ORIGINAL

10583

10583

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey * Shoreline(Photogrammetric)

Field No. ..... Office No. T-10583

LOCALITY

State Alaska

General locality Maurelle Islands

Locality San Lorenzo Islands

19

CHIEF OF PARTY

William F. Deane, Baltimore District Office

LIBRARY & ARCHIVES

DATE

USCOMM-DC 5087

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

FORM C&GS-181a
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-10583

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

PROJECT NO. (II): PH-87

FIELD OFFICE (II):	CHIEF OF PARTY
USC&GS Ship HODGSON	
PHOTOGRAMMETRIC OFFICE (III):	**OFFICER-IN-CHARGE**
Baltimore, Maryland	William F. Deane

INSTRUCTIONS DATED (II) (III):

Office: Nov. 7, 1955
Nov. 13, 1956
July 15, 1957
Oct. 30, 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): NA 1927

VERTICAL DATUM (III): MHW
~~XXXXXXXXXXXX~~ 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): SAN, 1921

LAT.:	LONG.:	
55° 35' 20.147"	133° 36' 23.720"	[X] 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.

USCOMM-DC 36393A-P66

FORM C&GS-1816
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

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 OR ~~STEREOSCOPIC CONTROL~~ EXTENSION BY (III):	DATE
E. L. Williams	Jan. 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:

USCOMM-DC 36993-P66

FORM C&GS-181c (3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Nine-lens

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
54616 & 54617	8-12-56	1522	1:10,000	7.0' above MLLW
54625 thru 54627	8-12-56	1532	1:10,000	7.2' above MLLW

TIDE (III) Diurnal

	RATIO OF RANGES	MEAN RANGE	~~SPRING~~ RANGE
REFERENCE STATION: Sitke		7.7	9.9
SUBORDINATE STATION: Steamboat Bay, Noyes Island		8.0	10.1
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: 3

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 data available.

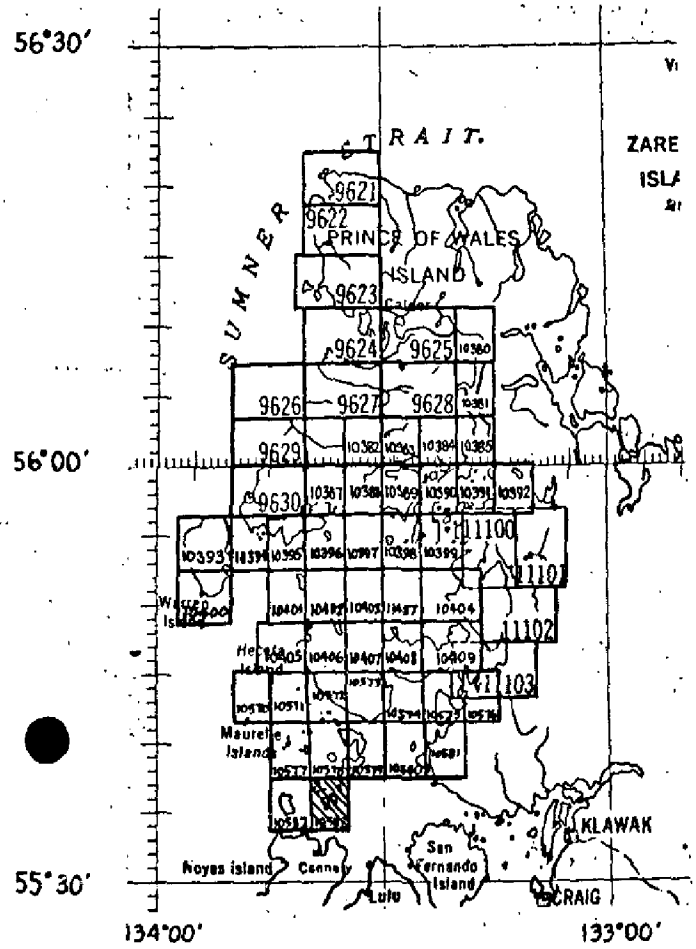
T-10583

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compiled	1958	
Final Review	June 1969	

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	4
10576	7	2
10577	1	1
10578	2	2
10579	6	6
10580	2	2
10581	12	9
10582	2	6
10583	2	5
TOTAL	412	378

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-10583

Shoreline survey T-10583 is one of 58 similar surveys in project PH-87. It covers a part of the Maurette Islands. See page 5 of this report for the area within the project.

The only field work accomplished for this survey consisted of the 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 1956. There is no record of this survey having been provided for photo-hydro support use.

The manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 6 minutes in longitude which was drafted and reproduced on cronaflex. One cronaflex positive and a negative are provided for record and registry.

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

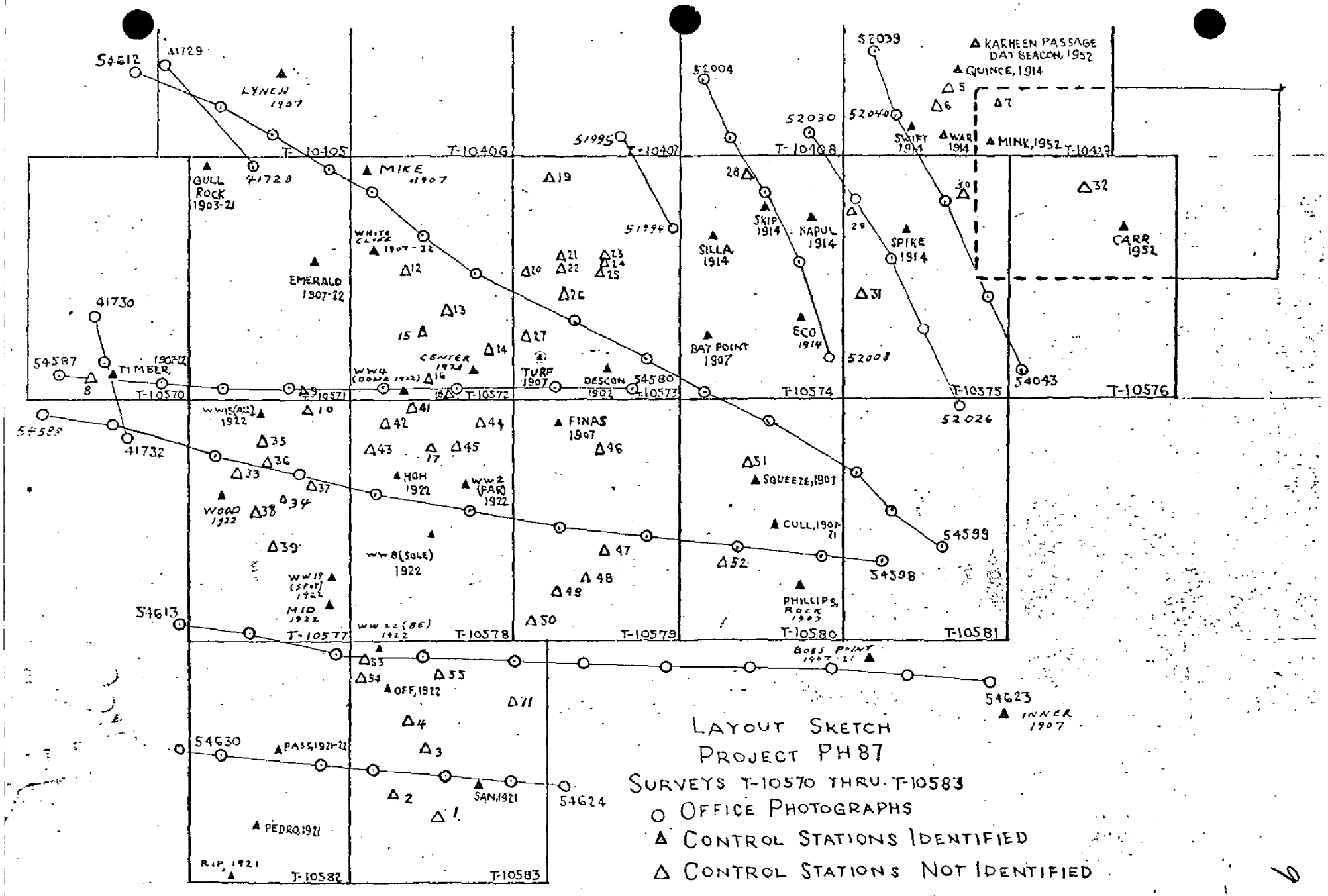
None.

25. PHOTOGRAPHY

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

Respectfully submitted
20 January 1958

E. L. Williams
Carto. (Photo.)



LAYOUT SKETCH
PROJECT PH 87
SURVEYS T-10570 THRU T-10583
○ OFFICE PHOTOGRAPHS
▲ CONTROL STATIONS IDENTIFIED
△ CONTROL STATIONS NOT IDENTIFIED

FORM C&GS-164
(4-68)
USCOMM-DC
50318-P68

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 10583 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)
			55°	35'	14.58"		
CHI, 1921	G 609, pg 268	NA 1927	133	37	40.66		
			55	35	20.147		
SAN, 1921	" "	"	133	36	23.720		
			55	36	46.76		
HUMP, 1921	" "	"	133	39	50.44		
			55	36	16.10		
NO, 1921	" "	"	133	38	51.64		
			55	35	43.736		
HILL, 1921	" pg 269	"	133	37	33.575		
			55	37	15.23		
TI, 1921	" pg 267	"	133	39	29.48		
			55	35	02.414		
MOOSE, 1921	" pg 266	"	133	37	16.923		
			55	37	21.28		
W.W. 22 (BE), 1922	" pg 275	"	133	39	09.41		
			55	36	57.254		
W.W. 24 (IN), 1922	" pg 274	"	133	38	54.671		
			55	36	45.015		
OFF, 1922	" "	"	133	39	24.470		
			55	36	29.602		
MOKE, 1907-21	" pg 251	"	133	34	48.648		
							10

COMPUTED BY DATE CHECKED BY DATE

GEOGRAPHIC NAMES

FINAL NAME SHEET

Ph-87 (Maurelle Islands, Alaska)

T-10583

Arriaga Passage

Beta Rock

Escurial Island

Esquibel Island

Flotilla Island

Gulf of Esquibel

Hacha Island

Maurelle Islands

Moke Rock

San Lorenzo Islands

Sonora Island

Sonora Passage

Toza Island

Approved by:

A. J. Wraight

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett

Frank W. Pickett
Cartographic Technician

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 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.

FORM C&GS-1002
(9-66)

U.S. DEPARTMENT OF COMMERCE
ESSA
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

50 T- 10583

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 ✓

Final

40. REVIEWER Leo F. Bergnet	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

This form prepared by the final reviewer.

REVIEW REPORT T-10583
SHORELINE
June 30, 1969

61. GENERAL STATEMENT

See Summary which is page 6 of this report.

This is an incomplete manuscript. ~~Most of~~ some 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

The identification of horizontal control is believed to have been accomplished during the 1957 field season. The radial plot was run in the Baltimore office 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 registered survey No. 3407, 1:20,000 scale, made in 1913. The shoreline of that survey is not in good agreement with that of T-10583. The difference has been noted on the comparison print in blue.

The high stage of the tide at the time of photography and large areas of kelp obscured many of the rocks on the photography. These have also been indicated in blue on the comparison print.

The shoreline of T-10583 supersedes that of survey No. 3407 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 agreement with that of T-10583.

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

As stated in item 62, the high stage of the tide at the time of photography, and large areas of kelp obscured many rocks. All rocks visible on the photographs have been mapped.

The difference in the shoreline of the two surveys and all rocks shown on the chart that are not visible on the photographs 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:

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

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet

Approved by:

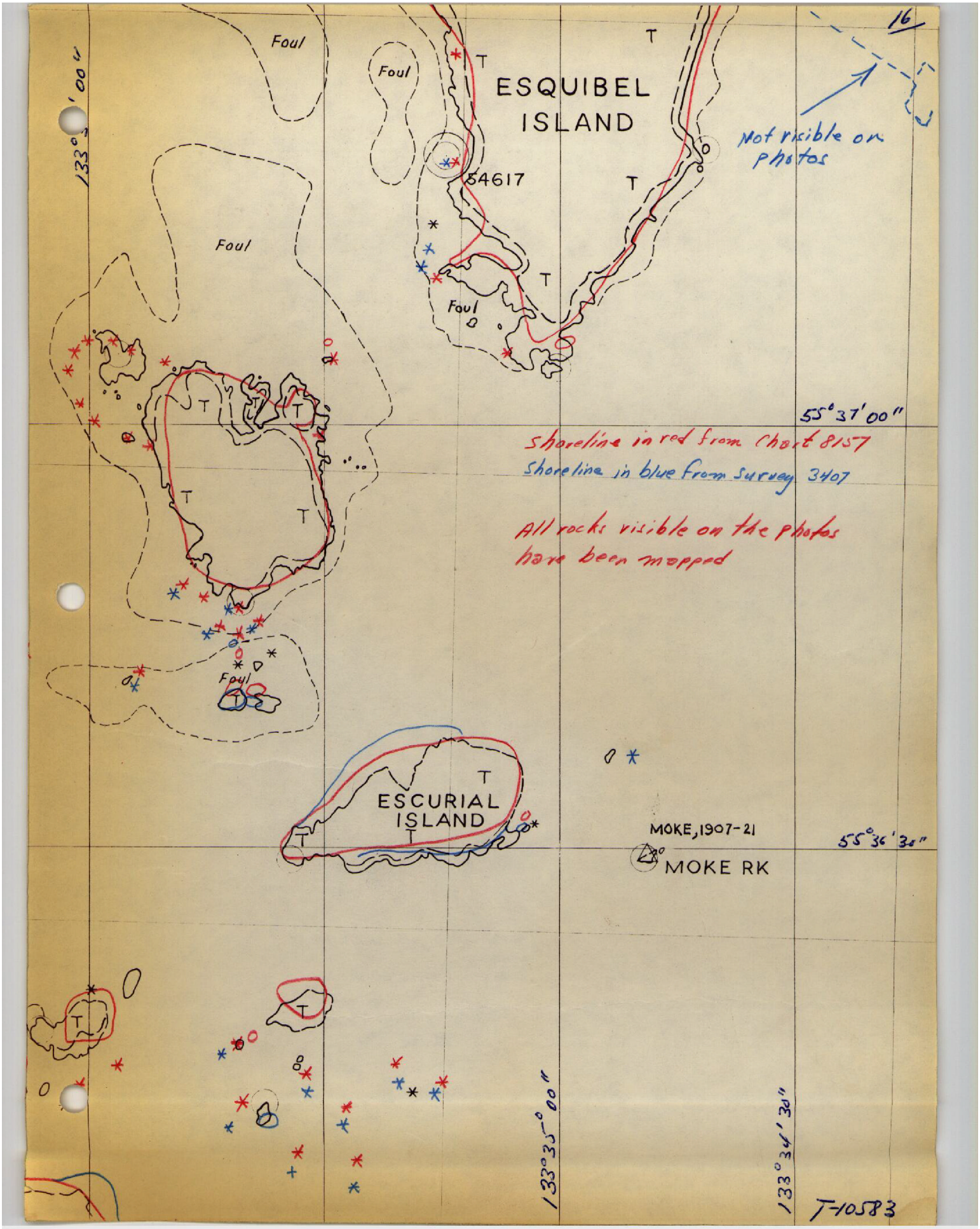
Everett V Ramey
Chief, Photogrammetric Branch JHB

R H Houlder
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 ACTIVITIES DUE TO INADEQUACIES IN PHOTOGRAPHY FOR COMPILATION PURPOSES (REFER TO PAGE 12 OF THIS REPORT) AND THE LACK OF FIELD CLARIFICATION AND VERIFICATION OF DETAILS.

BASIC MAP ACCURACY - HORIZONTAL CONTROL WAS FIELD IDENTIFIED; AND THE RADIAL PLOT WAS CONSIDERED ADEQUATE TO SERVE AS CONTROL FOR MAPPING TO MEET THE NATIONAL STANDARDS OF MAP ACCURACY J.Y.B


16
ESQUIBEL ISLAND
Not visible on photos
54617
Foul
Foul
Foul
Foul
Foul
133° 30' 00"
55° 37' 00"
Shoreline in red from Chart 8157
Shoreline in blue from Survey 3407
All rocks visible on the photos have been mapped
ESCURIAL ISLAND
MOKE, 1907-21
MOKE RK
55° 36' 30"
133° 33' 00"
133° 34' 30"
T-10583

54616

Shoreline in blue from Survey 3407
Shoreline in red from chart 8157

All rocks visible on the photos have been mapped

133°38'00"

55°37'00"

55°36'30"

133°37'00"

BETA RK

Foul

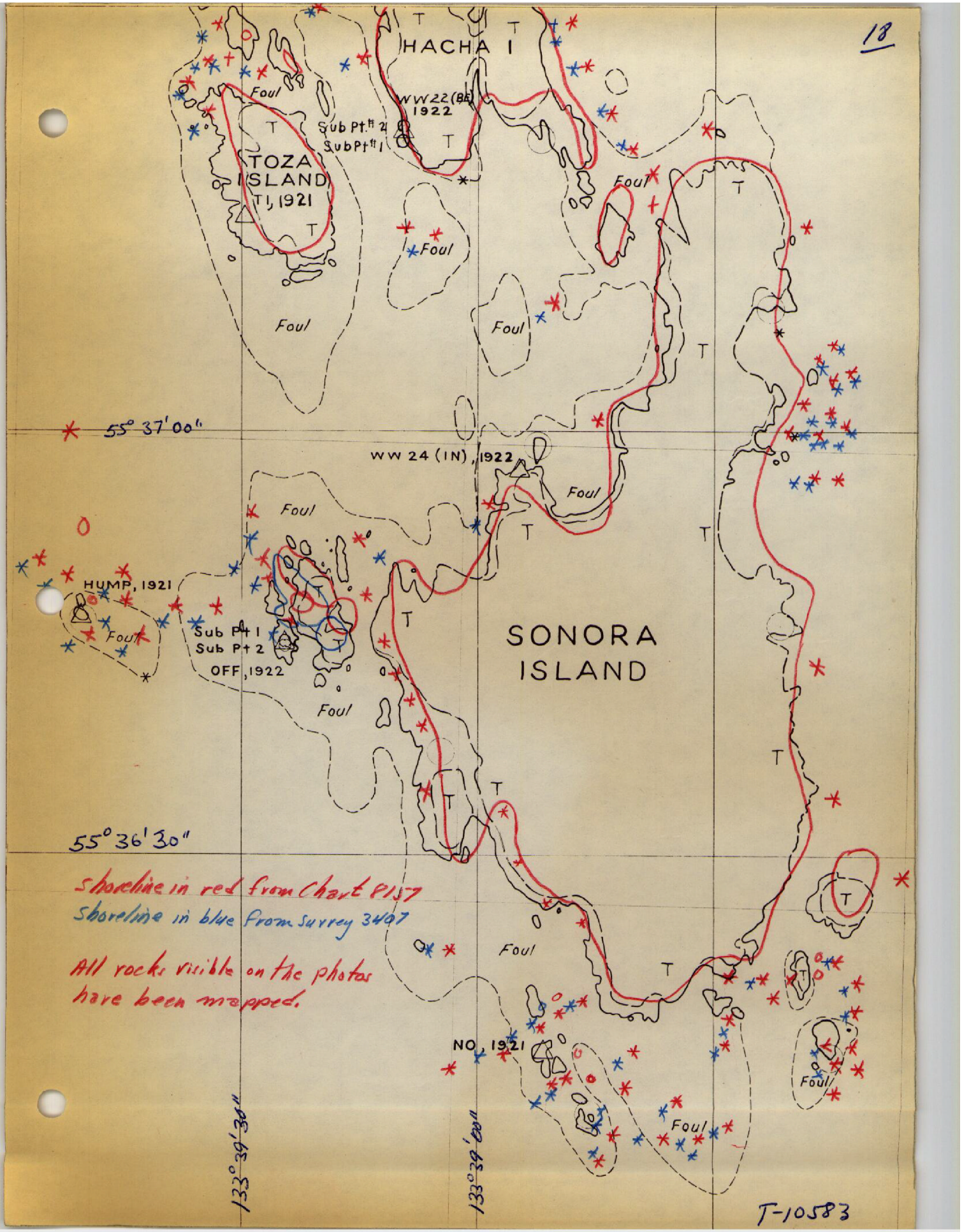
FLOTILLA ISLAND

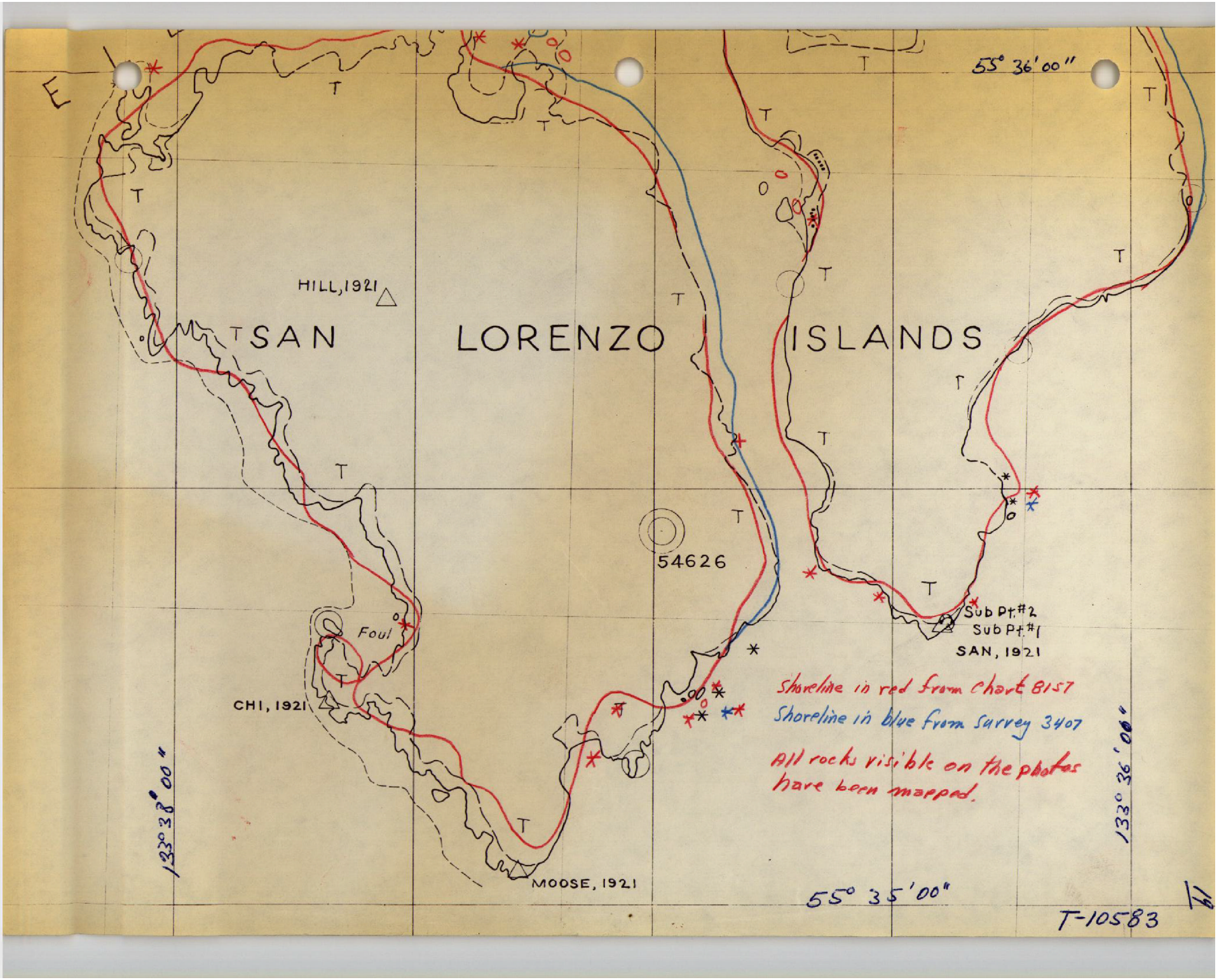
Foul

Foul

ISLANDS

T-10583


HACHA I
WW22 (BE) 1922
Sub Pt. # 2
Sub Pt # 1
TOZA ISLAND
T, 1921
Foul
55° 37' 00"
WW 24 (IN), 1922
HUMP, 1921
Sub Pt 1
Sub Pt 2
OFF, 1922
SONORA ISLAND
55° 36' 30"
NO, 1921
133° 39' 30"
133° 39' 00"
Shoreline in red from Chart #1377
Shoreline in blue from Survey 3407
All rocks visible on the photos have been mapped.
T-10583


55° 36' 00"
HILL, 1921
SAN LORENZO ISLANDS
54626
Sub Pt. #2
Sub Pt. #1
SAN, 1921
Foul
CHI, 1921
MOOSE, 1921
133° 38' 00"
133° 36' 00"
55° 35' 00"
Shoreline in red from chart 8157
Shoreline in blue from survey 3407
All rocks visible on the photos have been mapped.
T-10583