

10581

10581

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
* Type of Survey Shoreline (Photogrammetric)	
Field No.	Office No. T-10581
LOCALITY	
State	Alaska
General locality	Gulf of Esquibel
Locality	Bobs Place to Salt Lake Bay
1955-1956	
CHIEF OF PARTY	
William F. Deane, Baltimore District Office	
LIBRARY & ARCHIVES	
DATE	

USCOMM-DC 5087

* THIS SURVEY IS INCOMPLETE - REFER
TO PAGES 6 AND 6A OF THIS REPORT.

DESCRIPTIVE REPORT - DATA RECORD

T-10581

THESE RECORDS ARE INCOMPLETE - REFER TO "REMARKS" AT
PROJECT NO. (II): BOTTOM OF PAGE 3.

PH-87

FIELD OFFICE (II):

USC&GS Ship HODGSON

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Baltimore, Maryland

OFFICER-IN-CHARGE

William F. Deane

INSTRUCTIONS DATED (II) (III):

Office: 7 Nov. 1955
13 Nov. 1956
15 July 1957
30 Oct. 1957

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):

NA 1927

VERTICAL DATUM (III):

MHW

~~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):

Phillips Rock, 1907

LAT.:

55° 38' 19.088"

LONG.:

133° 25' 54.258"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y =

X =

Alaska

UTM 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

FIELD INSPECTION BY (II):		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Office interpretation of August 1955 and August 1956 nine-lens photography.		
PROJECTION AND GRIDS RULED BY (IV):		DATE
PROJECTION AND GRIDS CHECKED BY (IV): I. Y. Fitzgerald		DATE 12-12-57
CONTROL PLOTTED BY (III):		DATE
CONTROL CHECKED BY (III):		DATE
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): E. L. Williams		DATE January 1958
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III):		DATE
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Nine-lens

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
52026	8-22-55	0930	1:10,000	1.3' above MLLW
54599 thru 54601	8-12-56	1502	1:10,000	6.3' above MLLW
54598	8-12-56	1507	1:10,000	6.6' above MLLW

TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	XXXXX SPRING RANGE
REFERENCE STATION: Sitka		7.7	9.9
COORDINATE STATION: Anguilla Island		8.2	10.3
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, AMC

DATE: June 1969

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):

RECOVERED:

IDENTIFIED:

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

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:
Form 181a, 181b and 181c prepared by the final reviewer. There is no other date available.

T-10581

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compiled	1958	
Final Review	June 1969	

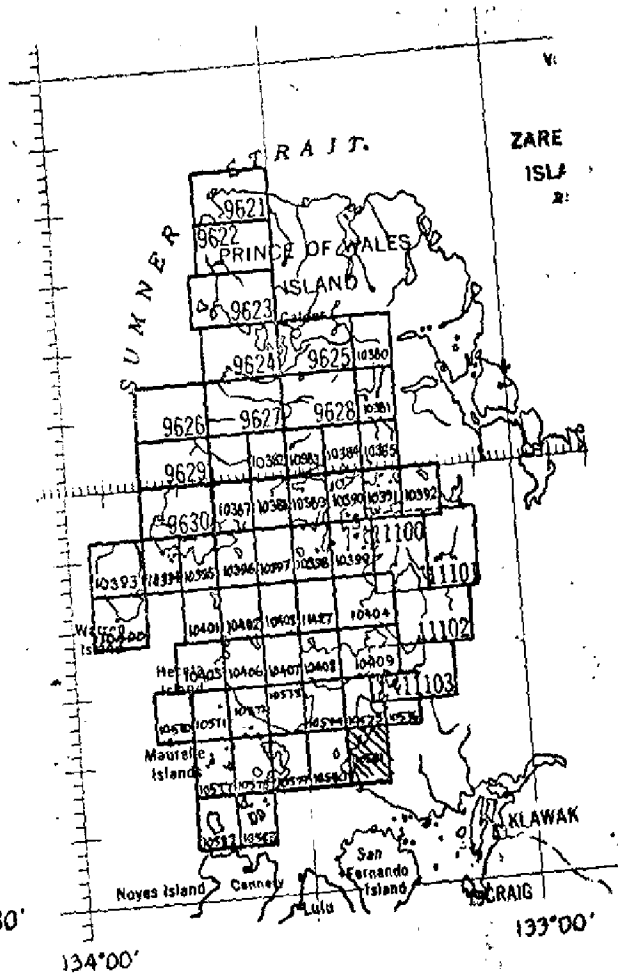
SHORELINE MAPPING PROJECT PH- 87

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	3	1
10404	5	10
10405	2	2
10406	8	1
10407	5	2
10408	10	7
10409		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 412

378

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-10581

Shoreline survey T-10581 is one of 58 similar surveys in project PH-87. It covers part of the shoreline of Prince of Wales and St. Philip Islands in the area of Tonowek Bay. See page 5 of this report for the area within the project.

Field work for this survey consisted only of identification of horizontal control. There was no field inspection or field edit. *

Compilation was at 1:10,000 scale by graphic methods using the nine-lens photography of August 1955 and August 1956. There is no record of this survey having been furnished for photo-hydro support use.

The manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 5 minutes in longitude which was drafted and reproduced on cronaflex. One cronaflex positive and a negative are furnished for record and registry.

REFER TO THE "SUMMARY ADDENDUM", PAGE 6A

SUMMARY ADDENDUM
T-10581

As stated in the summary there was no field inspection or field edit accomplished for this survey; and, in addition the Compilation Report was lost - subsequent to the time of final review. As a result the only information concerning the adequacy of photography for compilation purposes is comprised of brief notes included in the general "Notes to the Hydrographer", page 13 of this Descriptive Report. These notes indicate that the photography, at least in part, was inadequate for compilation purposes.

In comparing T-10581 with prior registered Bureau surveys, and the published nautical chart covering the area, the final reviewer found (refer to items 62 and 65 of the review report and the Comparison Print) that (a) the prior Bureau surveys are apparently the source of nautical chart topography (shoreline and details offshore), (b) disagreement in shoreline exists between the subject survey and prior surveys (and the chart).

A graphic comparison of T-10581 with the published nautical chart (refer to the Comparison Prints) showed the existence of datum differences between the map and chart in some areas. The available pertinent information relative to the basic horizontal accuracy of T-10581 follows: Horizontal control for the radial plot was field identified on photography, and this control was considered adequate for the assembly of a plot that meets the National Map Accuracy Standards (refer to the Radial Plote Report).

Remapping (basic) of the subject area for both nautical charting and hydrographic support purposes is recommended.

S. G. Blankenbaker
S. G. Blankenbaker

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PHOTOGRAMMETRIC PLOT REPORT
Project Ph-87
Surveys T-10570 through T-10583

21. AREA COVERED

This radial plot covers the area of surveys T-10570 through T-10583.

These surveys cover that part of southeastern Alaska encompassing the southern half of Heceta Island, the Maurelle Islands, a western portion of Prince of Wales Island, and the most northern tip of Noyes Island.

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.

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

Base sheets were prepared in this office.

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

Photographs:

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

Seventy-three (73) photographs were used, numbered as follows:

41728 through 41732
51994 and 51995
52004 through 52008
52026 through 52030
52039 through 52043
54580 through 54630

Closure and Adjustment to Control:

The radial plot is an extension to the south of the plot for surveys T-10405 through T-10409. The radial plot was assembled in two sections. The first section covered surveys T-10570 thru T-10574, T-10577 through T-10579, and T-10582 and T-10583. The second section, comprised of the remaining surveys, is essentially a separate radial plot in that the large expanse of Tonowek Bay divides the two sections. Although, only a relatively few pass-points tie the two sections together, there is sufficient control to ensure the required horizontal accuracy.

Transfer of Points:

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

23. ADEQUACY OF CONTROL

The density and distribution of control was adequate.

The following control could not be held in the radial plots.

TURF, 1907. The radially plotted position of the station is 0.5 mm (5 meters) to the south of the plotted position. The identification is apparently in error.

24. SUPPLEMENTAL DATA

None.

25. PHOTOGRAPHY

The photographic coverage and definition of photographs used in the plot were good.

Respectfully submitted
20 January 1958

E. L. Williams

E. L. Williams
Carto. (Photo.)

DESCRIPTIVE REPORT CONTROL RECORD

[illegible]

GEOGRAPHIC NAMES

FINAL NAME SHEET

Ph-87 (Gulf of Esquibel, Alaska)

T-10581

Gulf of Esquibel *

Prince of Wales Island

St. Philip Island

Salt Lake Bay

Tonowek Bay

** Not used on this survey*

Approved by:

A. J. Wraight

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett

Frank W. Pickett
Cartographic Technician

PHOTOGRAMMETRIC OFFICE REVIEW

T. 10581

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 Final <i>Leo F. Bengtson</i>		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>This form prepared by the final reviewer.</i>			

SURVEYS T-10573 thru T-10583

NOTES FOR THE HYDROGRAPHER

The shoreline delineated on these surveys was interpreted using photographs taken at a fairly high stage of tide (except in Nossuk Bay). A foul line symbol was used to indicate the extent of reefs, ledges, rocks, kelp, etc., which was visible on the high tide photography. In some areas no attempt was made to show the limits because of the indefinite appearance.

In Nossuk Bay (T-10575 and T-10576), photographs were taken near low tide and office interpretation of MHW line was difficult, especially in the coves and mouth of streams. However, the foreshore features could be more completely delineated than on most of the other surveys.

T-10573 - Desconocida Reef was delineated from high tide photographs. The outline shown is only the approximate limits of the kelp visible on photographs. Careful development during hydrography is needed.

T-10574 - Elevations of rocks on which SKIP, 1914 and ECO (ECHO), 1914 are located is desired to assist in verifying office interpreted shoreline which was taken from low tide photography at the entrance to Warm Chuck Inlet.

T-10575 - Verify pier shown 820 meters southeast of SIAM, 1914. (also see note for T-10576).

T-10576 - Shoreline in Nossuk Bay should be carefully verified. Many areas were in deep shadows, and delineation of shoreline was from low tide photography, making interpretation of the MHW line difficult.

T-10577 and T-10578 - Interpretation of MHW line on small islets, rocks and rough shoreline was difficult because of wave action and surf, especially in the Woods Islands area. These areas, such as the small area just west of Epsilon Rock, delineated as ledge, should be inspected for completeness and accuracy of shoreline. Limits of ledges, reefs, rocks awash, and other foreshore and offshore features could not be delineated.

T-10579 - Verify existence of pier in Nagasay Cove. Also see note for T-10577.

→ T-10581 - Verify MHW line in Salt Lake Bay. Much was delineated from low tide photography and deep shadows caused interpretation problems. The higher tide photography was used as a guide in interpretation but the area is at the edge of the photographs and not suitable for delineation or theme.

T-10582 and T-10583 - Same difficulty as for T-10577.

No attempt was made to delineate bluffs during office interpretation of shoreline. The heights, character, and extent of any bluffs of importance for charting should be indicated on field photographs during verification of shoreline delineation.

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REVIEW REPORT T-10581
SHORELINE
JUNE 25, 1969

61. GENERAL STATEMENT:

See Summary which is page 6 of this report.

This is an incomplete manuscript. ^{some} ~~Nearly all~~ of the data for this survey had become lost prior to final review. Data available at this time consisted of the vinylite manuscript, office photographs and field photographs which contained no information other than identification of horizontal control. *

See
below

Identification of horizontal was accomplished during the 1957 field season. The radial plot was run in January 1958 in the Baltimore office and the manuscript then compiled in the Washington office. The survey was not field edited and there are no contemporary hydrographic surveys within the limits of the map.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with copies of registered surveys No. 3409 and 3446, each 1:10,000 scale, made in 1913 and 1914 respectively. The shoreline of those surveys is not in good agreement with that of T-10581. The difference is the same as that between chart 8157 and T-10581 and shown on the comparison print in red.

The shoreline of the two older surveys is superseded by that of T-10581 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS CRAIG (C-5) ALASKA, 15 x 20 minute, 1:63,360 scale quadrangle, edition of 1951. The two surveys are in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There are no contemporary hydrographic surveys within the limits of this map.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 8157, 6th edition, February 21, 1966. The shoreline of the chart is not in good

* THE PLOT REPORT AND "NOTES TO THE HYDROGRAPHER" ARE
BOUND WITH THIS DESCRIPTIVE REPORT. NO FIELD INSPECTION
OR FIELD EDIT WAS ACCOMPLISHED FOR THIS MAP.

agreement with that of T-10581. The difference has been shown on the comparison print in red. All rocks shown on the chart that are not visible on the photographs have also been indicated on the comparison print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS * SEE BELOW

This survey complies with instructions and meets the National Standards of Map Accuracy.

Approved by:

Reviewed by:

For *A. L. Powell*
Allen L. Powell, RADM, USESSA
Director, Atlantic Marine Center

Leo F. Beugnet
Leo F. Beugnet

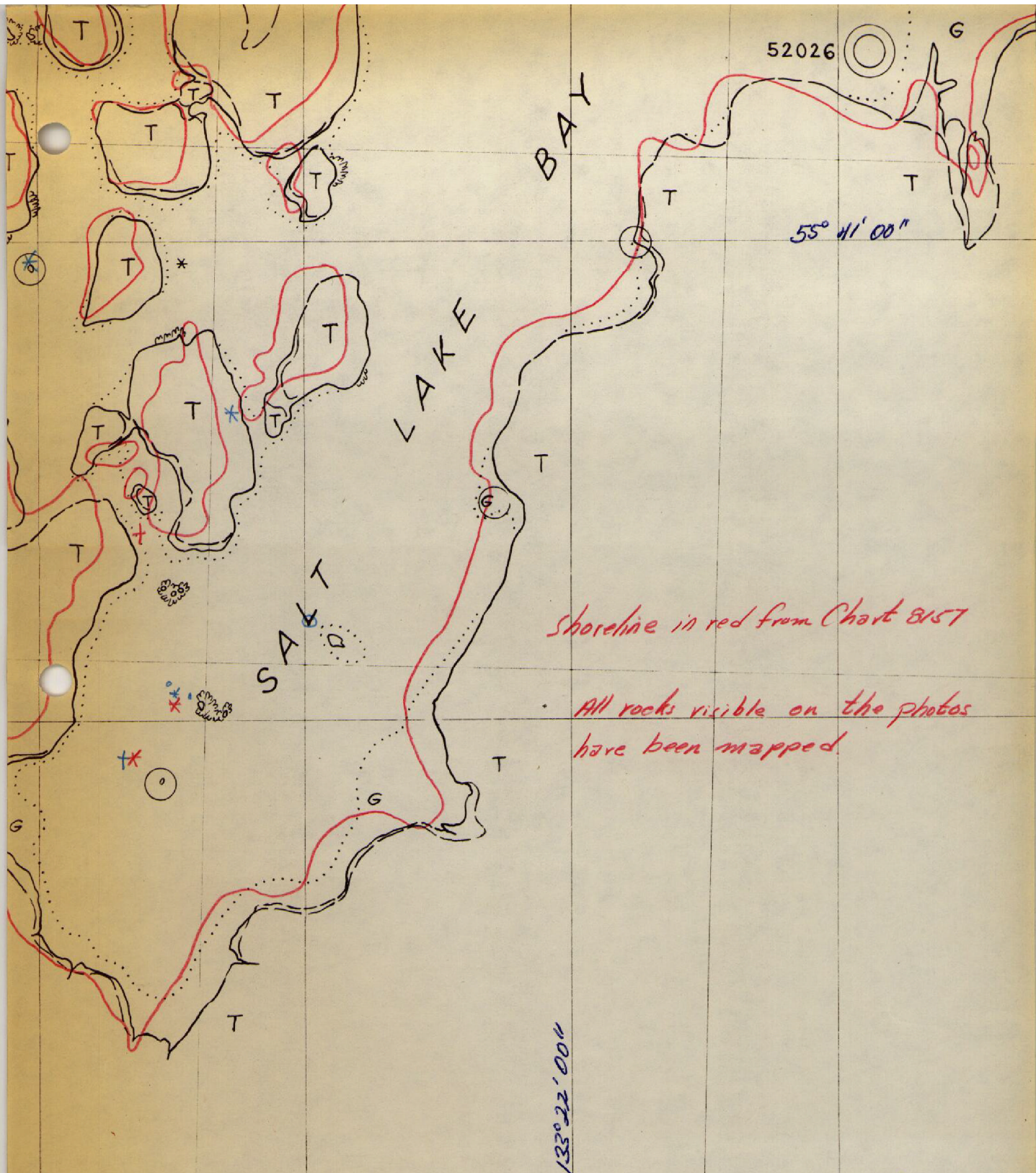
Approved By:

Everett W. Ramey Chief, Photogrammetric Branch *R. H. Houlston* Chief, Photogrammetry Division
AUB

Chief, Nautical Chart Division

NOTES

* THIS SURVEY IS INCOMPLETE. REFER TO PAGE 14,
HEADING 61. REFER TO THE "SUMMARY" (PAGE 6)
AND TO THE "SUMMARY ADDENDUM" (PAGE 6A)
CONCERNING THE ADEQUACY AND ACCURACY
OF THIS MAP. AUB



Shoreline in red from Chart 8157

All rocks visible on the photos have been mapped.

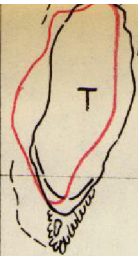
55°40'00"

T-10581

TONOWEK BAY

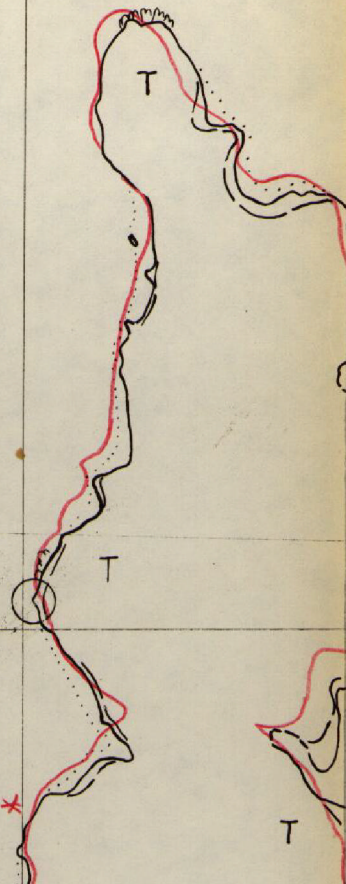
Shoreline in red from Chart 8157

*All rocks visible on the photos
have been mapped*



Not on chart

$55^{\circ} 41' 00''$



T

*

*

T

$55^{\circ} 40' 00''$

G

T

T-10581

$132^{\circ} 24' 00''$

Not on chart

*

*

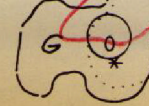
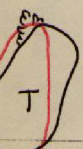
T

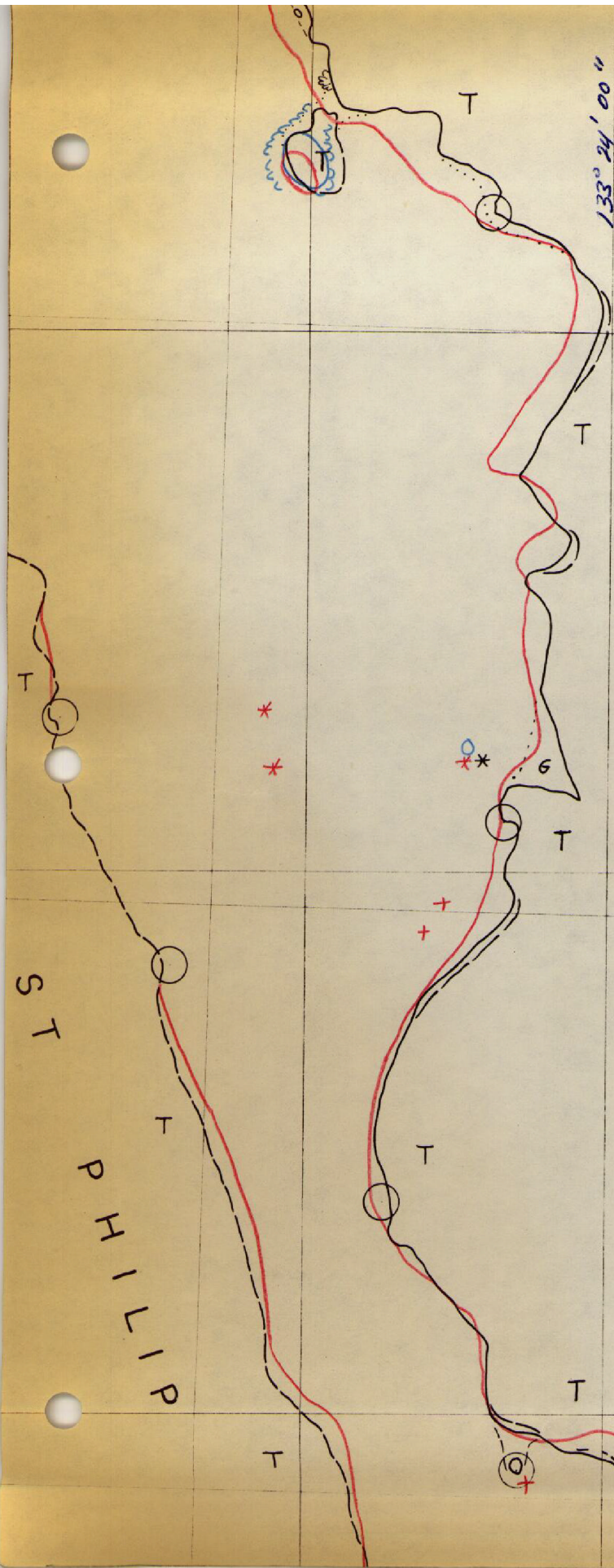
54601



*

*





Shoreline in red from Chart 8157

*All rocks visible on the photos
have been mapped*

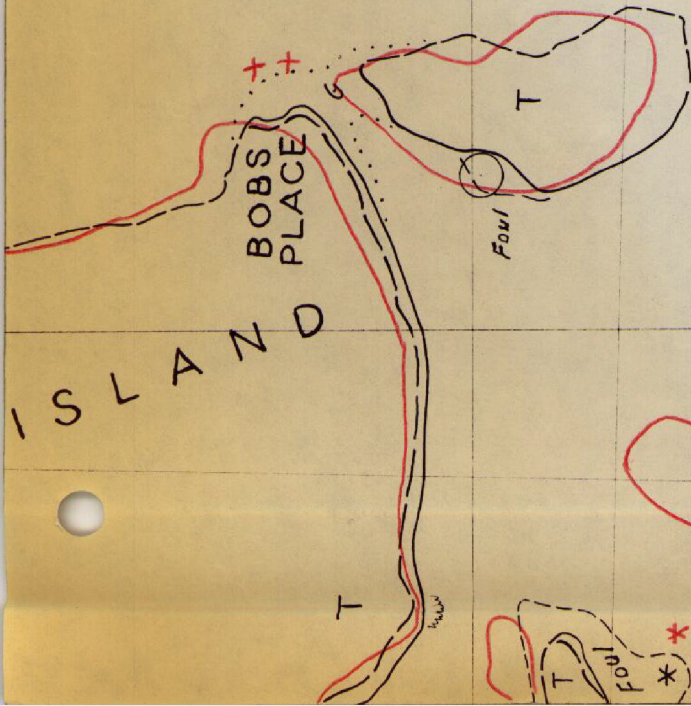
$55^{\circ} 39' 30''$

$133^{\circ} 24' 00''$

$133^{\circ} 23' 30''$

$55^{\circ} 38' 30''$

T-10581



1:600,000 = X

5'00"

24'

55° 38' 00"

Shoreline in red from Chart 8157

All rocks visible on the photos have been mapped.

55° 37' 30"

(NO CONTEMPORARY
133° 23' 00"

T-10581