

10393

ORIGINAL

10393

<p>Form 504</p> <p>U. S. DEPARTMENT OF COMMERCE</p> <p>COAST AND GEODETIC SURVEY</p> <p><b>DESCRIPTIVE REPORT</b></p>	
Type of Survey	SHORELINE (PHOTOGRAMMETRIC)
Field No.	Office No. T-10393
<b>LOCALITY</b>	
State	ALASKA
General locality	SUMNER STRAIT
Locality	WARREN ISLAND - NORTH PART
<p><u>1953-1956</u></p> <p><b>CHIEF OF PARTY</b>  G.A. Nelson, Chief of Field Party  E.H. Kirsch, Baltimore District Office</p>	
<b>LIBRARY &amp; ARCHIVES</b>	
DATE	



DESCRIPTIVE REPORT - DATA RECORD

T-10393

FIELD INSPECTION BY (II): P.A. Stark, C.W. Clark (CONTROL OPERATIONS) J.P. Randall, A.M. Legako (CONTROL & INSPECTION OPERATIONS)	DATE: 1955 Field season 1956 Field season
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MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  
Office interpretation of July 1953 photography verified by field inspection (in some areas) in 1956.  
A  
EAST SIDE OF WARREN ISLAND

PROJECTION AND GRIDS RULED BY (IV): A. Riley	DATE 11/10/55
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PROJECTION AND GRIDS CHECKED BY (IV): A. Riley	DATE 11/10/55
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CONTROL PLOTTED BY (III): F.M. Wisiecki B. Kurs	DATE 12/5/55 11/30/55
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CONTROL CHECKED BY (III): A. Queen	DATE 12/14/55
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RADIAL PLOT <del>BY STEREOSCOPIC CONTROL</del> EXTENSION BY (III): E.L. Williams	DATE * SEE BELOW 1/16/56
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STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	CONTOURS	DATE

MANUSCRIPT DELINEATED BY (III): J.Y. Councill	DATE * SEE BELOW 2/6/56
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SCRIBING BY (III):	DATE
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PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. Glaser	DATE 2/14/56
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REMARKS:  
\* REPLOTTED IN JAN 1957 AND SUBSEQUENTLY RECOMPILED. REFER TO PAGE 6A.

DESCRIPTIVE REPORT - DATA RECORD

T-10393

CAMERA (KIND OR SOURCE) (III):

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
41298 thru 41301	7-25-53	1240	1:10,000	9.2' above MLLW
41307 thru 41310	7-25-53	1240	1:10,000	9.2' above MLLW

TIDE (III) FROM PREDICTED TABLES DIURNAL

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Sitka, Alaska		7.7	9.9
COORDINATE STATION: Pole Anchorage		9.1	11.3
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, Atlantic Marine Center

DATE: Nov. 1964

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 2

RECOVERED: 2

IDENTIFIED: 2

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

RECOVERED: 0

IDENTIFIED: 0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

0

REMARKS:

T-10393

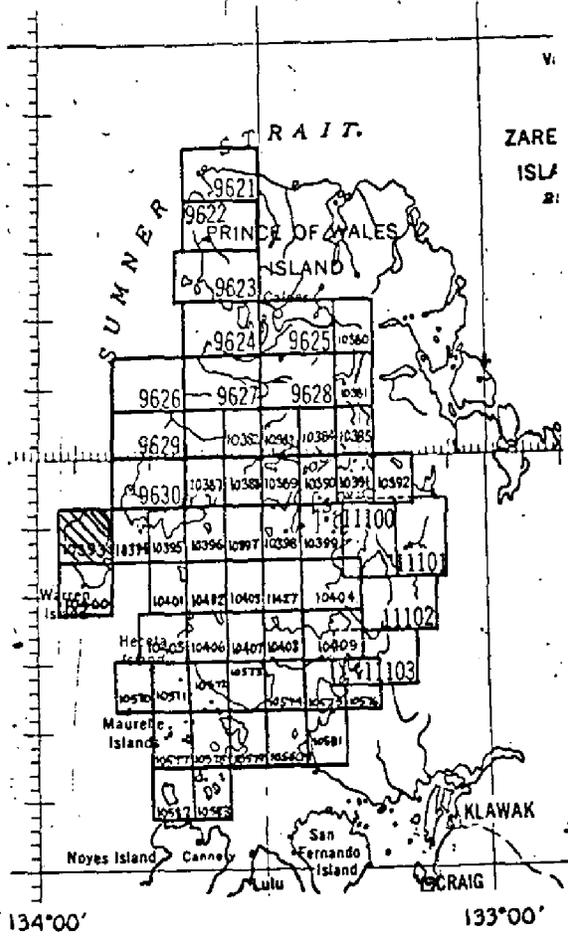
COMPILATION RECORD	COMPLETION DATE	REMARKS
Compiled	Feb. 1956	<i>SUPERSEDED</i>
<i>RECOMPILED - REFER TO PAGE CA</i>		<i>SUPERSEDED</i>
Final Review	Nov. 1968	

# SHORELINE MAPPING PROJECT PH- 87

5

Prince of Wales Island, Alaska

56°30'  
56°00'  
55°30'



## Project Ph-87 Official Mileage for Cost Accounts

Sheet No.	Area Sq. Mi.	Lin. Mi. Shoreline
9621	12	10
9622	16	11
9623	15	7
9624	17	12
9625	21	11
9626	4	5
9627	15	15
9628	14	2
9629	5	6
9630	7	6
11100	32	16
11101	9	8
11102	18	10
11103	16	15
10380	6	4
10381	5	10
10382	8	2
10383	6	8
10384	7	5
10385	4	8
10386	9	1
10387	6	7
10388	3	6
10389	7	12
10390	6	16
10391	4	12
10392	8	7
10393	12	10
10394	2	4
10395	5	8
10396	2	4
10397	1	1
10398	3	5
10399	4	11
10400	6	8
10401	1	2
10402	2	3
10403	3	6
11427	1	1
10404	5	10
10405	2	2
10406	8	1
10407	8	2
10408	5	7
10409	10	10

10570	1	1
10571	1	1
10572	5	6
10573	8	2
10574	3	4
10575	2	1
10576	7	2
10577	1	1
10578	2	2
10579	1	6
10580	2	2
10581	12	9
10582	2	6
10583	2	5

TOTAL      422      378

6A

HORIZONTAL CONTROL WAS IDENTIFIED IN 1955. A RADIAL PLOT WAS ASSEMBLED IN JAN. 1956, AND THE MANUSCRIPT (INCOMPLETE) COMPILED IN FEB. 1956. DURING THE SUMMER OF 1956 MAP \* DETAILS WERE EDITED & CONTROL WAS REIDENTIFIED. A NEW PLOT WAS ASSEMBLED IN JAN. 1957.

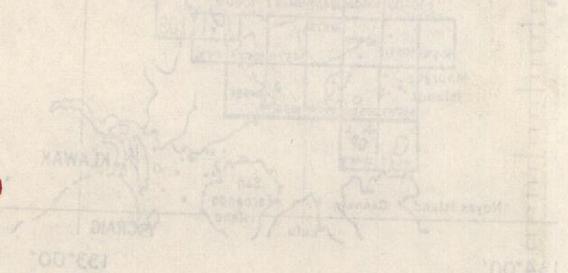
NO REPORT EXISTS TO ACCOUNT FOR RECOMPILATION - REFLECTING THE NEW PLOT; HOWEVER, PASS POINT DOTS ON THE MANUSCRIPT ACCOUNT FOR THE CHANGES IN PASS POINT POSITIONS INDICATED IN THE 1957 PLOT REPORT.

THE DESCRIPTIVE REPORT FOR UNREVIEWED HYDRO SURVEY H-8112, 1960 INDICATES USE OF THE "INCOMPLETE" MANUSCRIPT - ITEM G, PAGE 3. THE PHOTOGRAMMETRIC SURVEY REVIEW REPORT (ITEM G4, PAGE 29) STATES THAT THE HYDRO AND TOPO SURVEYS ARE IN AGREEMENT. A NOTE HAS BEEN INSERTED IN THE HYDRO SURVEY DESCRIPTIVE REPORT CALLING ATTENTION TO THE FINAL PHOTOGRAMMETRIC MANUSCRIPT.

USE OF AN "ADVANCE" COPY OF THE MANUSCRIPT IS ACCOUNTED FOR IN THE DESCRIPTIVE REPORT FOR H-8286, DATED 1956.

M.B.

\* EAST SIDE OF WARREN ISLAND (ONLY)



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-10393

Shoreline survey T-10393 is one of 58 similar surveys in project PH-87. It covers the northern part of Warren Island. The primary purpose of the survey was to provide new shoreline for nautical charts and photo-hydro support data for hydrographic surveys.

From the data available at the time of final review it appears that this survey was originally compiled as a preliminary manuscript. Identification of horizontal control was accomplished in 1955 and the final radial plot assembled. In 1956 field inspection was accomplished, however; it is believed that this inspection was limited to the east side of the island along Warren Channel. All of the field photographs have been lost. There is no Field Inspection Report or other data to indicate that the west side of the island was ever field inspected or field edited. The shoreline along the east side of Warren Island was evidently corrected on the manuscript from the field inspection notes of 1956. The manuscript was received in final review classified as an Advance Manuscript.

*\* See Page  
6A  
←*

Compilation was at 1:10,000 scale by graphic methods using the nine-lens photography of July 1953. A cronaflex copy of the manuscript, blue-line tracing, ozalids and photographs were provided for transfer of the shoreline to the boat sheet, location of photo-hydro signals and field edit use.

The manuscript was a vinylite sheet 3 3/4 minutes in latitude by 7 minutes in longitude which was reproduced on cronaflex. One cronaflex positive and one negative are forwarded for record and registry.

FIELD INSPECTION REPORT

FOR

WARREN CHANNEL AND DAVIDSON INLET

S. E. ALASKA

AUGUST 1956

T10393-396

T10400-401

2. AREAL FIELD INSPECTION:

The area covered by this report lies between Warren Island and Green Island on the south side of Kosciusko Island.

Rock outcroppings are, in general, partially metamorphised limestones and shales. Limestone outcrops are distinguished by numerous solution holes which give them a pocked appearance, while the shales have maintained their stratification.

A black scale covers all along shore rock outcroppings and boulders, and shows as a distinctive black line. This scale varies in width according to the slope of the shore but is remarkably consistent in vertical span, beginning as it does approximately at mean high water and extending to an elevation of from four to six feet.

The only cultural features noted were two small trappers cabins, one of which was located on the S. E. Side of Warren Island (Photo - 41306), the other on the north side of Straw Pass (Photo - 41327). <sup>05</sup>

Shoal and kelp areas were generally obvious, and were noted on the photographs. Few attempts were made to delete or insert mistaken identifications on Manuscripts T-10394 - 10395 as the foul areas were so large and complex that delineation could be made to better advantage by the hydrographer.

Only control station identifications were made on the north, south and

west sides of Warren Island.

The area covered by standard nine-lens photographs (1:10,000) gave adequate coverage except in areas obscured by trees and glare.

3, 4, 5:

Not applicable.

6. WOODLAND COVER:

Large lumbering operations on Kosciusko Island have left large patches, covered with brush, in the dense coniferous forest. Other open areas are muskeg.

7. SHORELINE AND ALONGSHORE FEATURES:

(a) Shoreline was inspected from the beach at photo-hydro signal locations and from the boat in all other locations.

The mean high water line lies at the bottom of the black band which runs alongshore below the treeline.

(b) The low water line was not delineated but at times of low water distances, directions and times were noted on the backs of the photographs.

(c) The foreshore consists of rock and boulders with a few areas of sand and gravel, at the head of bights.

(d) No bluffs or cliffs are noteworthy other than Whale Head which is already noted on charts.

(e) None of the fish traps shown are in existence.

8. OFFSHORE FEATURES:

All apparent offshore features were visited but in most cases a landing was not made. Most rocks and shoals are clearly defined. The large foul area on the north side of False Cove, Warren Island, and the very large foul area north of Black Rock, Warren Channel, were delineated to better

advantage and more accurately by the hydrographer. Rocks and shoals were marked with times, dates and heights. All heights were estimated.

9, 10:

Not applicable.

11. OTHER CONTROL:

The following list of hydrographic signals and recoverable topographic stations shows method of location. All necessary information is on the backs of the photographs.

<u>NAME</u>	<u>METHOD LOCATED</u>	<u>PHOTO NO.</u>	<u>MANUSCRIPT NO.</u>
JUT	Photo direct	41306	T-10400
KIM	" "	41307	"
LAD	" "	41306	"
MAX	" "	"	"
NIP	" "	41305	"
SID	Distance and angle	41306	"
ALL	Photo direct	41309	T-10393
BED	" "	"	"
DAN	" "	41308	"
DIG	" "	41307	"
EAR	" "	"	"
EVA	" "	"	"
FAD	" "	"	"
FOG	" "	"	"
GAD	" "	"	"
GAR	Distance and angle	"	"
GUY	Photo direct	"	"
HEX	" "	"	"

<u>NAME</u>	<u>METHOD LOCATED</u>	<u>PHOTO NO.</u>	<u>MANUSCRIPT NO.</u>
HIP	Photo direct	41307	T-10393
ICE	" "	41306	"
MARY(1956)	Distance and angle	"	"
RAG	Photo direct	41307	"
ROSE(1956)	" "	41309	"
AMY	" "	41315	T-10394
BEE	" "	"	"
BEL	" "	"	"
BEN	" "	"	"
CAD	" "	"	"
DAY	" "	41316	"
FOR	" "	41315	"
FOX	" "	41316	"
FRY	" "	41317	"
HER	" "	"	"
KAY	Distance and angle	41316	"
MAN	Photo direct	41317	"
MAY	" "	41315	"
MIS	" "	41316	"
NOT	" "	41315	"
NYN	" "	"	"
PAL	" "	"	"
PEA	" "	41316	"
RIO	Distance and angle	"	"
RIP	Photo direct	"	"
RUG	" "	"	"

<u>NAME</u>	<u>METHOD LOCATED</u>	<u>PHOTO NO.</u>	<u>MANUSCRIPT NO.</u>
SAN	Photo direct	41316	T-10394
SIP	" "	"	"
SIS	" "	"	"
STY	" "	"	"
THE	" "	41315	"
THO	" "	"	"
TIM	" "	41316	"
TIS	" "	41315	"
TOL	" "	"	"
TOY	Distance and angle	41316	"
TRU	Photo direct	41315	"
WAX	Distance and angle	41316	"
WHO	Photo direct	41315	"
YAM	" "	"	"
ZOO	" "	"	"
ANN	Photo direct	41326	T-10395
BES	" "	OFF 41328	"
COO	Distance and angle	" "	"
DOL	Photo direct	" "	"
EDD	" "	" "	"
FEE	" "	" "	"
FIE	Distance and angle	" "	"
FUM	" " "	" "	"
GAG	Photo direct	41316	"
GAS	" "	OFF 41328	"
HAD	" "	" 41326	"
HAM	Distance and angle	41448	"

<u>NAME</u>	<u>METHOD LOCATED</u>	<u>PHOTO NO.</u>	<u>MANUSCRIPT NO.</u>
HAT	Photo direct	41327	T-10395
HIL	" "	41447	"
HOE	" "	41326	"
IDA	" "	41448	"
INK	" "	41447	"
ION	Distance and angle	41326	"
IRK	" " "	"	"
JAP	" " "	41327	"
JOK	" " "	"	"
KED	" " "	"	"
KILL 1956	Photo direct	41427	"
LAP	Distance and angle	41327	"
LAY	Photo direct	"	"
LEO	" "	"	"
LID	" "	"	"
MAL	Distance and angle	"	"
MUG	" " "	"	"
MIT	" " "	"	"
NAG	Photo direct	"	"
NAT	" "	41447	"
OAT	" "	"	"
OLD	Distance and angle	41327	"
PET	" " "	"	"
PHO	" " "	OFF 41328	"
RIG	Photo direct	41316	"
ROC	" "	OFF 41327	"
SKI	" "	" "	"

<u>NAME</u>	<u>METHOD LOCATED</u>	<u>PHOTO NO.</u>	<u>MANUSCRIPT NO.</u>
TIN	Photo direct	OFF 41327	T-10395
TOPO 1956	Distance and angle	OFF 41328	"
UNA	Photo direct	OFF 41327	"
WIG	" "	" "	"
GENERAL LAND OFFICE DISK	" "	41315	
ADD	Distance and angle	41451	T-10396
BAT	Photo direct	"	"
EEL	" "	41447	"
FAG	" "	"	"
FUN	" "	41427	"
GAM	" "	41447	"
JAB	" "	"	"
KID	" "	"	"
LEB	" "	"	"
MEN	" "	"	"
NOT	" "	41451	"
POT	" "	41447	"
RUT	" "	"	"
STU	Distance and angle	41451	"
TIP	Photo direct	41452	"
URP	" "	41453	"
ABE	" "	41325	T-10401
AXE	" "	"	"
BIG	" "	"	"
BUT	" "	"	"
CAR	" "	"	"
CAT	" "	41326	"

<u>NAME</u>	<u>METHOD LOCATED</u>	<u>PHOTO NO.</u>	<u>MANUSCRIPT NO.</u>
COD	Distance and angle	41325	T-10401
DAW	Photo direct	41326	"
DOG	" "	"	"
DUD	" "	"	"
EAT	" "	"	"
EGG	" "	"	"
EVE	" "	"	"
FED	" "	"	"
FID	Distance and angle	"	"
GET	Photo direct	"	"
VAL	" "	"	"
ZAG	" "	41319	"

12:

Not applicable.

13. GEOGRAPHIC NAMES:

A special report on Geographic Names will be forwarded at the close of the field season.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA:

(a) To be forwarded at a later date:

1. Hydrographic Sheet HO-1156
2. Hydrographic Descriptive Report - HO-1156
3. Tidal Data
4. Sounding records and fathograms

(b) Forwarded during this month:

1. Control station identification cards and topographic descriptive cards.
2. Blackline and blue-line manuscripts

T-10393 through T-10396

T-10400 through T-10401

3. Nine-lens office photographs

41298 - 41319

41325 - 41332

41441 - 41456

41480 - 41482

4. Nine-lens field photographs

41312 - 41318

41478 - 41479

41325 - 41327

41481 - 41482

41330 - 41333

41441 - 41444

41471

41447

15. NOTES TO THE COMPILER:

The shoreline as shown on these manuscripts was, with minor exceptions, quite accurate. The mean high water line is located at the bottom of the black band on rocks and reefs as mentioned in Section 7.

Numerous rocks must be deleted or inserted on manuscripts especially in the foul areas mentioned in Section 8.

No important jumps were noted in sounding lines and the location of office established control was very good.

*James P. Randall*

James P. Randall,  
Ensign, USC&GS

As stated above, the pricking of control for the radial plot and the delineation of shoreline on these manuscripts was considered to be excellent. Altho detail was transferred direct to boat sheets by holding the projection lines, no appreciable jumps were noted in sounding lines when using different

groups of signals to obtain positions.

This report is approved and forwarded.

*Robert A. Earle*

Robert A. Earle,  
CDR, USC&GS  
Comdg., Ship HODGSON

PHOTOGRAMMETRIC PLOT REPORT  
 Project 6087  
 Surveys T-9629, T-9630, T-10382,  
 T-10387, T-10388, T-10393  
 thru T-10396, T-10400 and  
 T-10401

SEE SUPPLEMENTARY  
 PLOT REPORT, PAGE  
 21

21. AREA COVERED

This radial plot covers the area of the surveys listed above except for the southeast corner of Survey T-10388 for which positions of pass points will be established after this plot is extended to the south and east.

In order to insure a junction with future plots, this plot was extended to reach control on surveys T-10402, T-10383, T-10389, T-10397, and T-10398.

The geographic area covered by these shoreline surveys encompasses the western and southern shorelines of Kosciusko Island from Ruins Point at the north to ToKeen Bay to the east. The islands just off these shores as well as Warren Island are included in the area.

22. METHOD - RADIAL PLOT

Map manuscripts:

Vinylite sheets with polyconic projections in black and U.T.M. Alaska grid in red at a scale of 1:10,000 were furnished by the Washington office for all surveys except T-9629 and T-9630. These two surveys had only the polyconic projection in black.

Base sheets were prepared in this office.

All control stations and substitute stations were plotted using the meter bar and beam compass.

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

Photographs:

All photographs used were nine-lens unmounted photographs at a scale of 1:10,000.

The sixty (60) photographs used in this plot, numbered as follows:

41298 thru 41319	41480 and 41481
41325 thru 41332	41687
41374 thru 41377	41483 and 41484
41441 thru 41455	41489 thru 41493
	41514 thru 41518

Templets:

Vinylite templets were made for all the prepared photographs using a master templet to correct for errors due to paper distortion and chamber displacements.

## 22. METHOD - RADIAL PLOT (cont'd)

### Closure and Adjustment to Control:

The radial plot was constructed on vinylite base sheets. Because no grid lines were ruled on manuscripts T-9629 and T-9630, some intersections of the polyconic projections were transferred to the base sheets. These common intersections were held in order to transfer the control. Control from the other map manuscripts was transferred to the base sheets by holding the grid lines.

The radial plot was laid starting with templates numbered 41474 thru 41477, the positions of which were already established on manuscript T-9626. No attempt was made to continue this flight of photographs from number 41477 southeasterly to photograph number 41481 at Davidson Inlet. The high elevations in the interior coupled with tilted photographs and conjugate centers lost in the thick, high trees would not lead to a rigid plot. The position for the center of photograph 41444 was not shown on the manuscript, chiefly because the photograph was not needed for compiling the necessary shoreline manuscripts and to some extent because the position might be weak.

After flight 41325 thru 41332 was laid, flights 41312 thru 41319, and 41305 thru 41311 were laid all holding to the identified control, where available. Flight 41298 thru 41304 along the west shore of Warren Island was the last flight laid on the western limits of this plot. This flight had no field identified control and was governed solely by control identified in this office from descriptions and by a few common pass points from flight 41305 thru 41311 to the east.

After the western portion of the plot was completed, the plot was extended to the east. Flight 41449 thru 41455, which was well controlled was laid first. In the next flight to the east, 41430 thru 41484, photograph 41482 was not included because of heavy clouds. Photograph 41687 was substituted. Because the substitute point for WOLF, 1903 was visible on only one photograph, the flight had to be extended south to FOX, 1903 which was office identified.

Flight 41489 thru 41492 was held to field identified control on the north end and to office identified control (MAR, 1913) on the south end of this flight.

Flight 41514 thru 41517 was laid last and held to field identified control stations PINK, 1903 and HOLBROOK PT.

A satisfactory plot was obtained and all of the shoreline on the surveys covered by this plot is well controlled, except for the western tip of Marble Island on survey T-10388, and the islands in the southern part of survey T-10395. It is felt that other plots to be laid as extensions of this plot will materially strengthen these areas.

## 22. METHOD - RADIAL PLOT (cont'd)

### Closure and Adjustment to Control: (cont'd)

Although a satisfactory plot was obtained, it should be stated, ~~however~~, that pass points in the interior, where extreme elevation would almost certainly cause difficulty with the intersections due to tilt, were avoided and only a few points on lakes and other less elevated features were selected as interior pass points. To offset this departure from established procedure, many more pass points along the shoreline than normally are used to lay a radial plot were selected. In most cases the shoreline pass points are about  $2\frac{1}{2}$  inches apart. This method seemed to give a tighter plot with apparently much less adjustment needed. This considerably lessened the time spent in actually laying the plot.

### Transfer of Points:

The map manuscripts were placed over the finished plot, oriented, and the position of all pass points and photograph centers then pricked on the manuscript.

## 23. ADEQUACY OF CONTROL

There was adequate control for a satisfactory radial plot for surveys T-9629, T-9630, T-10382, T-10387, and T-10394.

Substitute point WOLF, 1903 on survey T-10388 was not satisfactory in that the point selected in the field was visible on only one photograph. It is recommended that a new substitute station at or near the pass point pricked on photograph 41490 about 200 meters south of the station be established. An additional substitute station at MAR, 1913 would strengthen the plot in the area.

Of all the control identified in the field only sub pt. QUARTZ, 1903 could not be held in the plot. The radially plotted position is 1.3 mm northwest of the plotted position of the substitute station. It is possible that a ten (10) meter error was made in the measured distance. However, the identification of the nearest stations (STRAW, 1903 and BLACK, 1903) is thought to be weak, and it is quite possible QUARTZ, 1903 should have been held and the other stations let go. This could not be done at this time because they are the last stations identified at the southern end of the plot. If possible, SLAT, 1903 just to the east of QUARTZ, 1903 should be identified.

EDNA BUOY 2, 1946 was identified in this office. The radially plotted position is 0.8 mm. SE of the plotted position. It is assumed that the buoy has been shifted in position since 1946.

Additional control is needed in the southern portions of surveys T-10395 and T-10396. This is especially important because of the questionable identification of STRAW, 1903.

23. ADEQUACY OF CONTROL

The following stations in survey T-10395, should be identified: FAKE, 1903; and SIAT, 1903. The substitute station selected for STRAW, 1903 is not a good point, and if possible, another substitute station obtained there would help in relaying the plot for surveys T-10401 thru T-10403. For the same reason station ROUND, 1903 on survey T-10396 should also be identified.

For the two manuscripts (T-10393 and T-10400) covering Warren Island, almost all of the shoreline stations should be identified. The office identification of CAY, HIGH ROCK, 1922 is felt to be adequate; however, field identification would be desirable. Identification of any of the triangulation stations located on the many peaks in the interior of Warren Island is thought to be unnecessary for these shoreline surveys.

24. SUPPLEMENTAL DATA

None.

25. PHOTOGRAPHY

The photographic coverage and definition of photographs used in the plot were good. There were many clouds in the flight 41480 thru 41484, but photograph 41687 was used instead of 41482, to provide adequate coverage.

26. CONTROL STATION OFFICE NOTES

In order to clarify the situation in regard to control identification, "Control Station Office Note" cards are being submitted by this office for each office-identified station. On each card is a sketch of the area taken from the photograph showing the relative position of the pass point obtained in the radial plot to the apparent position on the photograph of the station. Also, a description cut from the published lists of descriptions is pasted to the card. It is felt this card should be of help to the field man in recovering and in identifying the triangulation stations. The sketch on this card is in most cases, quite generalized and a sketch made while the field man is actually at the station site showing the area in detail as it appears on the ground is much to be preferred.

Respectfully submitted  
16 February 1956

*E. L. Williams*  
E. L. Williams  
Carto. (Photo.)

SUPPLEMENTARY

PHOTOGRAMMETRIC PLOT REPORT  
Project 27070

Surveys T-10393 & T-10400

*NO SKETCH FOR THIS PLOT WAS FOUND.*

Control identified during the 1956 field season indicated the preliminary radial plot to be in error by about 0.7 mm. in the vicinity of stations WARREN 2, 1899 and BORLASE, 1922. A final radial plot was assembled, extending from ONAUG, 1937 to the west and south through stations WARREN 2, 1899 and BORLASE, 1922 to station WEST, 1915-16. The positions of the pass points and photograph centers in the area around BORLASE, 1922 were moved about 0.7 mm. to the south. The positions of the pass points on surveys T-10393 and T-10400 are now considered within the standards outlined in paragraph 3-.01 of the project instructions dated 13 November 1956.

*Refer to item 66, page 30*

Respectfully submitted  
2 January 1957

*E. L. Williams*

E. L. Williams  
Carto. (Photo.)

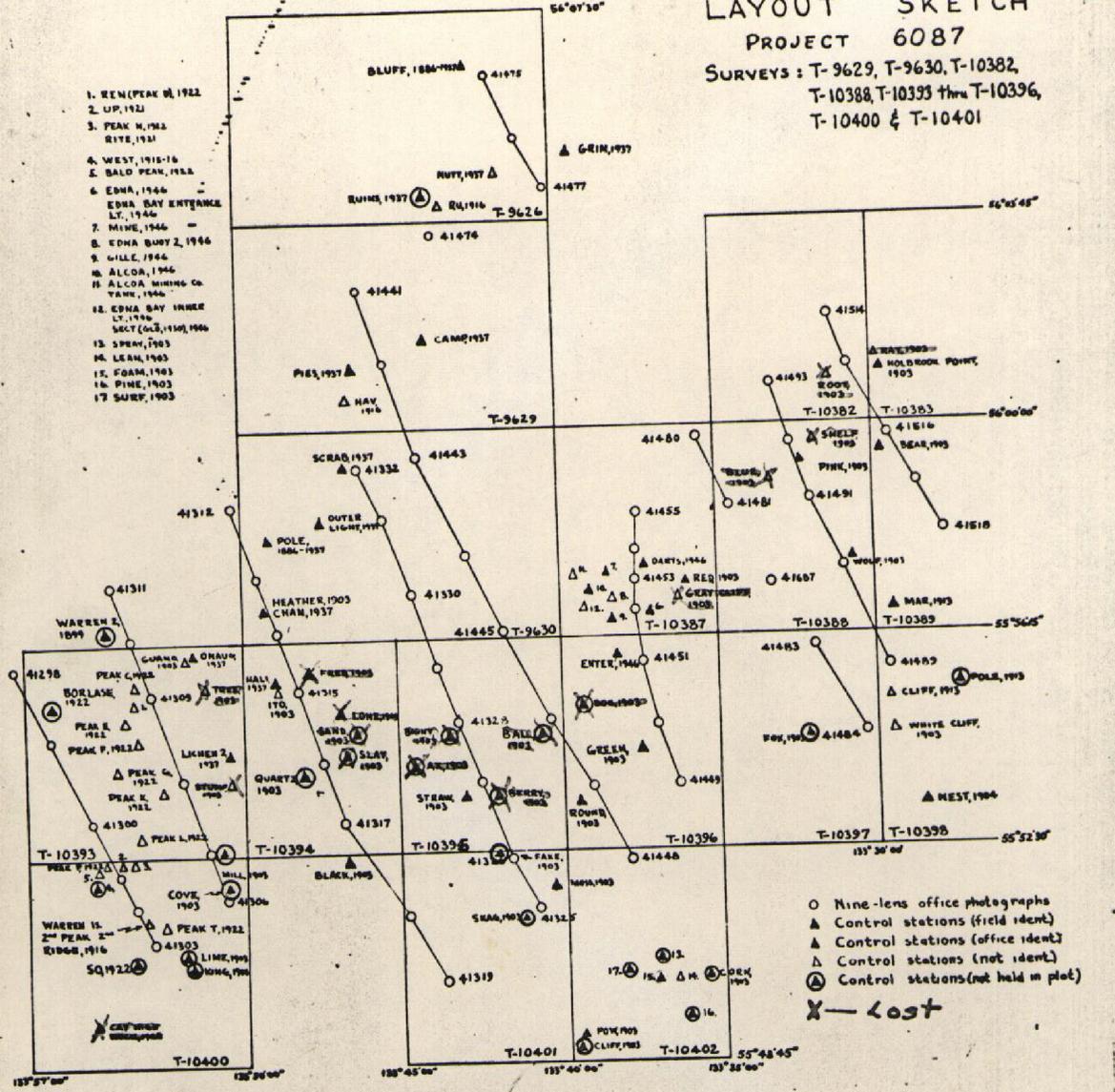
APPARENTLY NO SKETCH WAS FOUND FOR THE SUPPLEMENTARY PLOT, 22

A BETTER COPY OF THIS SKETCH IS INCLUDED IN THE DESCRIPTIVE REPORT FOR T-10394

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LAYOUT SKETCH  
PROJECT 6087

SURVEYS: T-9629, T-9630, T-10382,  
T-10388, T-10393 thru T-10396,  
T-10400 & T-10401



1. HEN (PEAK 0), 1922
2. UP, 1921
3. PEAK H, 1922
4. WEST, 1915-16
5. BALD PEAK, 1922
6. EDNA, 1946
7. MINE, 1946
8. EDNA BURT 2, 1946
9. GILL, 1946
10. ALCOA, 1946
11. ALCOA MINING CO. TANK, 1946
12. EDNA BAY INNER LT., 1946
13. SPRAW, 1903
14. LEAN, 1903
15. FOAM, 1903
16. PINE, 1903
17. SURF, 1903

- Nine-lens office photographs
- ▲ Control stations (field ident)
- △ Control stations (office ident)
- ⊙ Control stations (not ident)
- ⊕ Control stations (not held in plot)
- X - lost

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

MAP T. 10393 PROJECT NO. 6087 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		DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
			°	'	FORWARD	(BACK)		FORWARD	(BACK)	
WARREN 2, 1899-1923	G-609 p. 205	N.A. <del>1927</del> 1927	55	56	15.629			483.4	(1372.3)	
BORLASE, 1922	"	"	133	53	41.766			725.1	(316.5)	
	"	"	55	55	20.320			628.5	(1227.2)	
	"	"	133	55	59.921			1040.6	(1.4)	
GUANO, 1903	G-609 p. 288	"	55	55	55.909			1729.2	(126.5)	
	"	"	133	51	14.560			252.8	(788.9)	
ONAU, 1937	G-3581 p. 761	"	55	55	56.001			1732.0	(123.7)	
	"	"	133	51	14.056			244.0	(797.7)	
Sub. Pt. ONAU, 1937	"	"	55	55				1722.9	(132.8)	
	"	"	133	51				237.8	(803.9)	
PEAK C, 1922	G-609 p. 215	"	55	55	05.732			177.3	(1678.4)	
	"	"	133	53	14.911			259.0	(783.2)	
REN (PEAK D), 1922	G-609 p. 216	"	55	54	51.57			1595.0	(260.7)	
	"	"	133	53	13.81			239.9	(802.3)	
<del>TREE, 1903</del>	G-609 p. 222	"	<del>55</del>	<del>55</del>	<del>05.607</del>			<del>173.4</del>	<del>(1682.3)</del>	
	"	"	<del>133</del>	<del>50</del>	<del>55.618</del>			<del>966.0</del>	<del>(76.1)</del>	
PEAK F, 1922	G-609 p. 216	"	55	54	20.18			624.1	(1231.6)	
	"	"	133	53	38.91			676.1	(366.4)	
PEAK E, 1922	"	"	55	54	32.26			997.7	(857.9)	
	"	"	133	53	46.25			803.5	(238.9)	
PEAK G, 1922	"	"	55	54	02.38			73.6	(1782.1)	6
	"	"	133	54	29.75			517.0	(525.6)	23
LICHEN 2, 1937	G-3581 p. 761	"	55	54	03.898			120.6	(1735.1)	
	"	"	133	50	27.624			480.0	(562.6)	



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PRELIMINARY COMPILATION REPORT  
T-10393 and T-10400  
Project 6087

Field Inspection Report: Refer to Field Inspection Report. Maps T-9623 thru T-9630, Combined Operations - USC&GS Ship LESTER JONES, Project 1347 (Ph-87) submitted by P.A. Stark. (See Descriptive Report for survey T-9624.)

Photogrammetric Plot Report: Part of the preliminary Descriptive Report for surveys T-10382, T-10387, T-10388, T-10394, T-10395, T-10396 and T-10401.

31. DELINEATION

These manuscripts were delineated by graphic methods.

32. CONTROL

No comment.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours - Not applicable.

Drainage - No comment.

35. SHORELINE AND ALONGSHORE DETAILS

*\* See below*

The only inspection furnished was the identification of two control stations. These manuscripts were delineated completely by office interpretation. The stage of tide at time of photography is computed to be at mean high water so the edge of the water as imaged on the photographs was used as the shoreline.

An attempt was made to delineate as much of the intricate detail of the shoreline as possible in the event some of the features may be useful for the location of photo-hydro signals. The work on the photographs was done in most areas on thin acetate overlays in order not to obscure the shoreline details on the office photographs.

The high ground immediately behind the shoreline appears to be rocky, steep and high. It is described in the coast pilot as a "rocky shelf". No bluffs have been delineated. Those bluffs which are prominent or otherwise useful to the navigator should be indicated during field inspection.

The ledge areas as delineated are not as extensive as are shown on chart 8173, probably due to the high stage of tide on the photographs. No low water line has been delineated.

*\* Refer to Summary, page 69 and page 29,  
heading 61. of the final review report*

*ASB*

36. OFFSHORE DETAILS

The foul line has been used to indicate areas of numerous possible rocks or ledges. Kelp areas were outlined where they appeared to be in the same position on several photographs. Objects which appeared to be floating were not delineated. Many of the charted offshore rocks were not apparent on the photographs.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

Refer to paragraph 49.

39. JUNCTIONS

Junction between these surveys has been made and is in agreement. There is no junction to be made with survey T-10394 to the east of survey T-10393.

40. HORIZONTAL AND VERTICAL ACCURACY

The only identified control is in the northeast part of the island. Because of photogrammetric extension beyond control, the remainder of the shoreline may be out of position and will be corrected by a new plot after additional control stations are identified.

41 - 45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

The U.S.G.S. Craig, Alaska quadrangle, scale 1:250,000, edition of 1952 was available. Detailed comparison was not practicable because of the small scale. Two cabins shown on the quadrangle could not be found on the photographs.

47. COMPARISON WITH NAUTICAL CHARTS

Chart 8173, published March 1939, corrected to 10/22/51.

Respectfully submitted  
7 February 1956

Approved and Forwarded

*E. H. Kirsch*  
E. H. Kirsch,  
Capt. C&GS  
Baltimore District Officer

*Judson Y. Council*  
Judson Y. Council  
Carto. Photo. Aid

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-87 (Sumner Strait, Alaska)

T-10393

False Cove

Pt. Borlase

Sumner Strait

Warren Channel

Warren Cove

Approved by:

*A. J. Wraight*  
A. Joseph Wraight  
Chief Geographer

Prepared by:

*Frank W. Pickett*  
Frank W. Pickett  
Cartographic Technician

49. NOTES FOR THE HYDROGRAPHER

In order to transfer the shoreline to the boat sheets, all the sea level control stations, if possible, should be located photogrammetrically on the manuscripts. For your information, office pricking cards are being furnished which indicate the points pricked in the vicinity of these stations. Only two stations were identified in the field: GNAUG, 1937 and LICHEN 2, 1937. All office identified stations require field verification.

If it is found that distortion in the radial plot exists, the projections on the manuscripts should be ignored and the shoreline applied to the boat sheets adjusting between photogrammetrically located control stations.

A few pass points were found to be high enough to cause appreciable relief displacement and are marked "Elevated Pass Points" on the photographs.

The stage of tide at the time of photography was computed to be at mean high stage, so the edge of the water was delineated as the shoreline.

No bluffs have been delineated. Those bluffs which are prominent or useful to the navigator should be indicated during field inspection.

PHOTOGRAMMETRIC OFFICE REVIEW

~~T-10363~~ T-10393

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1. PROJECTION AND GRIDS ✓	2. TITLE ✓	3. MANUSCRIPT NUMBERS ✓	4. MANUSCRIPT SIZE ✓
CONTROL STATIONS			
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 ALONGSHORE 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. 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.			
COMPILER		SUPERVISOR	
43. REMARKS <i>There was no Photogrammetric Office Reviewed form in the Descriptive Report when received by the final reviewer. Items checked hereon were checked by the final reviewer.</i>			

REVIEW REPORT T-10393  
SHORELINE  
NOVEMBER 29, 1968

61. GENERAL STATEMENT:

See Summary accompanying the Descriptive Report. (PAGES 6 AND 6A)

There is no field edit sheet or field edit report for this survey. The shoreline along the east side of Warren Island was corrected from 1956 field inspection notes.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with copies of Registered Surveys No. 4006, 1:20,000 scale, made in 1922 and No. 6588, 1:20,000 scale made in 1937. The shoreline of these two surveys is not in perfect agreement with the shoreline of T-10393.

Survey T-10393 supersedes the two prior surveys for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS CRAIG (D-6), ALASKA, 15 x 20 minute quadrangle, 1:63,360 scale, edition of 1951. The two surveys are in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with copies of H-6283, made in July and August 1937; H-8286 made in 1956 and H-8112 made in 1960. The shoreline of H-8112 and H-8286 is in good agreement with T-10393 while the shoreline of H-6283 is not in agreement.

All of the field photographs pertaining to this survey and all office photographs, with the exception of 41300 and 41310, were lost prior to final review. Because of the lost photographs, the high stage of the tide at the time of photography and extensive areas of kelp, very few of the

8173  
8228  
1-18-51  
2

rocks located by the hydrographer could be verified photogrammetrically. All differences between the hydrographic surveys and this survey have been shown on a comparison print which is part of this report. (REFER TO PAGES 6 AND 6A

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 8173, 4th edition, October 25, 1965. For the same reasons stated in Item 64 very few of the rocks shown on the chart could be verified photogrammetrically. All differences between the chart and this survey have also been noted on the comparison print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with project instructions and meets the National Standards of Map Accuracy. THIS SURVEY IS INCOMPLETE EXCEPT FOR THE EAST SIDE OF WARREN ISLAND - REFER TO PAGES 6 AND 6A.

As stated in Item 64, office photographs 41300 and 41310 were the only photographs available at the time of final review.

Approved by:

*Howard S. Cole*

Howard S. Cole, CAPT USESSA  
Director, Atlantic Marine Center

Reviewed by:

*Leo F. Beugnet*

Leo F. Beugnet

Approved by:

*Charles H. Hester*  
Chief, Photogrammetric Branch

*R. H. Houtster*  
Chief, Photogrammetry Division

Chief, Nautical Chart Division