

10575

10575

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	* Shoreline(Photogrammetric)
Field No.	Office No. T-10575
LOCALITY	
State	Alaska
General locality	Tonowek Bay
Locality	Nossuk Bay
<div style="text-align: center;"> 1956 1955 </div>	
CHIEF OF PARTY	
William F. Deane, Baltimore District Office	
LIBRARY & ARCHIVES	
DATE	

* THIS IS AN "INCOMPLETE" SURVEY. REFER TO PAGES 14 & 15.

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T-57510575

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

PROJECT NO. (II):		
PH-87		
FIELD OFFICE (III):		CHIEF OF PARTY
USC&GS Ship HODGSON		
PHOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHARGE
Baltimore, Maryland		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):		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:10,000		
DATE RECEIVED IN WASHINGTON OFFICE (IV):		DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III):		VERTICAL DATUM (III): MHW
NA 1927		XXXXXXX 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):		
SPIKE, 1914		
LAT.:	LONG.:	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
55° 44' 12.001"	133° 23' 00.317"	
PLANE COORDINATES (IV):		STATE
Y =		Alaska
X =		ZONE
		U.T.M. 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 (III):		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Office interpretation of August 1955 nine-lens photography.		
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 STEREO PLOT 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
52027 thru 52029	8-22-55	0933	1:10,000	1.2' above MLLW
52041 and 52042	8-22-55	0944	1:10,000	1.1' above MLLW

TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	XXXX SPRING RANGE
REFERENCE STATION: Sitka		7.7	9.9
COORDINATE STATION: Warm Chuck Inlet		8.0	10.2
SUBORDINATE STATION:			

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

DATE:
May 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:

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

T-10575

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compiled	1958	
Final Review	May 1969	

SHORELINE MAPPING PROJECT PH- 87

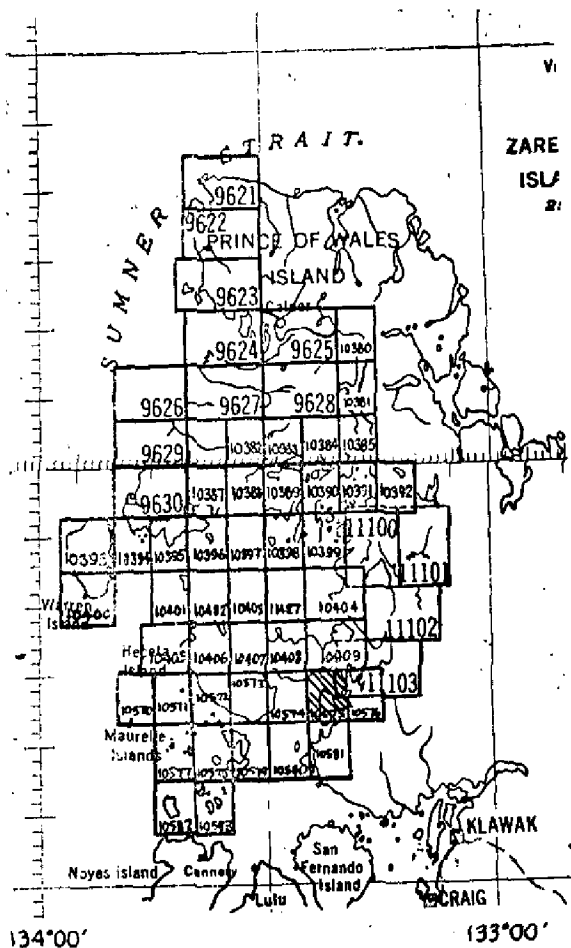
5

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	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 432 378

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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-10575

Shoreline survey T-10575 is one of 58 similar surveys in project PH-87. It covers part of the westerly shore of Prince of Wales Island in the vicinity of Nossuk Bay. See page 5 of this report 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 nine-lens photography of August 1955. There is nothing to indicate that this survey was ever furnished as photo-hydro support data.

The manuscript is 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 provided 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 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.)

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GEOGRAPHIC NAMES

FINAL NAME SHEET

Ph-87 (Tonowek Bay, Alaska)

T-10575

Harmony Islands

Heceta Island

Nossuk Anchorage

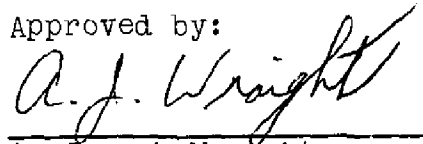
Nossuk Bay

Prince of Wales Island

Salt Lake Bay

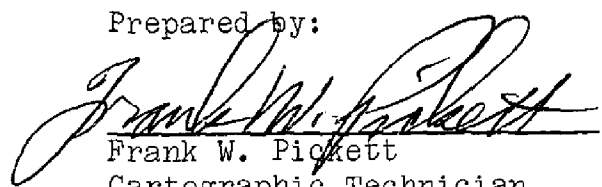
Tonowek Bay

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 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 Wana 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-10575

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. Beugnot</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-10575
SHORELINE
MAY 28, 1969

61. GENERAL STATEMENT

See Summary which is page 6 of this report.

This is an incomplete manuscript. ^{Some} Most of the data for this survey had become lost prior to final review. Data available at the time of final review 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 control is believed to have been accomplished during the 1957 field season. The radial plot was run in the Baltimore District Office in 1958 and the manuscript then compiled in the Washington Office. The survey was not field edited and there is no contemporary hydrography within the limits of the map.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with copies of registered surveys No. 3446 and 3447, each 1:10,000 scale and made in 1914. The shoreline of these surveys is in general agreement with that of nautical chart 8157 and all differences that exist between the chart and T-10575, as indicated on the comparison print, also exist between these surveys and T-10575.

All rocks appearing on the registered surveys that are not visible on the photographs have been indicated on the comparison print in blue.

The passage of time has made the prior registered surveys obsolete. They are superseded by T-10575 for nautical chart construction purposes. *Refer to the preceding paragraph SSB*

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.

** THE PLOT REPORT AND "NOTES TO THE HYDROGRAPHER" ARE BOUND WITH THIS REPORT. NO FIELD INSPECTION OR FIELD EDIT WAS ACCOMPLISHED FOR 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-10575. All differences in the shoreline of the two surveys has been shown on the comparison print in red.

Many of the rocks shown on the chart are not visible on the photographs of the area. These have also been noted 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 *McStark*
Allen L. Powell, RADM, USESSA
Director, Atlantic Marine Center

Leo F. Beugnet
Leo F. Beugnet

Approved by:

Everett D. Ramsey
Chief, Photogrammetric Branch *dsb*

R H Houlston
Chief, Photogrammetry Division

Chief, Nautical Chart Division

* THIS SURVEY IS INCOMPLETE (REFER TO PAGE 14, HEADING 61). A NEW BASIC SURVEY 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. *SEA*

133° 21' 00"

X = 604,000 m

133° 20' 00"

55° 45' 00"

Y = 6,179,000 m

All rocks visible on the
Photographs have been mapped

T
Appear only
as reefs

From chart 8157

YOT, 1914
52041

Foul

Foul

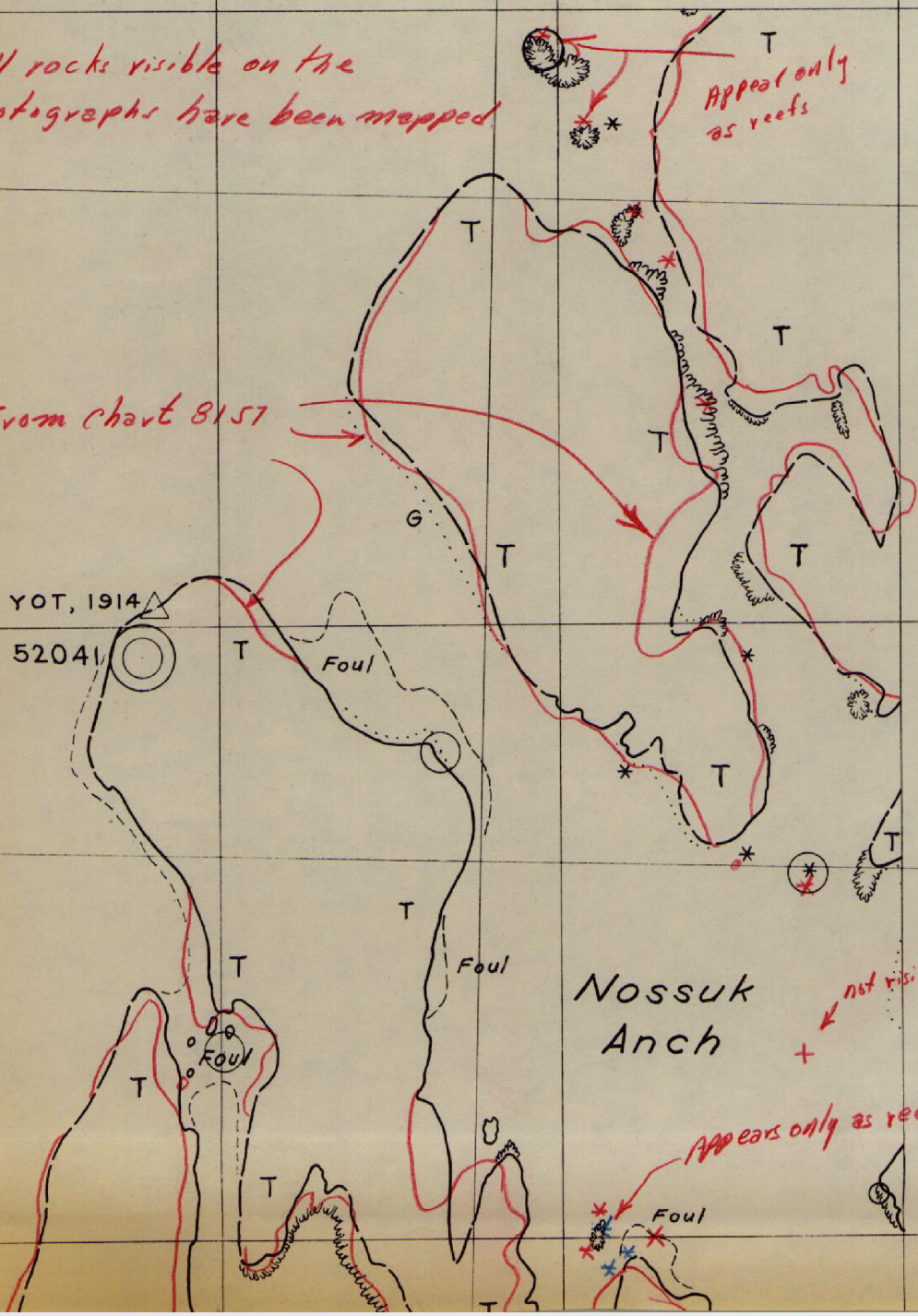
Nossuk
Anch

not visible on photos

Appears only as reef

44'

T-10575



133° 23' 00"

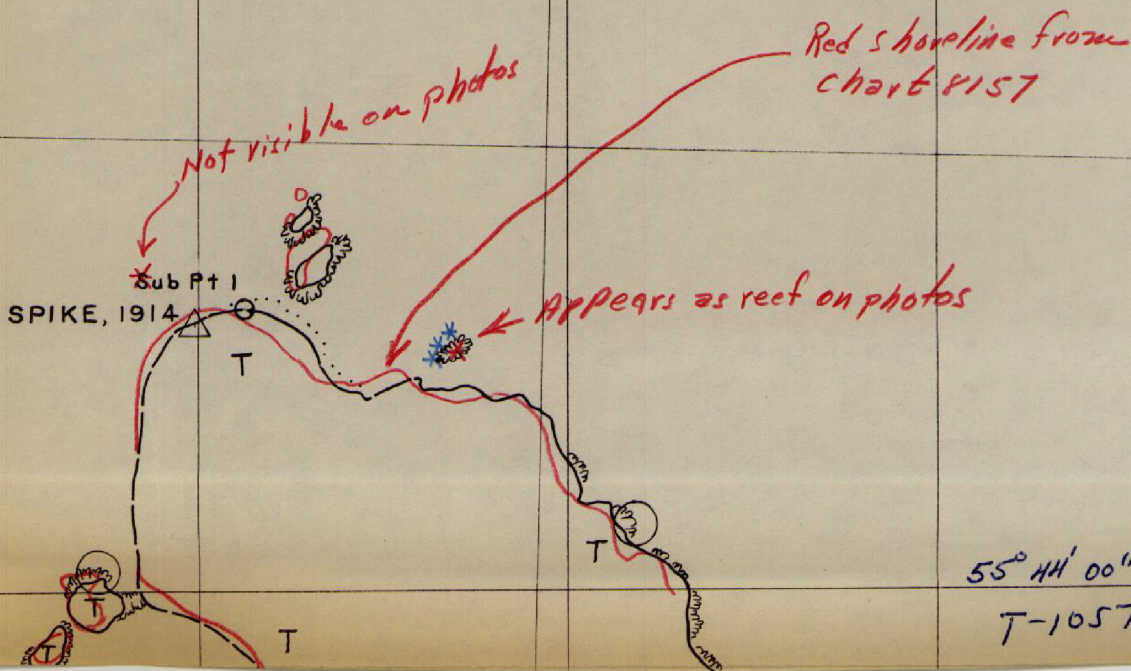
(T-10409)

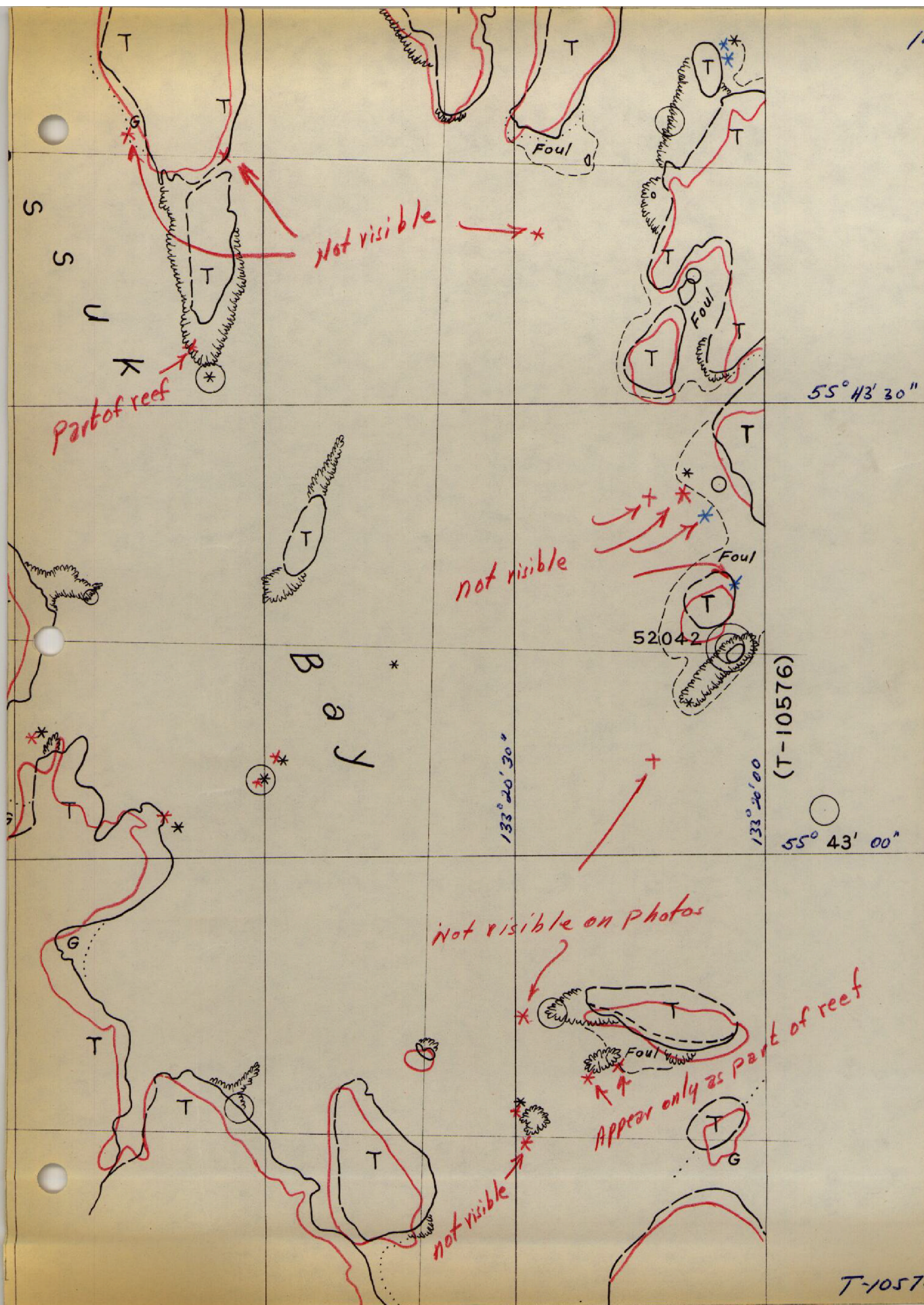
133° 22' 00"

55° 45' 00"

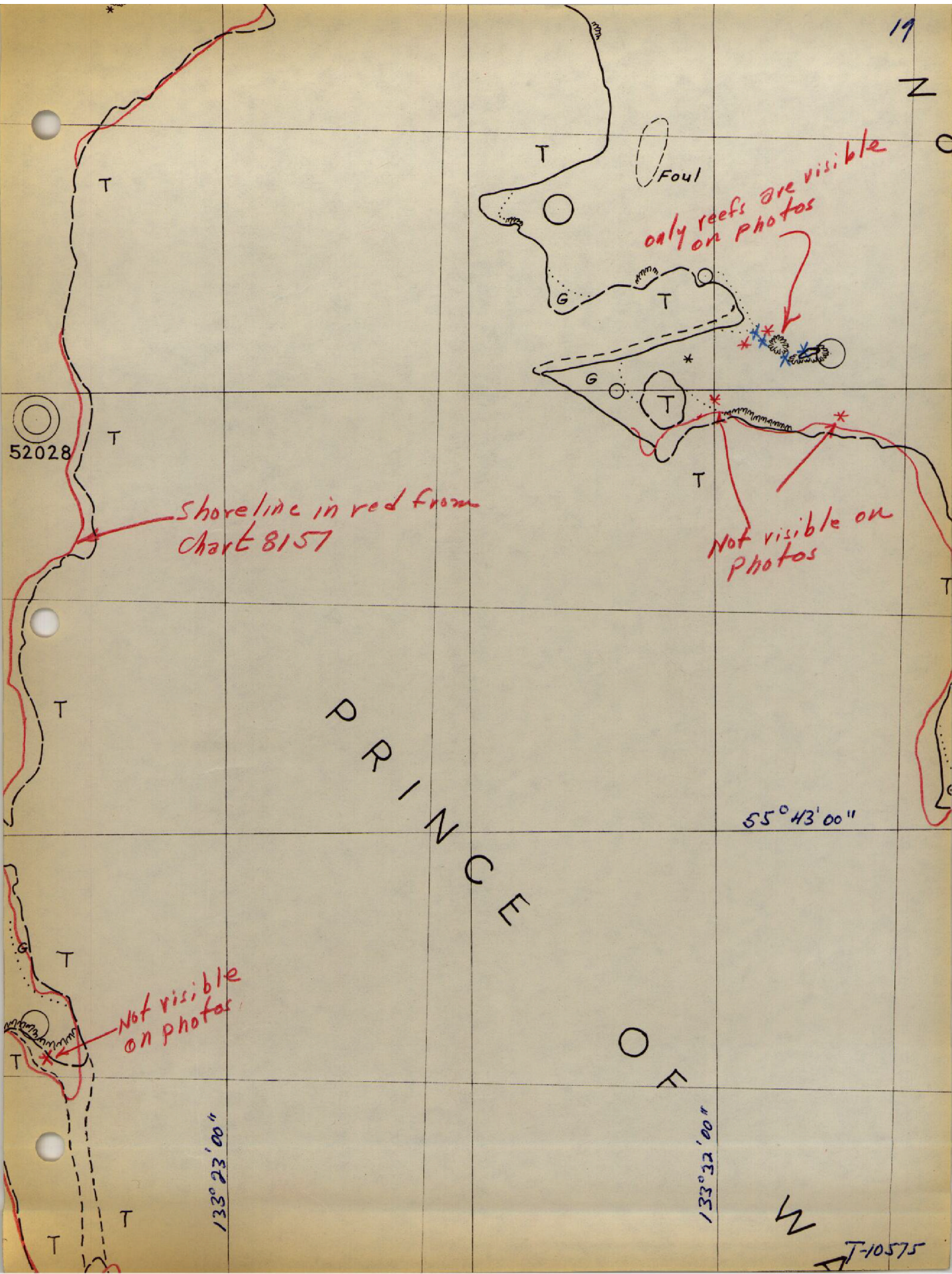
B a y

K





19
Z



52028

PRINCE

OF

55°43'00"

133°23'00"

133°32'00"

N

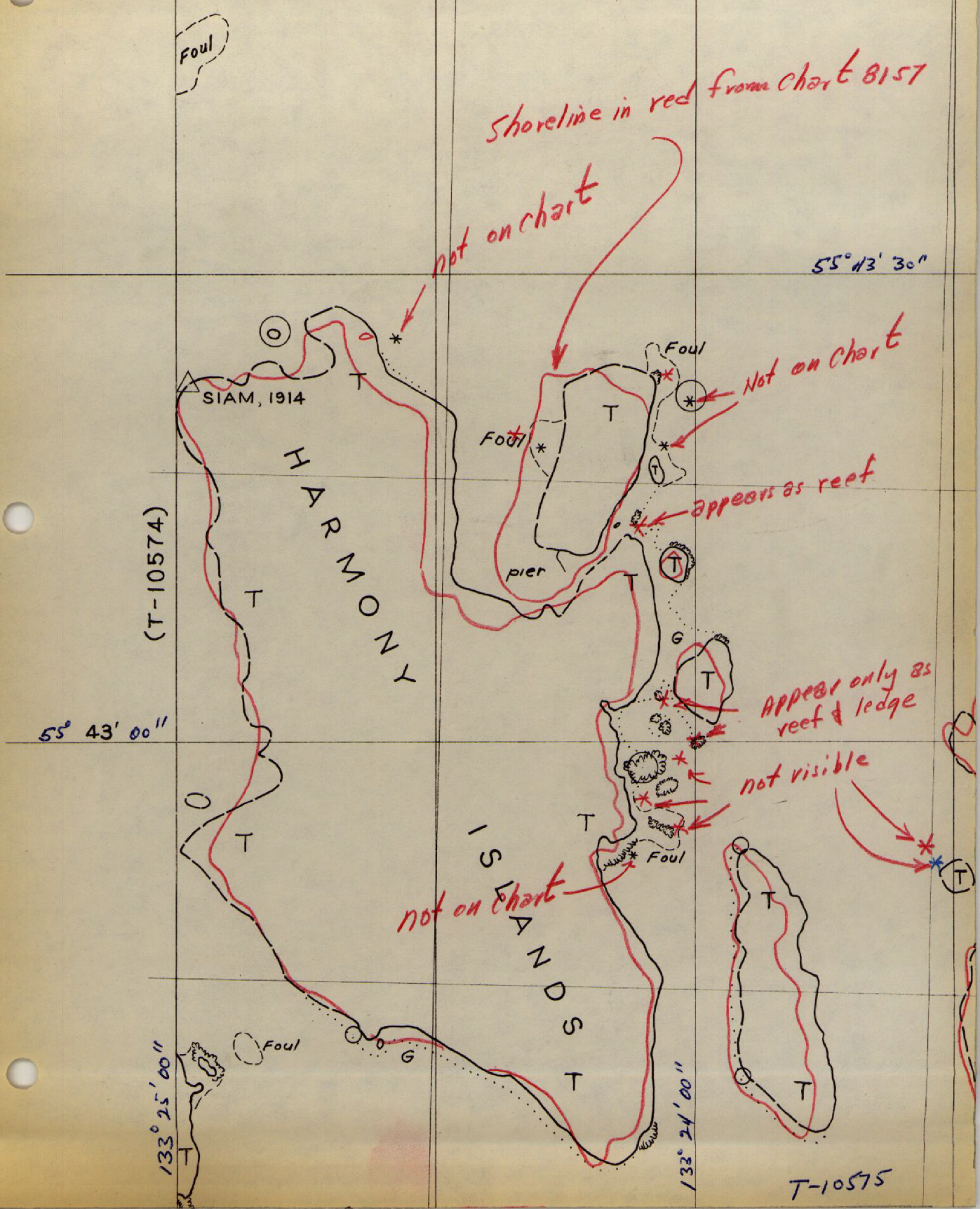
T-10575

Not visible on photos

only reefs are visible on photos

Shoreline in red from Chart 8157

Not visible on photos



21

ISLAND

42'

Shoreline in red from Chart 8157

SHORE

Bay

POI
U.T.M.
HORIZ

55°41'15"

133°20'00"

52026

21'

22-55
NONE
AY 1969

INCOMPLETE MANUSCRIPT

This manuscript is based on a final photogrammetric plot or field identified control, but the delineation of details is not complete. Copies are furnished at this time primarily for use of the hydrographic parties. Delineation will be completed later, after which

T-10575

T

52027

22
E
S

shoreline in red from Chart 8157

Appears as reef

not visible

Not visible

not on chart

Appear only as part
of reefs

Salt Lake
reefs only visible
on photos

(T-10581)

23'

22'

T-10575

DATE OF PHOTOS: 8-
DATE OF FIELD INSP
DATE OF FINAL REVIEW: M.

appears only
as reef

not visible

Not visible

not visible

shoreline in red
from Chart 8157

42'

y=6,173,000 m

55° 41' 15"

133° 25' 00"

x=600,000 m

24'

T-10575

