

10577

10577

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-10577
LOCALITY	
State	Alaska
General locality	Maurelle Islands
Locality	Wood Islands
1956	
CHIEF OF PARTY	
William F. Deane, Baltimore District Office	
LIBRARY & ARCHIVES	
DATE	

* THIS SURVEY IS INCOMPLETE. REFER TO
PAGES 14 AND 15

USCOMM-DC 37022-P68

DESCRIPTIVE REPORT - DATA RECORD

T -10577

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

PROJECT NO. (II):

PH-87

FIELD OFFICE (III):

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

~~XXXXXX~~ 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):

WOOD, 1922

LAT.:

55° 39' 38.865"

LONG.:

133° 43' 32.214"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y =

X =

Alaska

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 (II):		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Office interpretation of August 1956 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 EXTENSION 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
54590 and 54591	8-12-56	1500	1:10,000	6.3' above MLLW

TIDE (III)

Diurnal

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	Sitka, Alaska		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 (II):		RECOVERED:	IDENTIFIED: 2	
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 was no other information available.

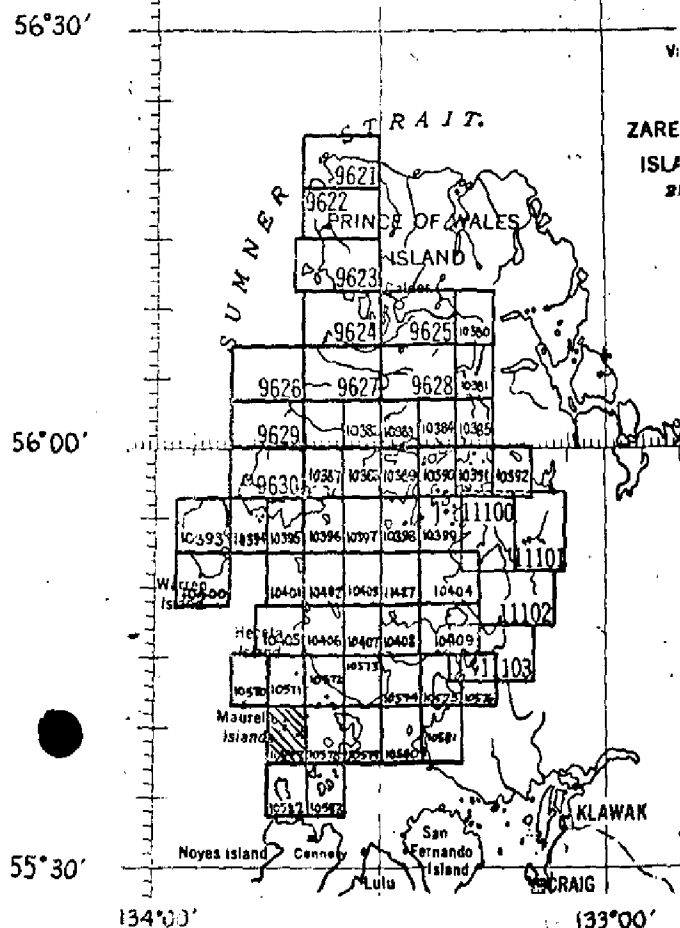
T-10577

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compiled	1958	
Final Review	June 1969	

SHORELINE MAPPING PROJECT PH- 87

Prince of Wales Island, Alaska

5



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	2
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 412 378

6

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-10577

Shoreline survey T-10577 is one of 58 similar surveys in project PH-87. It covers Wood Islands and Twin Islands which are part of the Maurell Islands. 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 1956. The survey was not field edited and there is nothing to indicate that the survey was ever provided for photo-hydro support use.

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.

7

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

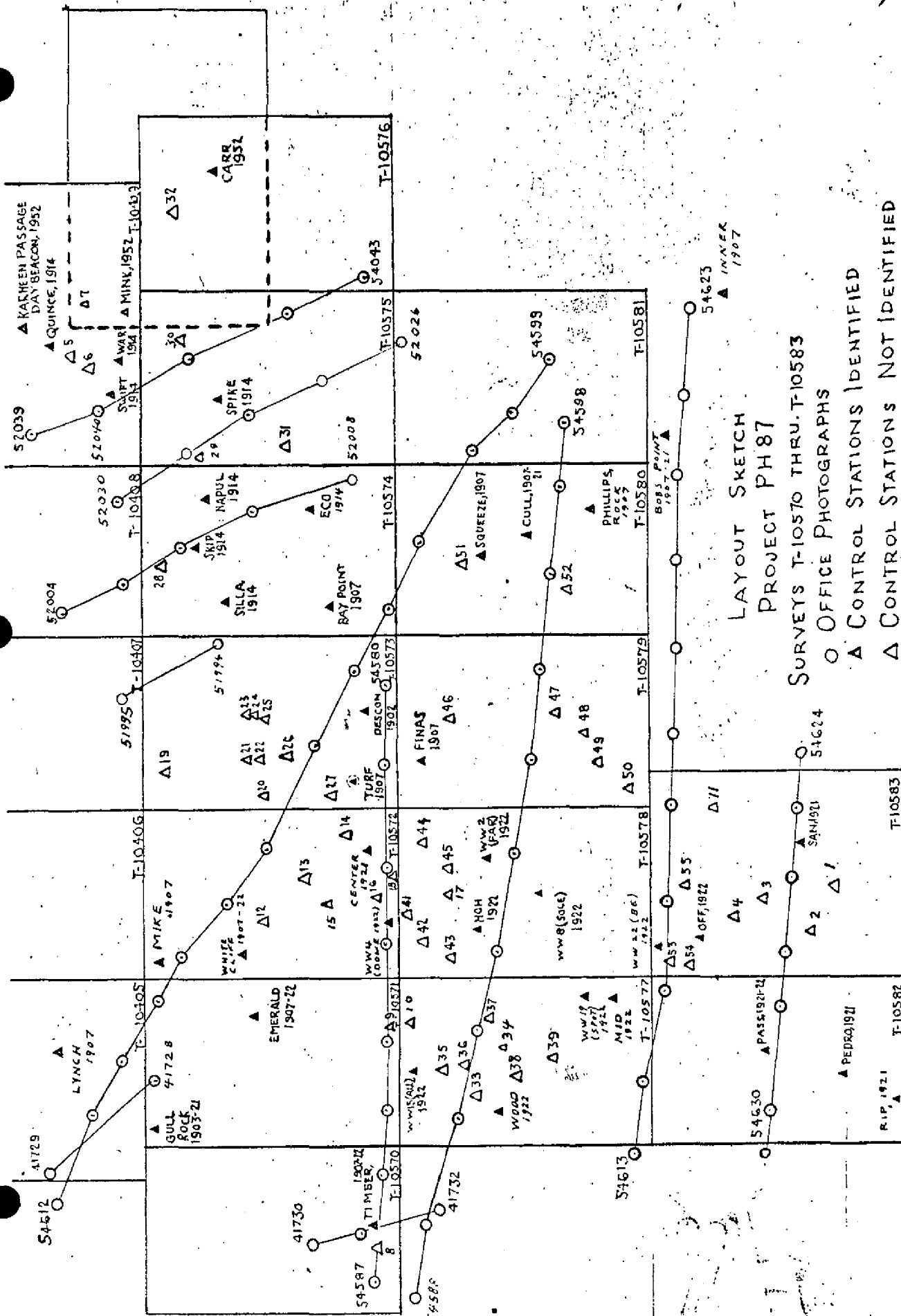
None.

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

MAP T- 10577 PROJECT NO. PH-87 SCALE OF MAP 1:10,000 SCALE FACTOR

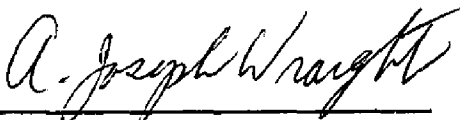
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD (BACK)
W.W. II (NIC), 1922	G609, pg 276	NA 1927	55° 40' 59.588"	
W.W. 12 (Gold), 1922	" " "	"	133 40 24.116	
W.W. 15 (ALL), 1922	" " 275	"	55 40 08.396	
W.W. 13 (AT), 1922	" " "	"	133 42 05.780	
W.W. 14 (WY), 1922	" " "	"	55 40 34.018	
W.W. 16, 1922	" " "	"	133 42 09.764	
W.W. 18 (TREE), 1922	" " "	"	55 40 20.896	
W.W. 19 (SPOT), 1922	" " "	"	133 42 05.704	
W.W. 21 (COP), 1922	" " "	"	55 39 34.934	
W.W. 20 (PETE), 1922	" " 274	"	133 42 51.994	
WOOD, 1922	" " 266	"	55 40 06.30	
MID, 1922	" " "	"	133 42 40.17	
COMPUTED BY			55 39 54.60	
			133 40 27.70	
			55 39 06.579	
			133 40 07.089	
			55 39 23.289	
			133 40 45.345	
			55 39 47.272	
			133 42 22.907	
			55 39 38.865	
			133 43 32.214	
			55 38 32.704	
			133 40 02.235	
COMPUTED BY	DATE	CHECKED BY	DATE	

2

GEOGRAPHIC NAMES
FINAL NAME SHEET
Ph-87 (Maurelle Islands, Alaska)
T-10577

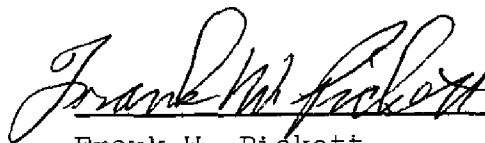
Epsilon Rock
Favorita Rock
Hendida Island
Iphigenia Bay
Lambda Rock
Maurelle Islands
Pacific Ocean
Princesa Island
Twin Islands
Wood Islands

Approved by:



A. Joseph Wraight
Chief Geographer

Prepared by:



Frank W. Pickett
Cartographic Technician

12

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 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. 10577

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 final reviewer.</i>			

14

REVIEW REPORT T-10577
SHORELINE
JUNE 10, 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 this time consisted of the vinylite manuscript, office photographs and field photographs which contained no information other ^{* see below} than the 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 January 1958 and the manuscript then compiled in the Washington office. The survey was not field edited and there is no contemporary hydrography within the area of the survey.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with a copy of registered survey No. 3407, 1:20,000 scale, made in 1914. The shoreline of that survey is not in good agreement with that of T-10577. The difference has been shown on the comparison print in blue.

Because of the stage of the tide at the time of photography and heavy kelp only a few of the rocks shown on survey 3407 were visible on the photographs. Those rocks that appear on neither the chart or T-10577 have also been indicated on the comparison print in blue.

The shoreline of T-10577 supersedes that of survey No. 3407 for nautical chart construction purposes. ^{See preceding paragraph. See B}

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS CRAIG (C-6) ALASKA, 15 x 20 minute 1:63,360 scale quadrangle, edition of 1951. Because of its scale the shoreline of the USGS quadrangle has been generalized and is not as intricate as that of T-10577.

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-10577. The difference has been shown on the comparison print in red.

Because of the stage of the tide at the time of photography and vast areas of kelp, only a few of the rocks shown on the chart are visible on the photographs. Those that are not visible have 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

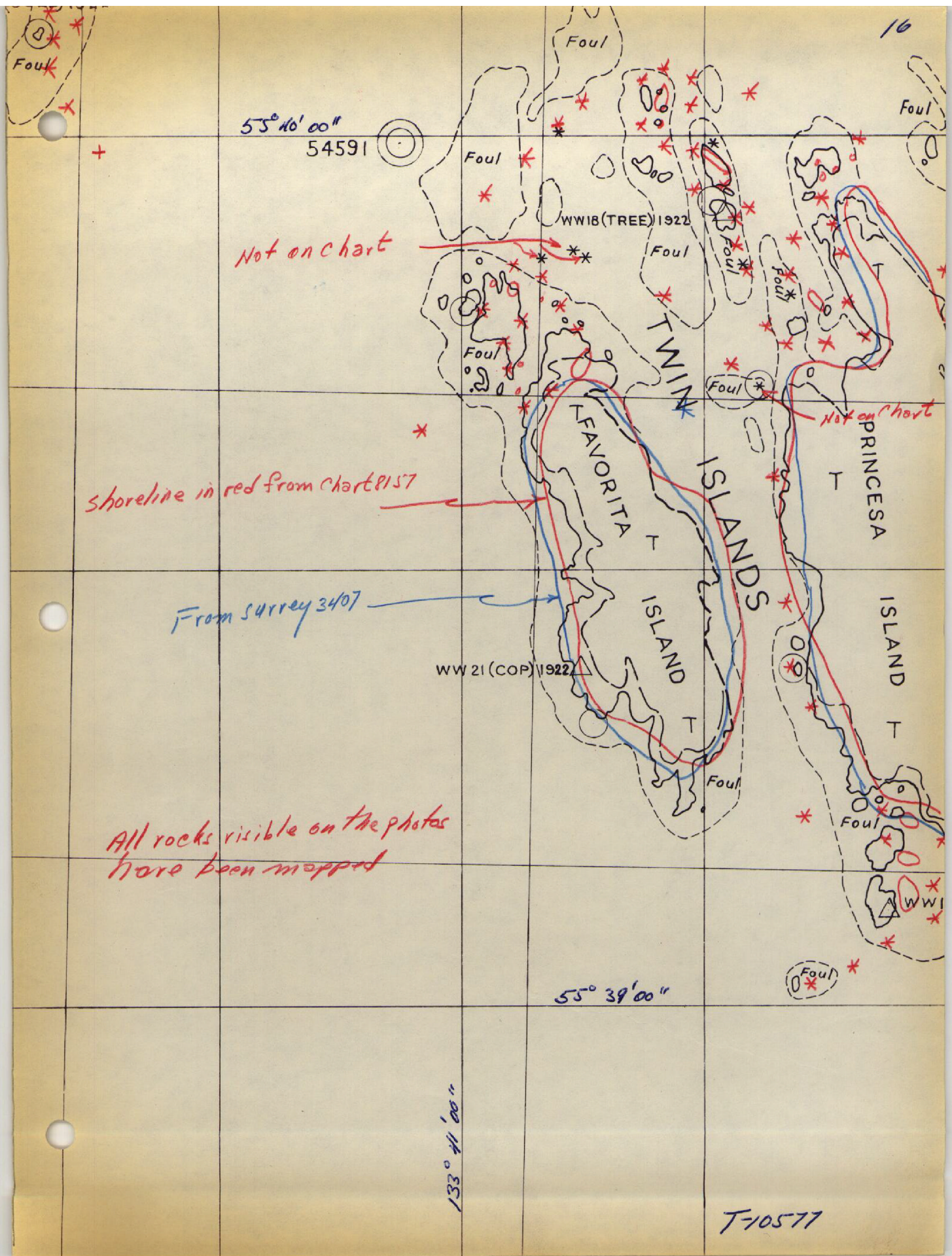
Approved by:

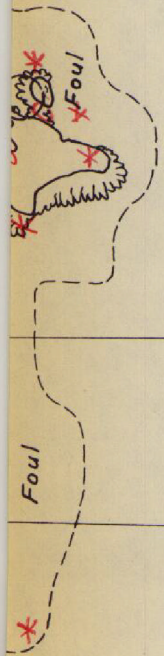
Everett V. Ramsey
Chief, Photogrammetric Branch *106*

R. H. Houlston
Chief, Photogrammetry Division

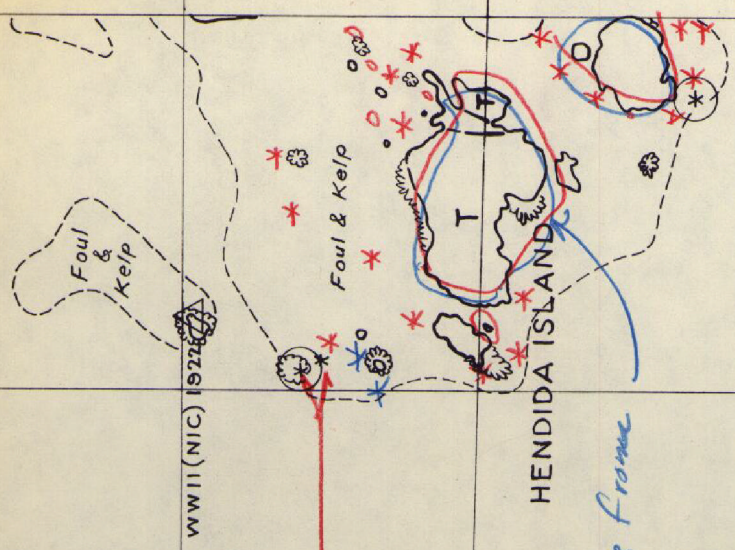
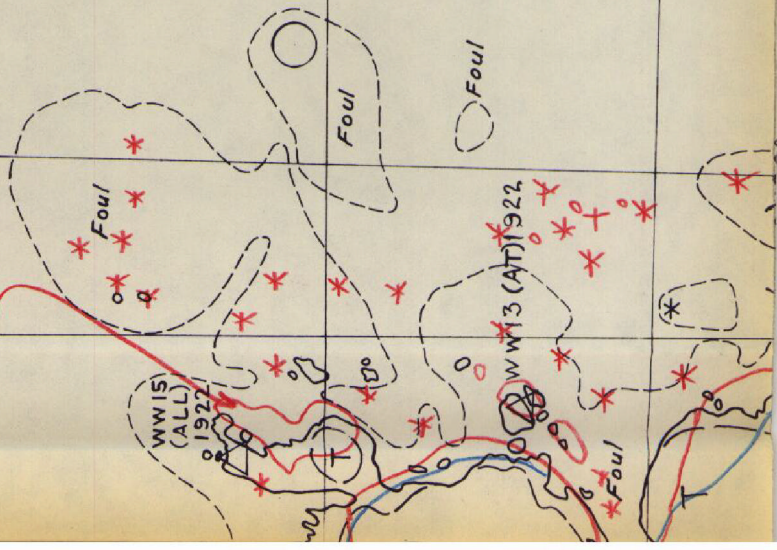
Chief, Nautical Chart Division

* THIS SURVEY IS INCOMPLETE (REFER TO PAGE 14, HEADING 6!).
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; & THE RADIAL PLOT
WAS CONSIDERED ADEQUATE TO SERVE AS CONTROL
FOR MAPPING TO MEET THE NATIONAL STANDARDS
OF MAP ACCURACY. *118*





shoreline in red from
chart 8157



not on chart

shoreline in blue from
survey 3407

All rocks visible on the
photos have been mapped

133° 41' 00"

133° 40' 00"

55° 46' 30"

y=6,171,000

4' 00"

IPHIGENIA BAY

All rocks visible on the photos
have been mapped

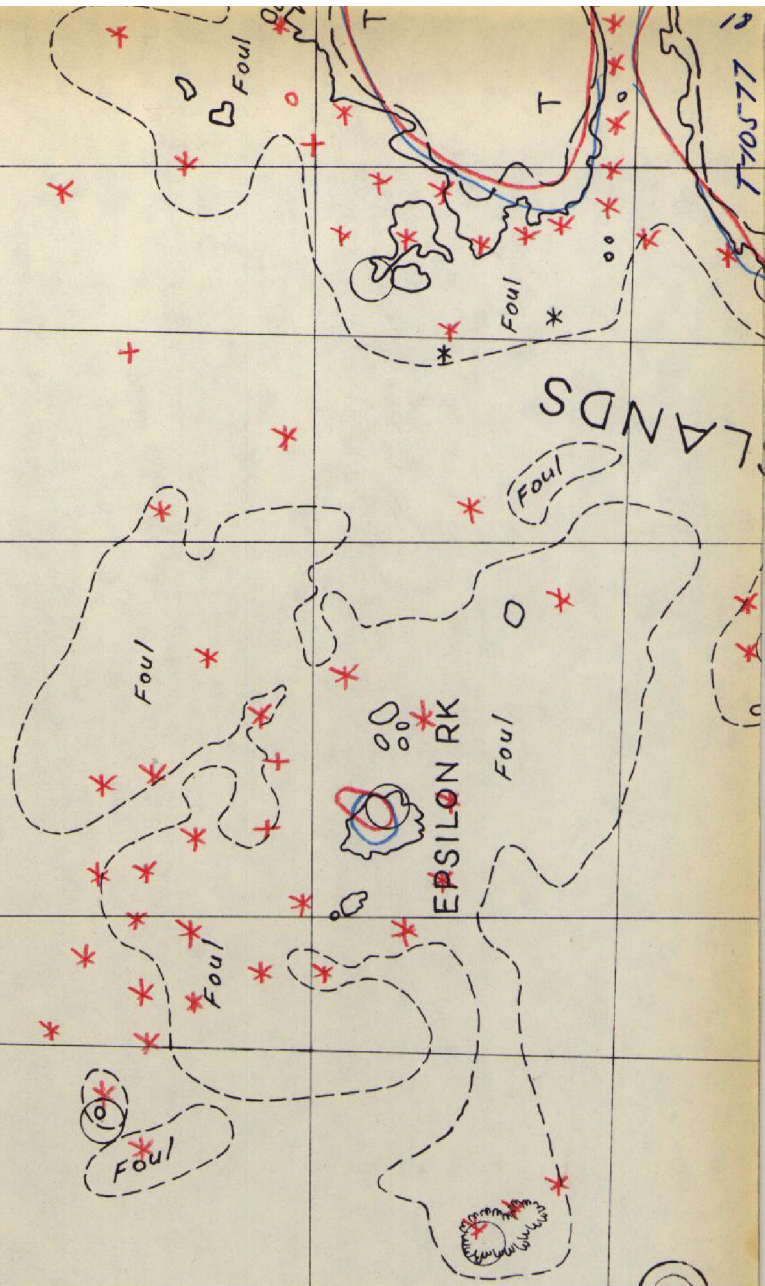
133° 41' 00"

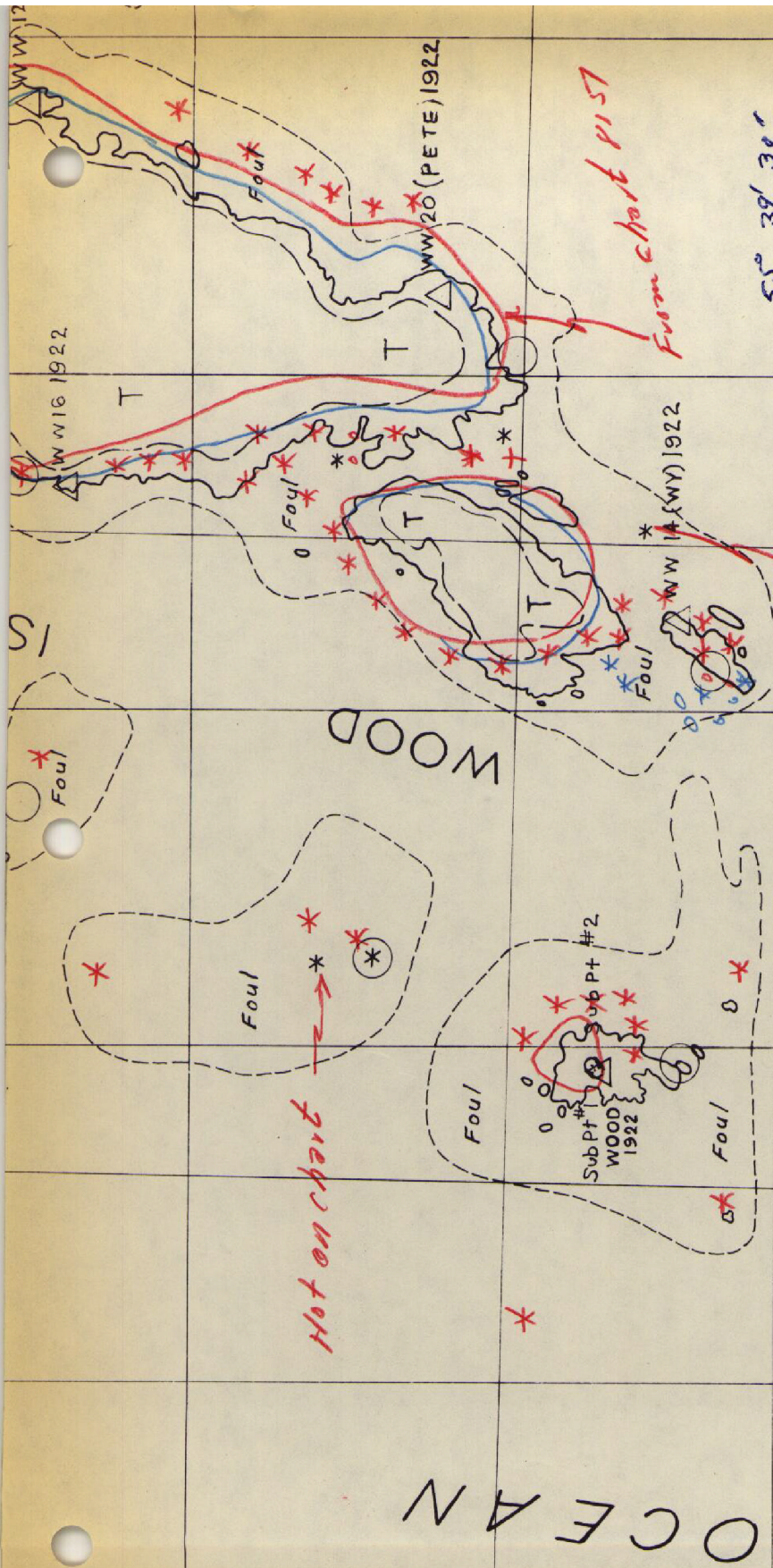
133° 43' 00"

55° 41' 00"

55° 40' 30"

54590





All rocks visible on the photos have been mapped

133° 44' 00"

133° 43' 00"

55° 39' 30"

T-10577

19