

10576

10576

FORM C&GS-504	
U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
* Type of Survey Shoreline(Photogrammetric)	
Field No.	Office No. T-10576
LOCALITY	
State	Alaska
General locality	Tonowek Bay
Locality	Head of Tonowek Bay
1955	
CHIEF OF PARTY	
William F. Deane, Baltimore District Office	
LIBRARY & ARCHIVES	
DATE	

USCOMM-DC 37022-P66

\* THIS IS AN INCOMPLETE SURVEY. REFER  
TO PAGES 14 AND 15 OF THIS REPORT.

## DESCRIPTIVE REPORT - DATA RECORD

T-10576

*THESE RECORDS ARE INCOMPLETE - REFER TO REMARK "AT BOTTOM OF PAGE 3"*

PROJECT NO. (II):

PH-87

FIELD OFFICE (II):

USC&amp;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):

SLAB, 1904

LAT.:

55° 44' 50.657"

LONG.:

133° 17' 44.752"

☒ 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 nine-lens photographs		
PROJECTION AND GRIDS RULED BY (IV):		DATE
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
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:		

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DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Nine-lens

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
52042 and 52043	8-22-55	0943	1:10,000	1.2' above MLLW

TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	<del>XXXXXX</del> SPRING RANGE
REFERENCE STATION: Sitka, Alaska		7.7	9.9
SUBORDINATE STATION: Warm Chuck Inlet		8.0	10.2
SUBORDINATE STATION:			

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

DATE:  
June 1969

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

IDENTIFIED:

1

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:

Forms 181a, 181b and 181c were prepared by the final reviewer. There was no other data available.



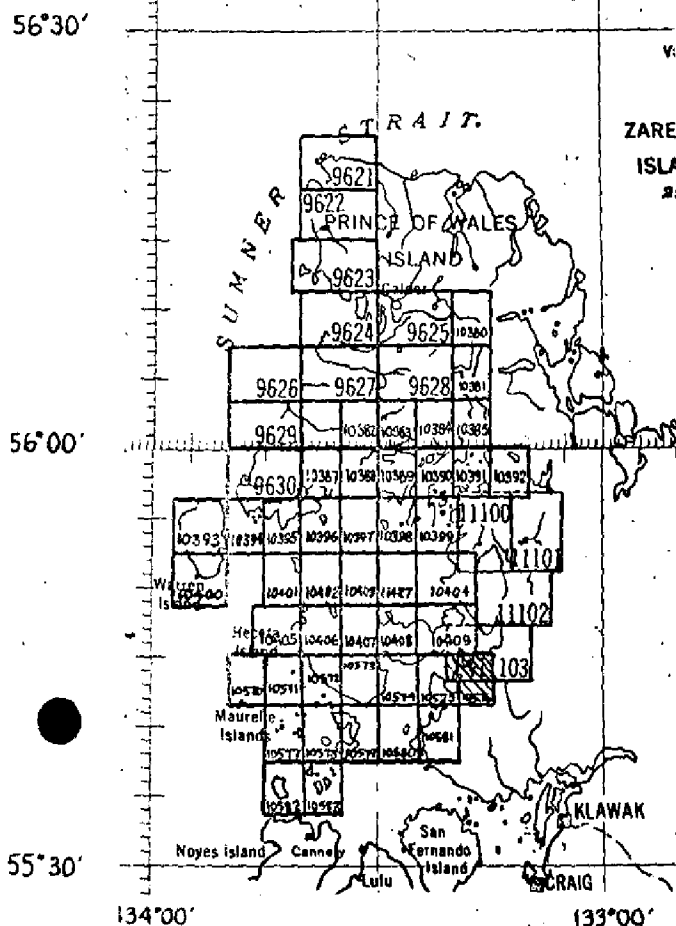
T-10576

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compiled	1958	
Final Review	June 1969	

# SHORELINE MAPPING PROJECT PH- 87

Prince of Wales Island, Alaska

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## 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	4
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-10576

Shoreline survey T-10576 is one of 58 similar surveys in project PH-87. It covers a part of the West shore of Prince of Wales Island in the vicinity of Nossuk Bay. See page 5 for the area within the project.

The only field work prior to compilation consisted of identification of horizontal control.

Compilation was at 1:10,000 scale by graphic methods using the 1:10,000 scale nine-lens photographs of August 1955. The survey was not field edited and there is nothing to indicate that it was ever furnished for photo-hydro support.

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.

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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 Maurella 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

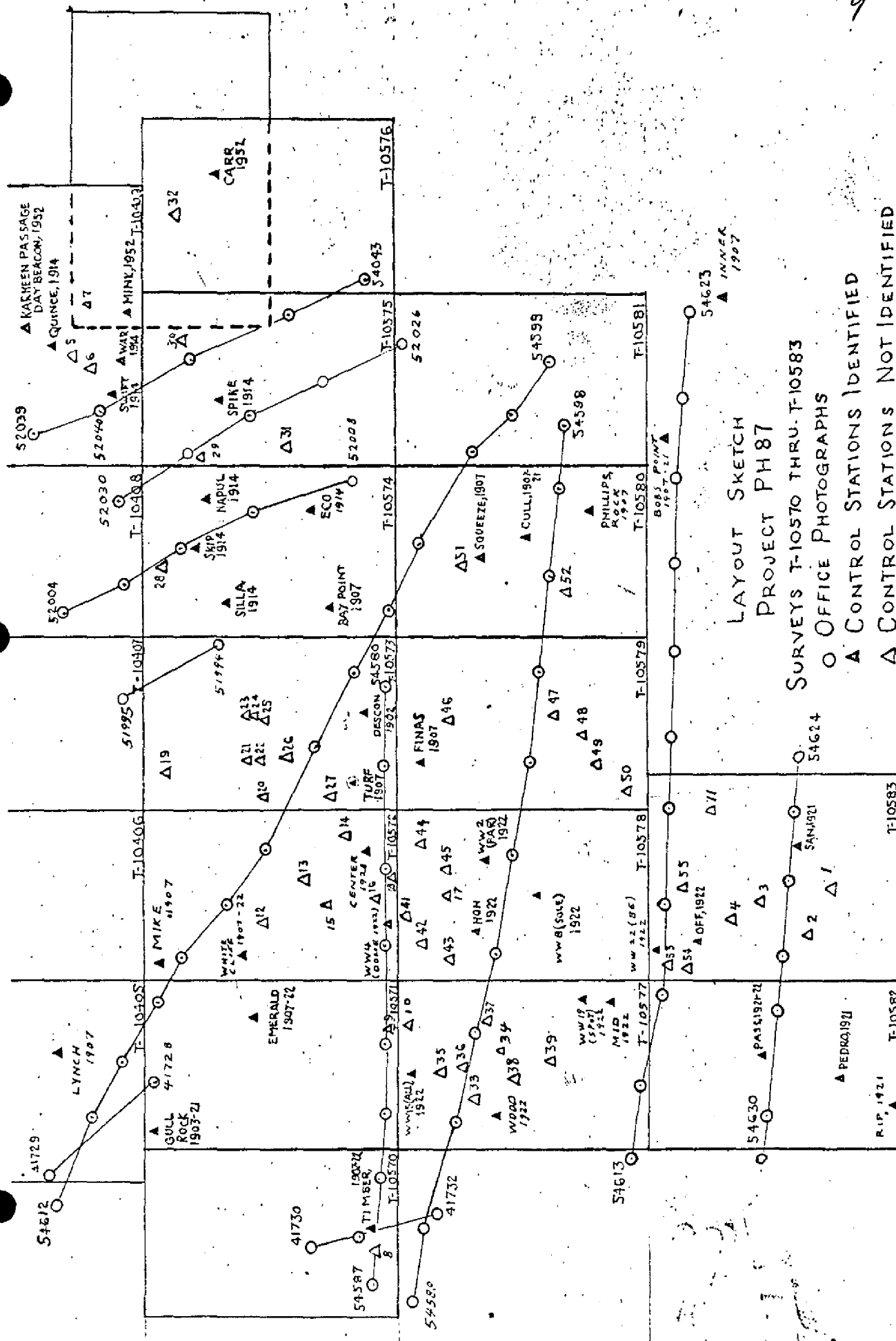
None.

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.)





January 7, 1969

GEOGRAPHIC NAMES

FINAL NAME SHEET

Ph-87 (Nossuk Bay, Alaska)

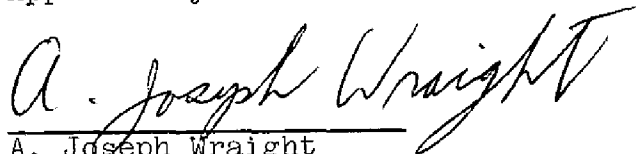
T-10576

Nossuk Anchorage

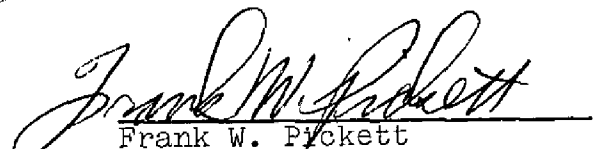
Nossuk Bay

Prince of Wales Island

Approved by:

  
A. Joseph Wraight  
Chief Geographer

Prepared by:

  
Frank W. Pickett  
Cartographic Technician



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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 forshore 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 EOO (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 on these.

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.

## PHOTOGRAMMETRIC OFFICE REVIEW

T-10576

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 <i>Leo F. Bengt</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>			



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REVIEW REPORT T-10576  
SHORELINE  
JUNE 6, 1969

61. GENERAL STATEMENT

See Summary which is page 6 of this report.

This is an incomplete manuscript. <sup>Some</sup> Most 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. Identification of horizontal control is believed to have been accomplished during the 1957 field season. The radial plot was run in the Baltimore office in 1958 and the manuscript then compiled in the Washington office. \* See below

The survey was not field edited and there is no contemporary hydrography within the limits of the survey.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

To the north of latitude  $55^{\circ} 43'$  comparison was made with a copy of registered survey No. 3447, 1:10,000 scale made in 1914. There was no registered survey available for comparison purposes to the south of  $55^{\circ} 43'$ .

The shoreline of survey No. 3447 is in good agreement with that of nautical chart 8157 but is not in agreement with T-10576. The difference between the shoreline of Chart 8157 and T-10576 has been noted on the comparison print in red and any difference that exist between those surveys also exist between survey No. 3447 and T-10576.

Rocks shown on survey No. 3447 that are not visible on the photographs have been indicated on the comparison print in blue.

The passage of time has made survey No. 3447 obsolete. It is superseded by T-10576 for nautical chart construction purposes.

*Refer to preceding paragraph SGB*

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS CRAIG (C-4) ALASKA, 15 x 20 minute quadrangle, 1:63,360 scale, edition of 1949 with minor revisions made in 1963. The two surveys are in good general agreement.

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



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 agreement with that of T-10576. All differences in the shoreline of the two surveys has been shown on the comparison print in red.

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

*Leo F. Beugnet*  
Leo F. Beugnet

Approved by:

*Everett W. Ramsey*  
Chief, Photogrammetric Branch *10/6*

*R. H. Houlston*  
Chief, Photogrammetry Division

Chief, Nautical Chart Division

\* THIS SURVEY IS INCOMPLETE (REFER TO PAGE 14, HEADING 61) A NEW BASIC <sup>SURVEY</sup> IS RECOMMENDED FOR USE IN CHARTING AND HYDROGRAPHIC SURVEYING OPERATIONS DUE TO THE LACK OF FIELD CLARIFICATION AND VERIFICATION OF DETAILS. BASIC MAP ACCURACY - HORIZONTAL CONTROL WAS FIELD IDENTIFIED ON THE PHOTOGRAPHY; AND, THE RADIAL PLOT WAS CONSIDERED ADEQUATE TO SERVE AS CONTROL FOR MAPPING TO MEET THE NATIONAL STANDARDS OF MAP ACCURACY.

*J.H.B.*



PRIN  
16

(T-10575)

43'

55° 43' 00"

Nossuk

Not on chart

Bay

shoreline from  
chart 8157

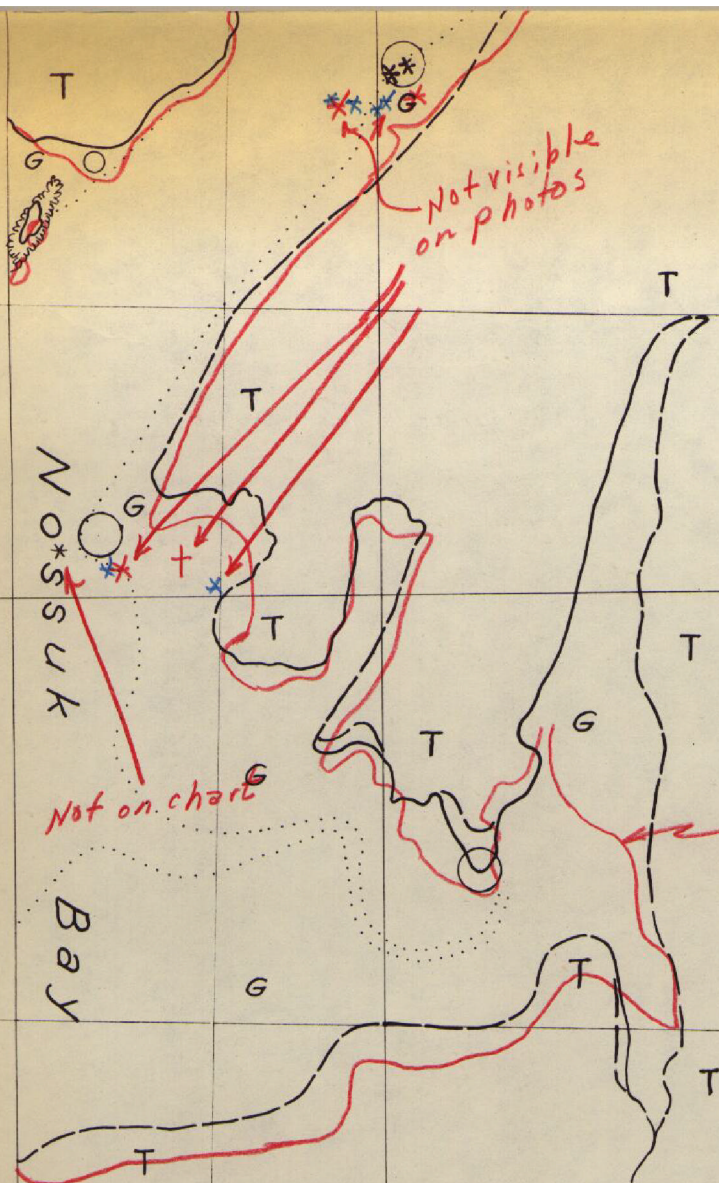
133° 19' 00"

133° 18' 30"

42'

52043

T-10576





133° 20' 00"

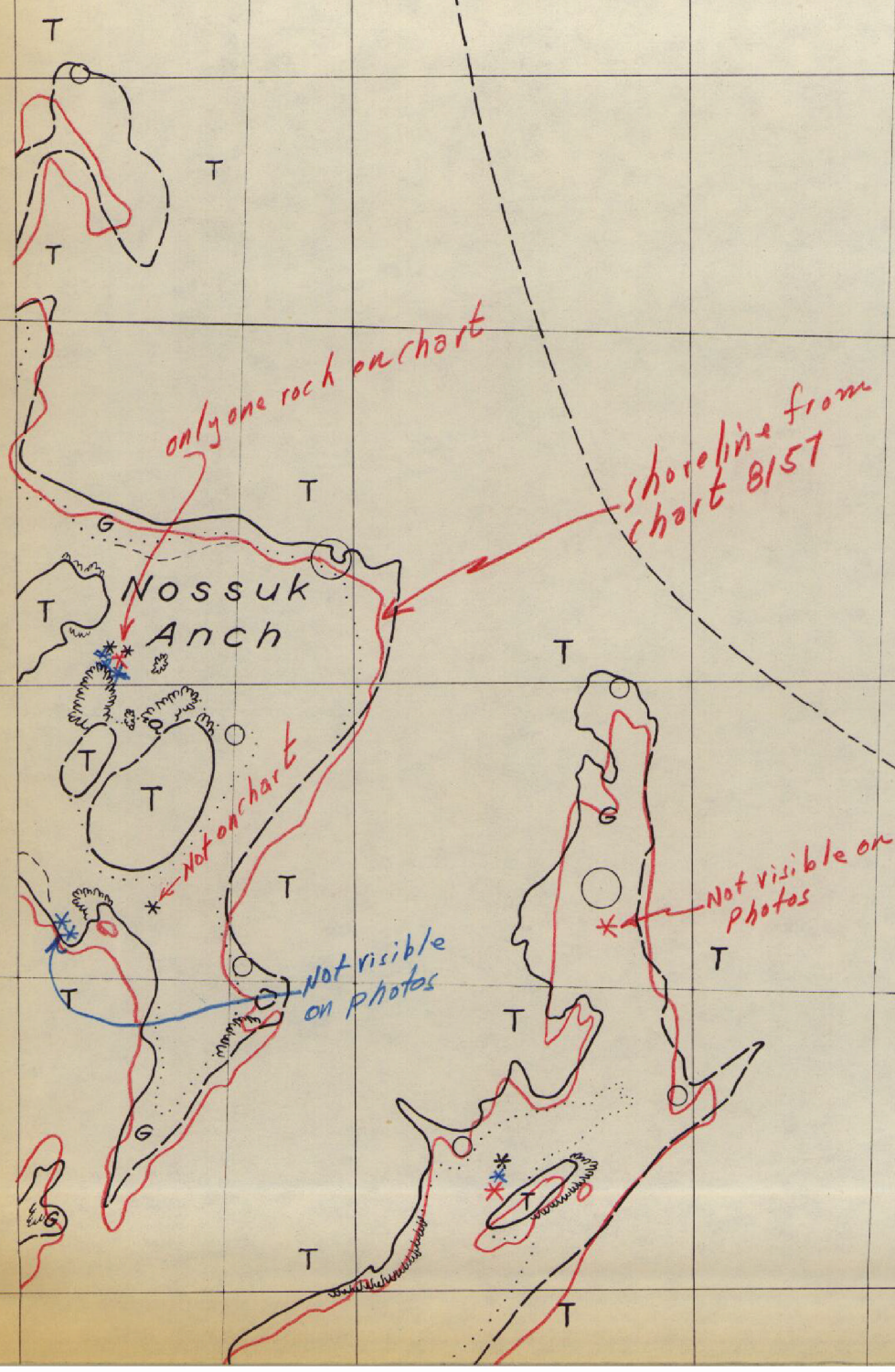
133° 19' 00"

55° 44' 30"

55° 44' 00"

(See

44'



T-10576