

10400 ORIGINAL

10400

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE (PHOTOGRAMMETRIC)*
Field No.	Office No. T-10400
LOCALITY	
State	ALASKA
General locality	SUMNER STRAIT
Locality	WARREN ISLAND - SOUTH PART
1953- 1956	
CHIEF OF PARTY G.A. Nelson, Chief of Field Party E.H. Kirsch, Baltimore District Officer	
LIBRARY & ARCHIVES	
DATE	

USCOMM-DC 5087

* THE MANUSCRIPT IS CLASSIFIED
"INCOMPLETE" REFER TO PAGE 6 & 6A

DESCRIPTIVE REPORT - DATA RECORD

T - 10400

PROJECT NO. (II): PH-87		
FIELD OFFICE (III): USC&GS Ship LESTER JONES		CHIEF OF PARTY G.A. Nelson
PHOTOGRAMMETRIC OFFICE (III): Baltimore, Maryland		OFFICER-IN-CHARGE E.H. Kirsch
INSTRUCTIONS DATED (II) (III): Field: 23 Dec. 1954 Office: 17 Dec. 1953 25 Jan. 1955 7 Nov. 1955		
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): MHW MEAN LOW WATER 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): KING, 1904-22		
LAT.: 55° 50' 45.256"	LONG.: 133° 52' 12.731"	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): Y = X =		STATE Alaska
		ZONE 8
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.		

DESCRIPTIVE REPORT - DATA RECORD

ERA (KIND OR SOURCE) (III):

USC&GS Nine - lens

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
41300 thru 41304	7-25-53	1240	1:10,000	9.2' above MLLW
41306 and 41307	7-25-53	1240	1:10,000	9.2' above MLLW

TIDE (III) FROM PREDICTED TIDES

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:
Feb. 1969

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

3

RECOVERED:

3

IDENTIFIED:

3

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

0

RECOVERED:

0

IDENTIFIED

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

4
T-10400

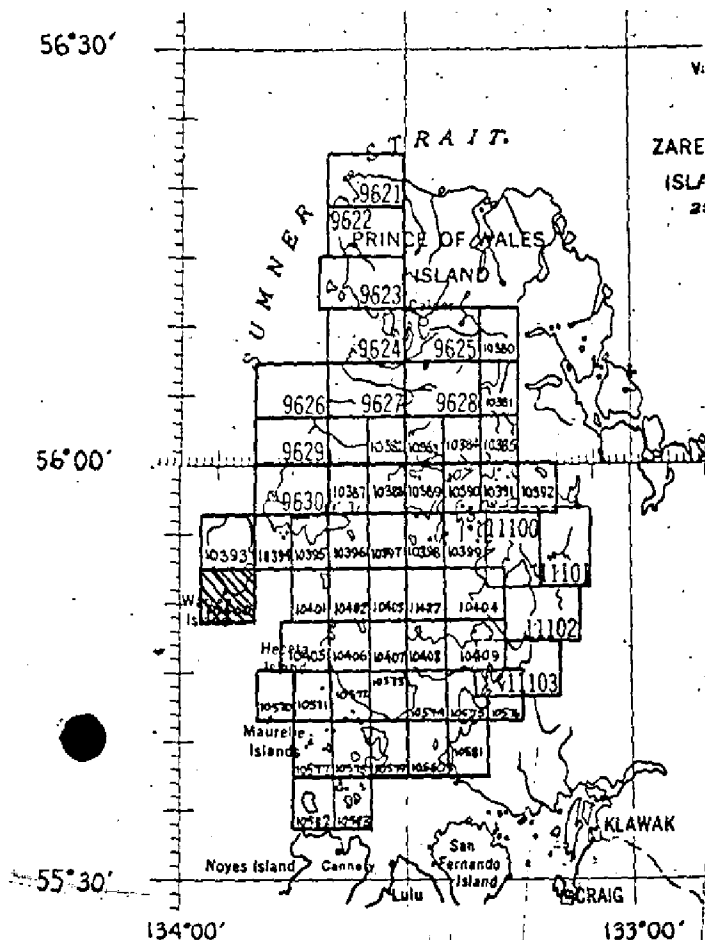
COMPILATION RECORD	COMPLETION DATE	REMARKS
Compiled (PRELIMINARY)	Feb. 1956	
RECOMPILED (PART ADVANCE) Final Review	1957 * See below Feb. 1969	

* Refer to page 6A

SHORELINE MAPPING PROJECT PH- 87

5

Prince of Wales Island, Alaska



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 432 378

PAGE 6A

The field identification of horizontal control (in 1955) for the portion of the plot covering T-10393 and T-10400 (assembled in 1956) was inadequate (refer to item 23, page 20).

The 1956 field inspection work included the identification of control. A new plot based on this control was assembled in 1957 (refer to page 21).

No report exists to account for recompilation; however, pass point dots on the manuscript account, in part, for the changes in pass point positions discussed in the 1957 plot report. It is assumed that the field inspection (1956 - east side of Warren Island) was applied in conjunction with recompilation.

A.H.B.

6

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-10400

Shoreline survey T-10400 is one of 58 similar surveys in project PH-87. It covers the southern part of Warren Island. See page 5 for the area of the survey within the project. The primary purpose of the survey was to provide new shoreline for nautical charts and photo-hydro support data for hydrographic surveys.

REFER TO
PAGE 6A
←

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 appeared to have been corrected on the manuscript, probably from the field inspection notes of 1956.

The manuscript was received in final review classified as an incomplete manuscript. This classification has been retained on the manuscript and the copies forwarded for record and registry.

Compilation was at 1:10,000 scale by graphic methods using the nine-lens photography of July 1953. A cronaflex copy of the manuscript, blueline tracing, ozalids and specially prepared 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 smooth drafted and reproduced on cronaflex. One cronaflex positive and a negative are forwarded for record and registered.

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).

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	"
DIC	" "	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	P-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
TCPO 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	" "	"	"
MEW	" "	"	"
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

17

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

REPORT FOR FINAL PLOT - SEE 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
41325 thru 41332
41374 thru 41377
41441 thru 41455

41480 and 41481
41687
41483 and 41484
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 templets 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 44490 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 SLAT, 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.

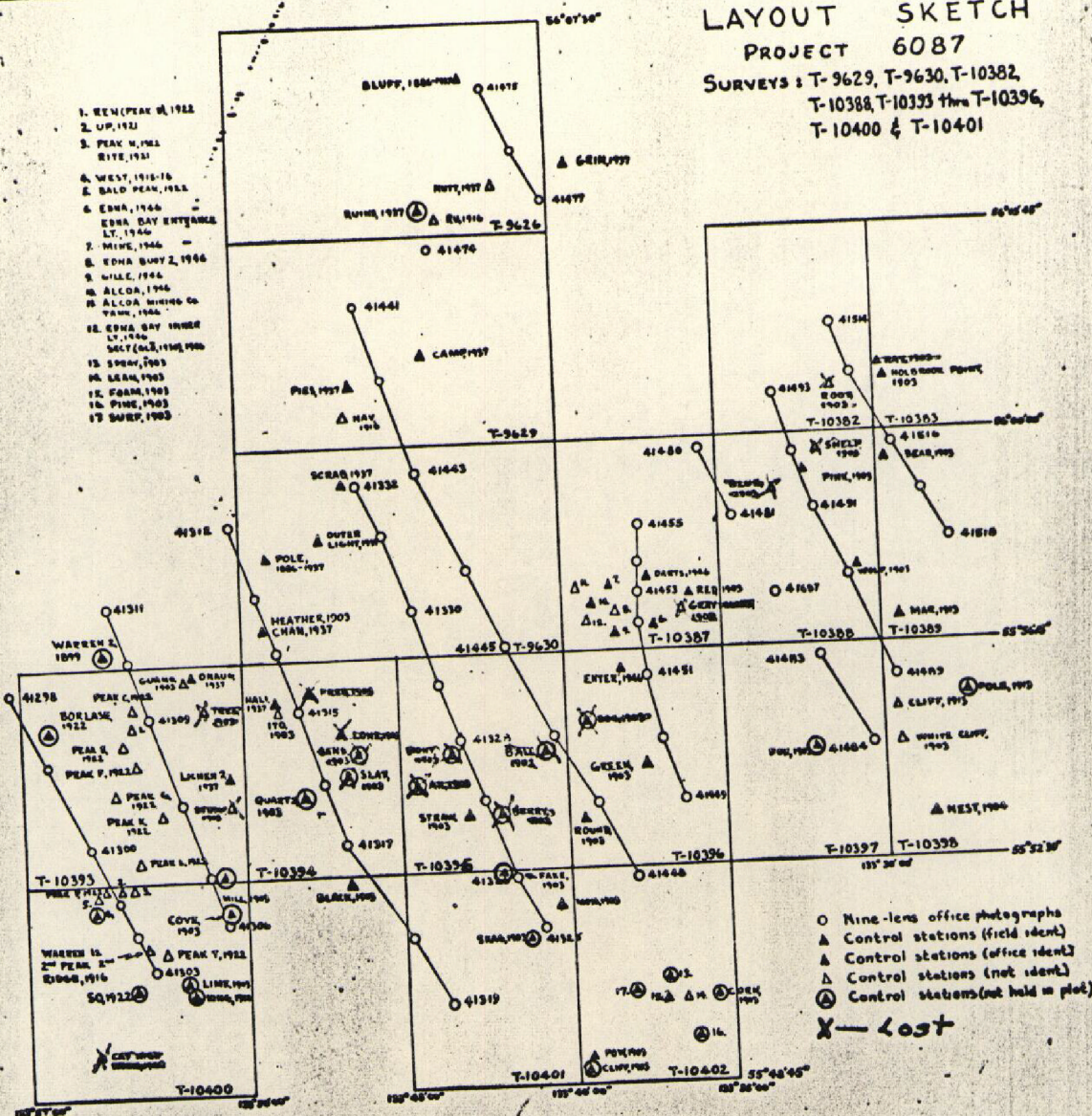
Respectfully submitted
2 January 1957

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

2.2.

LAYOUT SKETCH
PROJECT 6087

1. WEN (PEAK OF 1922
2. UP, 1921
3. PEAK N, 1921
4. RITE, 1931
5. WEST, 1915-16
6. BALD PEAK, 1922
7. EDNA, 1946
8. EDNA DAY ENTERANCE
LT, 1946
9. WINE, 1946
10. EDNA BURY 2, 1946
11. WILE, 1946
12. ALCOA, 1946
13. ALCOA WINDING CO.
1946
14. EDNA DAY SUMMIT
LT, 1946
15. WET (M.L.), 1946, 1948
16. LEARN, 1943
17. LEARN, 1943
18. PINE, 1943
19. SWEET, 1943



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

MAP T. 10400 PROJECT NO. 6087 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ν -COORDINATE LONGITUDE OR λ -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)	
BALD PEAK, 1922	G-609 p. 344	N.A. 1927	55	52	14.68			454.0	(1401.7)	
			133	54	37.41			650.6	(392.7)	
PEAK P, 1922	G-609 p. 217	"	55	52	14.64			452.8	(1402.9)	
			133	54	36.22			629.9	(413.5)	
RITE, 1921	G-609 p. 267	"	55	52	20.10			621.7	(1234.0)	
			133	54	00.11			1.9	(1041.5)	
PEAK N, 1922	G-609 p. 216	"	55	52	20.28			627.2	(1228.5)	
			133	53	59.08			1027.4	(16.0)	
UP, 1921	G-609 p. 267	"	55	52	07.251			224.3	(1631.4)	
			133	54	23.044			400.8	(642.7)	
WEST, 1915-16	G-609 p. 206	"	55	52	07.614			235.5	(1620.2)	
			133	55	37.126			645.7	(397.8)	
DOVE, 1903	G-609 p. 288	"	55	52	00.196			6.1	(1819.6)	
			133	50	35.736			621.5	(422.0)	
PEAK T, 1922	G-609 p. 217	"	55	51	04.98			154.0	(1701.7)	
			133	52	41.56			723.1	(320.8)	
WARREN IS. 2nd PEAK 2nd Ridge, 1916	G-609 p. 205A	"	55	51	28.79			890.4	(965.3)	
			133	54	11.27			196.0	(847.7)	
KING, 1904	G-609 p. 206	"	55	50	45.256			1399.7	(456.0)	
			133	52	12.731			221.5	(822.5)	
LIME, 1903	G-609 p. 292	"	55	50	46.091			1425.5	(430.2)	
			133	52	17.651			307.1	(736.9)	
SO, 1922	G-609 p. 206	"	55	50	48.002			1484.6	(371.1)	23
			133	54	21.631			376.4	(667.7)	

1 FT. = 3048006 METER

COMPUTED BY B. Kurs

DATE 11/25/55

CHECKED BY H. R. Rudolph

DATE 11/28/55

COMMA DC-57843

COAST AND GEODETIC SURVEY
CONTROL RECORD

MAP T. 10400

PROJECT NO.

6087.

SCALE OF MAP 1:10,000

SCALE FACTOR

[illegible]

1 ET - 3048006 METER

COMPILED BY: A. Queen

DATE 12/6/55

CHECKED BY: F. M. Wieschke

DATE 12/8/55

COMM-DC-57843

24

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

(Refer to Page 6A)

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

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.

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 (Iphigenia Bay, Alaska)

T-10400

Boot Point


Iphigenia Bay

Warren Channel

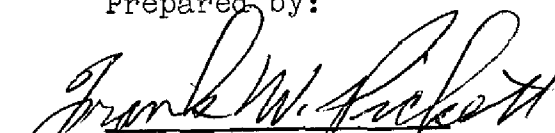
Warren Cove

Warren Island

Approved by:


A. Joseph Wraight
Chief Geographer

Prepared by:


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: ONAUG, 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-10400

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 There was no Photogrammetric Office Review form in the Descriptive Report when received by the final reviewer. Items checked hereon were checked by the final reviewer.							

REVIEW REPORT T-10400
SHORELINE
FEBRUARY 3, 1969

61. GENERAL STATEMENT:

See Summary which is page 6 of this report.

There is no field edit report or field edit sheet for this survey. The shoreline along the east side of the island is believed to have been corrected from 1956 field inspection notes.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with a copy of Registered survey No. 4006, 1:20,000 scale made in 1922. The passage of time has made that survey obsolete. It is superseded by T-10400 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, 1:63,360 scale quadrangle, edition of 1951. The shoreline on that survey is generalized and does not portray the jagged MHWL as does T-10400. The offshore rocks along the west shore of the island are not visible on the photographs of the area.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with copies of H-8112 and H-8286. The shoreline for the southern part of Warren Island for these two surveys was obtained from a copy of T-10400. There are therefore no discrepancies in the shoreline of the surveys.

Eleven rocks, located by the hydrographer, along the eastern and southern shore of Warren Island could not be verified photogrammetrically. These rocks which are not

visible on the photographs due to kelp and the high stage of the tide at the time of photography have been indicated on the comparison print in purple.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with chart 8173, 4th edition, October 25th, 1965. The shoreline of the chart and survey T-10400 is not in good agreement. The difference has been shown on the comparison print in red. The majority of the rocks surrounding Warren Island that are shown on the chart are not visible on the photographs. Large areas of kelp and the high stage of the tide at the time of photography obscure most of the offshore detail. All rocks that are not visible on the photographs have been indicated on the comparison print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with instructions and meets the National Standards of Map Accuracy. (Refer to page 68.6A - this is an "INCOMPLETE" survey).

There were no field photographs available at the time of final review. Office photographs 41301 thru 41304 were used to review the manuscript during final review.

Approved by:

Reviewed by:

Fol *Al Stark*
Allen L. Powell, RADM USESSA
Director, Atlantic Marine Center

Leo F. Beugnet
Leo F. Beugnet

Approved by:

Charles L. Houtster
Chief, Photogrammetric Branch *140* Chief, Photogrammetry Division

Chief, Nautical Chart Division