
225. BEAR, 1907, r-09	280. NUB, 1948 (Sub. Sta.)*
F 235. SHUN, 1927	281. LON, 1948
F 240. ISLE, 1910, r-27	285. INNER, 1948
F 247. SAND, 1910	286. SIP, 1948
F 248. FED, 1910	F 296. ISLAND, 1927
249. OFF, 1910	F 299. LONE TREE PT. LT., 1927
{ 252. TOP 2, 1927	306. NOB, 1927
254. ROCK (ROCK 2), 1927	F 308. ELRINGTON LT., 1927
F 256. SWAN, 1927	319. KNOB, N. of Fairview, 1905
F 257. PIKE, 1927	322. LATOUCHE HIGH PK., 1905
257B. HEN, 1927	328. SUMMIT, 1905, r-07
258. HOGG, 1927	331A. LATOUCHE, COMMUNITY CLUB, FLAG POLE, 1927
262. HYDRO, 1948	339. ELRINGTON, HIGHEST PK., 1905
271. PLAIN, 1948	

\*Field identified.





PHOTOGRAMMETRIC PLOT REPORT  
Prince William Sound, Alaska  
Project 6152, T-9148 thru T-9150  
Scale 1:10,000  
May 1956

References: 1. Field data - Project 6152 (1277), Prince William Sound, Alaska dated 28 December 1955. 2. Instructions (Office) - Project 6152, Supplement 2, dated 14 March 1956.

21. AREA COVERED

This report applies to shoreline maps T-9148 through T-9150. T-9148 and T-9150 are classified as "Incomplete" maps and T-9149 is classified as a "Preliminary" map.

22. METHOD

Refer to the corresponding paragraph in the attached Photogrammetric Plot Report No. 1 attached to this Descriptive Report.

23. ADEQUACY OF CONTROL

Control was adequate for the area of T-9148 and T-9150 and map positions are within Bureau standards. Control is inadequate for the area of T-9149 and also for T-9151 which latter map is to the east of T-9150 and south of T-9149. Horizontal control recovered or established in 1955 and field identified on photographs was available for this plot.

24. SUPPLEMENTAL DATA

None.

25. PHOTOGRAPHY

Refer to corresponding paragraph for Photogrammetric Plot Report No. 1.

SKETCH AND FORM M-2388-12. CONTROL STATION DATA

A sketch and list of geographic positions are attached.

Submitted:

*K. N. Maki*  
K. N. Maki

PRINCE WILLIAM SOUND  
CONTROL SUMMARY FOR  
PHOTOGRAMMETRIC PLOT  
T-9148, T-9149, T-9150

The following stations, field identified on photographs, were used in this radial plot:

T-9148

Off, 1910	0.3 mm
Ped, 1910	0.4 mm
*Rock (Rock 2) 1927	Held
Isle, 1910	0.4 mm
Top 2, 1927 Sub. pt.	Held
Swan, 1927 " "	Held
Sand, 1910 " "	2 rays of 3 held
Pyke, 1927 " "	Held
Bald, 1955 " "	Held
Pass, 1955 " "	Held

\*Station Po, 1927 was field identified as the top of the highest rock in a group of rocky islets but this is the description of station Rock (Rock 2) 1927 and station Po, 1927, according to description, is 10 feet above MHW. Thus, the station identified as Po, 1927 is actually station Rock (Rock 2) 1927 which latter station was held in the radial plot. The subject stations are approximately 70 meters distant from each other.

T-9149

Evans Bay Lt, 1955	1.0 mm
Elrington Passage Lt, 1955	Held
Evans, 1905 Sub. Pt.	2 rays of 3 held
Shun, 1927 Sub. Pt.	Held

T-9150

Nod, 1955	Held
Add, 1955	0.3 mm
Evans Island Lt, 1955	Held
Elrington Lt, 1927	0.2 mm
Wales 2, 1927	Held
Lone Tree Pt Lt, 1927	0.2 mm
Island, 1927	Held
Blank, 1927 Sub. Pt.	Held
Foot, 1905 " "	Held
Rington, 1955 " "	Held
Donald, 1955 " "	Held

- 2. -

T-9146 (north of plot)

Hard, 1955, Sub. Pt.

Held

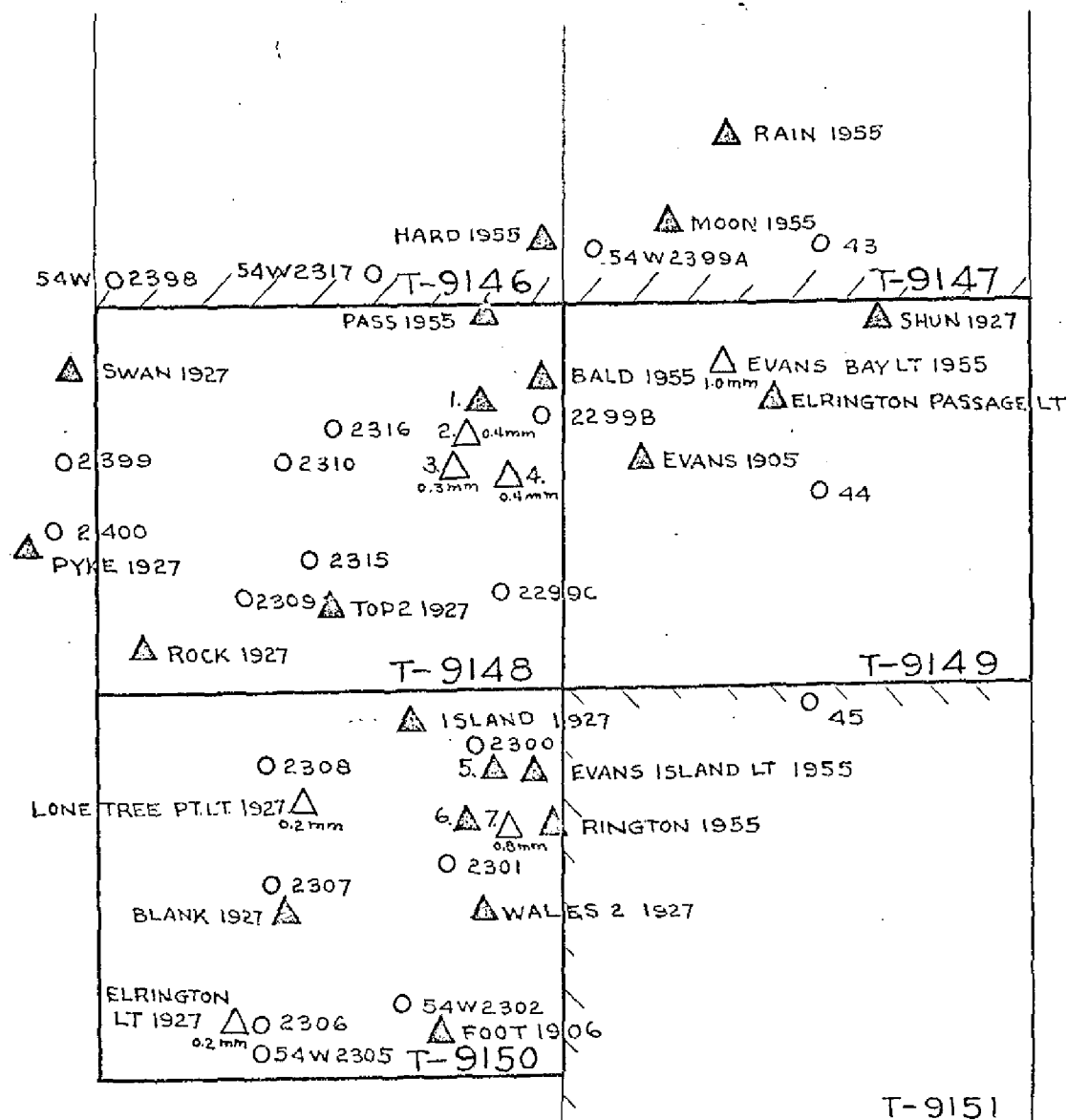
T-9147 North of plot)

Moon, 1955

Held

Rain, 1955

Held



PROJECT PH-152  
 PHOTOGRAMMETRIC PLOT REPORT  
 (T-9138 through T-9147) Supplement 2  
 (Including Portions of T-9148 and T-9149)  
 December 1957

21. AREA COVERED

This radial plot covers the area comprising manuscripts T-9142, T-9144 and T-9145, T-9146 and T-9147, T-9148 and T-9149. Sheets T-9148 and T-9149 were included to effect a junction with previous overlapping plots.

22. METHOD

This plot was laid on the original manuscripts with original templates. Control identified in 1955, 1956, and 1957 was added to the manuscripts and photographs to strengthen positions obtained by former radial plots and stereoplanigraph bridging.

The plot was begun on T-9145 where the templates were well-controlled. (see plot sketch) This area was very rigidly fixed and tied into original positions on T-9142 and T-9144. From here the plot was extended on control stations until a satisfactory junction was made with previous work on T-9148 and T-9149. Areas of position change occurred mainly on T-9147 and in local areas on T-9145, T-9146 and T-9149.

23. ADEQUACY OF CONTROL

Control was adequate for most of the plot and most of the stations were held. Another station in the eastern half of T-9147 would have helped as this area is considered weak due to lack of control and photography.

Except as discussed below all stations held (within 0.2 mm):

Stations missed by 0.3 mm are as follows:

(283)	(279)	(273)
BABE 1948,	RAFT 1956,	RUTH 1948,
HARD 1955(Sub Pt),	IKTUA 1955,	ROCK 2 1927(2 Rays)
(249)	(238)	

OFF 1927, EVANS 1905 (Sub Pt). These differences are not regarded as significant because the original templates had distorted some and both manuscripts and templates were slightly mutilated by use.

(211) TATE 1948 - Missed 0.4 mm. 2 cuts. Identification one photograph was poor.

(218) ROT 1910 - Missed 0.6 mm. (Same as former plot) Identification doubtful.

(220) HORN 1910 - Missed 0.6 mm. (Same as former plot) Identification doubtful.

(192) KIT 1933 Sub. Sta. - Missed 0.6 mm. - Probably mis-identified. Another small point appears about 0.6 mm to the south would have fit position. Home station was held.

(258) HOGG 1927 - Missed 0.8 mm. - Station listed as pricked within 1 mm on photos - not very clear.

EVANS BAY LT 1955 - Missed 0.6 mm. - 2 Rays - Photos not clear, field pricking doubtful.

#### 24. SUPPLEMENTAL DATA

See original report.

#### 25. PHOTOGRAPHY

See original report.

#### SKETCH AND FORM M-2388-12 CONTROL STATION DATA

A sketch appended. Forms M-2388-12 are filed with respective descriptive reports.

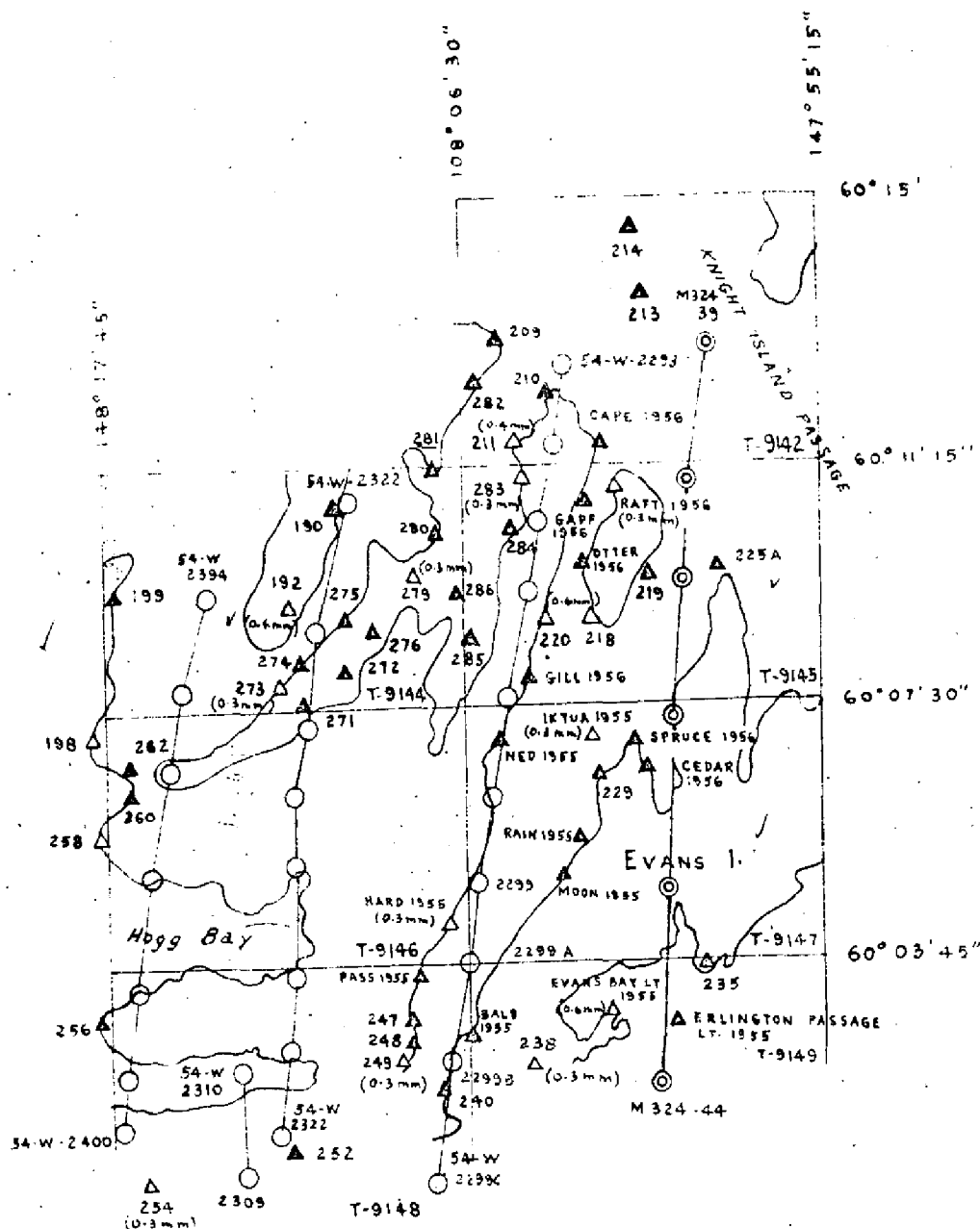
Submitted by  
R. L. Sugden

*R. L. Sugden*

Approved:

*Everett H. Ramey*

Everett H. Ramey  
Chief, Graphic Compilation Unit



PHOTOGRAMMETRIC PLOT SKETCH  
 PROJ-6152 PRINCE WM. SD.

SCALE 1:10,000

DEC 1957

KEY TO NUMBERED STATIONS

- 209 - PISA 1948
- 260 - FLAT 1948
- 258 - HOGG 1927
- 235 - SHUN 1927
- 238 - EVANS 1905
- 240 - ISLE 1910
- 247 - SAND 1910
- 246 - PED 1910
- 249 - OFF 1910
- 252 - TOP Z 1927
- 254 - ROCK (ROCK 2) 1927
- 286 - SWAN 1927
- or names of other numbered stations see original report.

▲ STATION HELD

△ STATION NOT HELD

○ U.S.C. & G.S. "W" CAMERA PHOTOGRAPHS

◎ AIR FORCE PHOTOGRAPHS - Series M-324



MAP T-9149

PROJECT NO. Ph-152

SCALE OF MAP 1:10,000

SCALE FACTOR 1.0

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\mu$ -COORDINATE LONGITUDE OR $x$ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
Latouche Community Club, Flag Pole, 1927	VI 98	1927	60-03-13.64	East of Sheet		422.1 (1434.8)	
			147-54-01.64			25.4 (903.1)	
Sleepy, 1933	VI 288	"	60-04-09.750	East of Sheet		301.8 (1555.1)	
Latouche Hotel S.W. Gable, 1927	VI 98	"	147-49-29.148			450.9 (477.3)	
Latouche S.W. Radio Tower, 1927	VI 98	"	60-03-19.51	East of Sheet		603.8 (1253.1)	
Elev. 2063 ft. Summit, 1905	VI 90	"	147-53-53.64			830.0 (98.5)	
			60-03-06.355	East of Sheet		196.7 (1660.2)	
			147-54-22.544			348.9 (579.7)	
			60-02-15.479	East of Sheet		479.1 (1377.8)	
			147-52-39.421			610.4 (318.6)	
Shun, 1927	VI 98	"	60-03-39.029			1207.9 (649.0)	
			147-58-55.181			853.8 (74.6)	
			60-03-06.81			210.8 (1646.1)	
Red, 1927	VI 98	"	147-59-13.20			204.3 (724.3)	
BEN?			60-03-31.931			988.2 (868.7)	
Ten, 1927	VI 98	"	148-02-57.419			888.4 (40.0)	
			60-02-10.441			323.1 (1533.8)	
Evans, 1905	VI 90	"	148-04-41.129			636.8 (292.3)	
			60-03-33.364			1032.6 (824.3)	
Hek, 1910	VI 275	"	148-06-21.467			332.2 (596.2)	
Latouche, High Peak, 1905	VI 295	"	59-59-04.84	Southeast of Sheet		149.8 (1707.1)	
			147-54-26.10			404.8 (525.7)	
							19

1 FT. = 3048006 METER

COMPUTED BY: G. O. DeMarr

DATE 15 March 1955

CHECKED BY: G. Ambury

DATE 16 March 1955

M-2388-12





MAP T- 9149

PROJECT NO. PH-152

SCALE OF MAP 1:10,000...

SCALE FACTOR:

[illegible]

I FT. = 3048006 METER COMPUTED BY: R. Sugden	DATE: October 1957 CHECKED BY: E. Ramey	DATE: October 1957
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## COMPILATION REPORT (PRELIMINARY)

T-9146, T-9147, T-9148

T-9149, T-9150, T-9151

31. DELINEATION:

Shoreline and foreshore features were delineated on the manuscripts from office stereoscopic interpretation only.

Features shown were first drawn on a piece of vinylite superimposed on the photograph with the most nearly true scale. Graphic methods were then used to compile and delineate the MHWL and to adjust the planimetry to manuscript scale by holding to compilation points of near-sea-level elevation.

The wooded nature of these islands and the three-and four-time enlargement of the photographs are factors which prevent a complete symbolization of the MHWL and offshore features. The displacement of the trees causes overhang, and shadows are also a deterrent in properly identifying horizontal control alongshore. Consequently, more use is made of the dashed approximate shoreline symbol than is desired. Due to the fact that the photography was flown at nearly half-tide with the W-camera coverage, much of the shallow areas alongshore show as being close to the approximate Low Water line and have been so symbolized in preference to the dashed shallow line symbol. It should be verified before charting.

32. CONTROL:

Only two field-identified control stations were held. All other control was office identified (see radial plot report). The two field identified stations fall outside (north of) the manuscripts covered by this report.

33. SUPPLEMENTAL DATA:

See radial plot report for planetable topographic surveys which were used as an aid in office identifying control and delineating the shoreline and foreshore features.

34. CONTOURS AND DRAINAGE:

Not applicable.

35. SHORELINE AND ALONGSHORE DETAILS:

The shoreline and alongshore features were delineated from office interpretation of the photographs. In regard to the interpretation of the MHWL, it should be noted that the photographs were taken at approximately half tide, the range of tide being 12 feet. Several fairly definite lines alongshore are visible on the photographs. The line judged most likely to be the MHWL was chosen and the compilers made a consistent effort to delineate this line on the manuscripts.

Wider use was made of the low-water line symbol than is generally the case on preliminary manuscripts. The horizontal position of the low-water line is questionable due to the range of tide and time of photography. For the same reason, many of the small offshore rocks may be incorrectly symbolized for lack of reference data.

There is probably ambiguity in the use of the ledge and boulder beach symbol. However, an attempt was made to reserve the ledge symbol for the sheet rock ledge-type formation.

The MHWL shown with the approximate MHWL symbol is thought to be fairly accurate in relation to the other details on the manuscripts as regard to horizontal position and general configuration. Because of the tree overhang and heavy shadow, field inspection is particularly needed in these areas.

36. OFFSHORE FEATURES:

T-9146

Office interpretation of offshore details is subject to field verification by the hydrographic party. All visible rocks have been shown, and reference to old topographic surveys and to the nautical charts were an aid in the attempt to identify and locate isolated rocks. Not all of them could be seen on this photography, and the compiler has tried to locate only those with a definite image.

37. LANDMARKS AND AIDS:

T-9149

Two lights shown on Nautical Chart 8523 were searched for. Evans Bay Light on the north end of the peninsula, south side of Sawmill Bay, could not be identified. Elrington Passage Light on the island west of Bettles Island was identified and pricked on two photos. As the two cuts were strong and scale excellent the position of the light is believed to be good. G.P.: 60° 02' (1492m) 148° 00' (500m).

In the area of San Juan and Port Ashton tanks of possible landmark value were delineated. The tank delineated at San Juan agrees favorably with landmark position shown on Chart 8523. At Port Ashton the tanks, as shown on the manuscript, do not agree with the position on the chart.

T-9150

Evans Island Light on the southeast shore of Evans Island was searched for but could not be identified on the photos.

38. CONTROL FOR FUTURE SURVEYS:

A set of office prints were prepared for the use of the hydrographic party in establishing photo-hydro stations in accordance with Photogrammetry Instructions No. 45.

39. JUNCTIONS:

Junctions were effected on all sides of these manuscripts, except on the north of T-9146 and T-9147 where the junction may not agree with the Advance Manuscripts which are in progress on T-9144 and T-9145.

40. HORIZONTAL AND VERTICAL ACCURACY:

See Paragraph 22, Method, of the radial plot report.

Note: Control stations Slide, 1927 (T-8148) and Con, 1927 (T-9150) were not used in controlling the radial plot. During compilation it was noted that their plotted positions fall on the delineated positions of small offshore rocks, affording a good field horizontal accuracy check in the event the stations are recoverable.

Inasmuch as the time and date of the Air Force photography was unknown, a comparison was made with the adjoining photography and it was concluded that the stage of tide was near high water. It is, therefore, possible that the shoreline is of less accuracy where these photographs were used for delineation.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with USGS Quadrangles Blying Sound D-3, Blying Sound D-4, Seward A-3, and Seward A-4, during compilation. Due to scale, these manuscripts are of better detail and will supersede the quadrangles when the horizontal accuracy is verified by forthcoming field inspection in 1955.

47. COMPARISON WITH NAUTICAL CHARTS:

All manuscripts were compared with Nautical Chart No. 8523, scale 1:40,000, published January 1935, corrected to July 1951.

T-9146

Chart 8523 shows a rock awash at  $60^{\circ} 04' / 143^{\circ} 15.5'$  which could not be found on the photographs. All other charted rocks within the limits of this manuscript were located.

T-9147

Not all of the offshore rocks could be located between the small islands just south of Guquak Bay. The foul ground symbol is shown to indicate the danger area.

Several rocks offshore from the peninsula on Evans Island, northeast of Iktua Rocks, were not visible on these photographs and are not located.

T-9149

Numerous offshore rocks awash shown on Chart 8523 around Bettles Island, in Sawmill Bay, were searched for and could not be identified. The bridge and road shown on the chart at Horseshoe Bay, on the west side of Latouche Island, is non-existent.

T-9150

The rock awash just offshore on the south side of North Twin Bay cannot be seen on this photography.

- 4 -

48. GEOGRAPHIC NAMEST-9146

PT. WATERS  
BAINBRIDGE PASSAGE  
HOGG PT.  
HOGG BAY  
BAINBRIDGE ISLAND  
PRINCE OF WALES PASSAGE

T-9147

BAINBRIDGE ISLAND  
PRINCE OF WALES PASSAGE  
GUGUAK BAY  
IKTUA ROCKS  
SHELTER BAY  
EVANS ISLAND  
CRAB BAY  
JOHNSON COVE  
LATOUCHE PASSAGE  
CRAB BAY (SETTLEMENT)  
PORT BENNY "  
PIKUEWILUK PT.  
GUGUAK PT.

T-9148

BAINBRIDGE ISLAND  
PRINCE OF WALES PASSAGE  
EVANS ISLAND  
ALUKLIK BAY  
SQUIRREL BAY  
SWANSON BAY  
SWANSON PT. ) TAB  
PT. PIKE ) (T-9148  
PORT BAINBRIDGE) EXTENDED)  
PROCESSION ROCKS  
HOGG BAY  
AMERK PT.

T-9149

EVANS ISLAND  
ELRINGTON PASSAGE  
SAWMILL BAY  
PRINCE OF WALES PASSAGE  
LATOUCHE PASSAGE  
LATOUCHE ISLAND  
HORSESHOE BAY  
BETTLES ISLAND  
SAN JUAN  
PORT ASHTON  
ELRINGTON ISLAND

T-9150

ELRINGTON ISLAND  
ELRINGTON PASSAGE  
EVANS ISLAND  
PORT BAINBRIDGE  
NORTH TWIN BAY  
SOUTH TWIN BAY  
PT. ELRINGTON  
LOMETREE PT.  
SQUIRREL BAY

T-9151

ELRINGTON ISLAND  
ELRINGTON PASSAGE  
EVANS ISLAND

Approved by:

Submitted by:

Roscoe J. French  
Roscoe J. French  
Supervisory Cartographer

Samuel G. Blankenbaker  
Samuel G. Blankenbaker  
Cartographer

## SUPPLEMENT TO COMPILATION REPORT

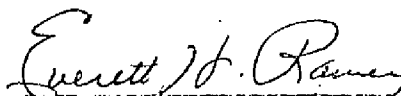
Surveys T-9148 through T-9151

Field work in 1955 included the identification of existing triangulation stations and the establishment of some new ones. These stations are listed in the Photogrammetric Plot Report for these surveys which is part of this descriptive report.

New bases at a scale of 1:10000 were prepared for use in the relocation of photo-centers and pass points by radial plot methods. The general shift in datum between this plot and the preliminary plot was small. Areas which were recompiled differed from the preliminary positions as great as approximately 20 meters.

Because most areas were in agreement in position with the preliminary manuscripts, no new manuscripts were prepared. The preliminary manuscripts were corrected where position shifts or errors were indicated. All changes are shown in red. Also segments of shoreline on T-9148 and T-9150 which were not compiled on the preliminary manuscripts are shown on these surveys. Surveys T-9148 and T-9150 are classed as "Incomplete" until complete shoreline inspection is accomplished; T-9149 and T-9151 are classed as "Preliminary".

Submitted:



Everett H. Ramey

13 July 1956

SUPPLEMENT TO COMPILATION REPORT FOR T-9149  
December 19~~49~~ 57 ? CMB

35. SHORELINE AND ALONGSHORE DETAIL

The shoreline in the areas of Sow Mill Bay and northwestern Elrington Passage of Evans Island was revised to effect a shift in datum of approx. 0.5 mm resulting from a new photogrammetric plot for this area. A few offshore features were added to the manuscript in accordance with field inspection notes.

For further discussion of the datum shift see Photogrammetric Plot Report- Supp. No. 2 for T-9138 through T-9147 filed as part of the Descriptive Report for T-9144.

Henri Lucas



October 19, 1970

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

PH-152 (Alaska)

T-9149

Bettles Island

Chicken Island

Elrington Island

Elrington Passage

Evans Island

Horseshoe Bay

Horseshoe Bay (locality)

Latouche Island

Latouche Passage

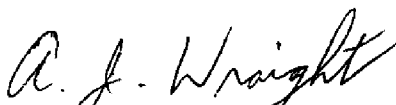
Port Ashton (village)

Port San Juan (locality)

Prince of Wales Passage

Sawmill Bay

Approved by:

A. Joseph Wraight  
Chief Geographer

Prepared by:

Frank W. Pickett  
Cartographic Technician

FORM 1002(T-2) PHOTOGRAMMETRIC OFFICE REVIEW

MAP T-9149

PROJECT PH-152

No Form 1002(T-2) was available at the time of final review and none is bound with this Descriptive Report.

## REVIEW REPORT T-9149

## SHORELINE

FEBRUARY 18, 1971

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print, (pages 33 through 39 ), with differences noted in Items 62 through 65 is bound with this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with Survey No. T-4316, scale 1:10,000, dated May and July 1927. Differences between T-4316 and T-9149 are shown in blue on the comparison print.

T-4316 covers only part of T-9149 - Sawmill Bay and the north end of Elrington Passage. Shoreline compares favorably in Sawmill Bay, but large errors in placement are apparent in the Evans Island and Elrington Island shoreline at the north end of Elrington Passage.

Offshore features shown in blue on the comparison print that do not match a mapped feature on T-9149 were not visible on the photographs.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with U.S.G.S. Quadrangle SEWARD (A-3), ALASKA, scale 1:63,360, dated 1952. Differences between this map and T-9149 are shown in brown on the comparison print.

Several rocks are shown on SEWARD (A-3) that were not visible on the photographs and were not mapped on T-9149. The most significant, a submerged rock, is at latitude 60°03.0', longitude 148°03.2'.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with an unverified copy of Survey No. H-8205, scale 1:10,000, dated 1955, and with a verified copy of Survey No. H-8913, scale 1:5,000, dated 1966. Differences between H-8913 and T-9149 are shown in purple on the comparison print. No significant differences with H-8205 were noted.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 8523, scale 1:40,000, 4th edition, dated October 10, 1966. Differences between Chart 8523 and T-9149 are shown in red on the comparison print.

The only differences noted on the comparison print are numerous rocks and three dolphins. These were not visible on the photographs.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

Due to the lack of triangulation to control this map south of latitude 60°02'30", and the lack of field inspection of the shoreline, this map is classified as PRELIMINARY and does not comply with the National Standards for Map Accuracy.

Reviewed by:

*Charles H. Bishop*

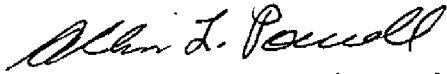
Charles H. Bishop  
Cartographer  
February 18, 1971

Approved for forwarding:

*Melvin J. Umbach*

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

Approved:

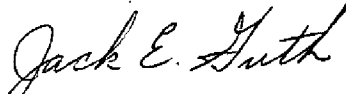


Allen L. Powell, RADM, NOAA  
Director, Atlantic Marine Center

Approved:



Chief, Photogrammetric Branch

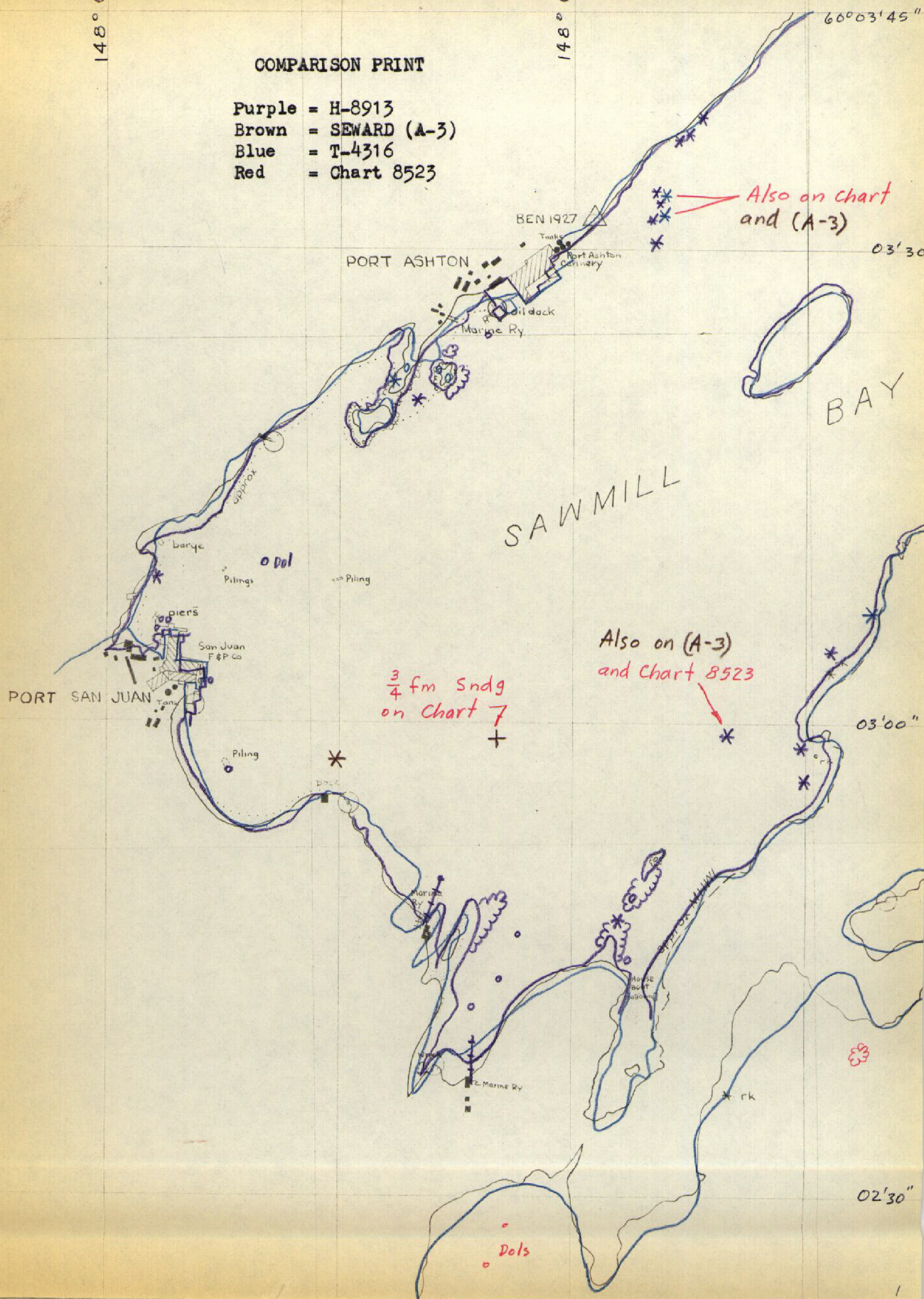


Chief, Photogrammetry Division



## COMPARISON PRINT

Purple = H-8913  
 Brown = SEWARD (A-3)  
 Blue = T-4316  
 Red = Chart 8523





148° 02'

148° 01'

60° 03' 45"

03' 30"

## COMPARISON PRINT

Purple = H-8913  
 Brown = SEWARD (A-3)  
 Blue = T-4316  
 Red = Chart 8523

BAY

EVANS GAY LT  
1955

chart 8523 shows  
 2 bare rocks

Also on (A-3)  
 and Chart 8523

Islet on chart  
 Rk aw on (A-3)

Rk aw. on chart  
 and A-3

Chart 8523 shows  
 islands connected

Also on T-4316

Bare rk on chart

ELRINGTON PAS

60° 02' 30"



148° 00'

JOINS SURVEY T-9147

59'

60° 03' 45" \*



SHUN 1927

03' 30"

## COMPARISON PRINT

Purple = H-8913  
 Blue = T-4316  
 Red = Chart 8523

*Rks and ledges  
 also on Chart 8523*

RED 1927

approx MHWL

BETTLES ISLAND

60° 03'

ELRINGTON PASSAGE LT

*Also on Chart 8523*

02' 30"

148° 00'

59' 30"

147° 59'



0  
Dol

Also on Chart 8523

60° 02'

Also on (A-3)  
and  
Chart 8523

COMPARISON PRINT

Purple = H-8913  
Blue = T-4316  
Red = Chart 8523

PASSAGE

01' 30"

03' 00"

02' 30"

148° 02'

01' 00"

4

STON





44 VV M 324

## COMPARISON PRINT

Purple = H-8913

Blue = T-4316

60°02'

01'30"

approx MHWL

ISLAND

01' 00"

00' 30"

148° 00"

59' 30" 3



Also on  
chart 8523



60° 02'

COMPARISON PRINT

Brown = SEWARD (A-3)

Red = Chart 8523

01' 30"

HORSESHOE  
BAY

Also on  
Chart 8523



Horseshoe  
Bay

60° 01'

56' 30"

147° 56'

55' 30"



LATOUCHE

Also on  
Chart 8523

## COMPARISON PRINT

Brown = SEWARD (A-3)

Red = Chart 8523

Also on Chart 8523

00'30"

60°00'00"

148°00'

147°59'

147°58'

NOTE: Unlabeled circles are photogrammetric  
plot points; not map features

## PRELIMINARY MANUSCRIPT

This manuscript has been prepared without prior field identification of control or field inspection. The manuscript will be completely recompiled after receipt of field identification of control and field inspection data. The final manuscript will show additional information and probably will change the geographic position of many of the details shown hereon.



