

10571

ORIGINAL

10571

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey [*] Shoreline (Photogrammetric)	
Field No.	Office No. T-10571
LOCALITY	
State	Alaska
General locality	Heceta Island
Locality	Emerald Island
1953-1956	
CHIEF OF PARTY	
William F. Deane, Baltimore Dist. Office	
LIBRARY & ARCHIVES	
DATE	

* This an "incomplete" survey

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T- 10571

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):		VERTICAL DATUM (III):
N.A. 1927		MHW MEAN LOW WATER 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):		
EMERALD, 1907-22		
LAT.:	LONG.:	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
55° 43' 57.443"	133° 40' 40.762"	
PLANE COORDINATES (IV):		STATE
Y =		Alaska
X =		ZONE
		UTM 8
MAN 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:
USC&GS Ship HODGSON*		1957
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 STEREOGRAPHIC 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:		
*Identification of horizontal control only.		

DESCRIPTIVE REPORT - DATA RECORD

MERA (KIND OR SOURCE) (III):

Nine-lens

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
54584 & 54585	8-12-56	14:48	1:10,000	6.0' above MLW
54609	8-12-56	15:12	1:10,000	6.6' above MLW
41728	8-22-53	14:40	1:10,000	6.1' above MLW

TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Sitka, Alaska		7.7	9.9
SUBORDINATE STATION: Anguilla Island		8.2	10.3
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 (III):

RECOVERED:

3

IDENTIFIED:

2

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

RECOVERED:

0

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

0

REMARKS:

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

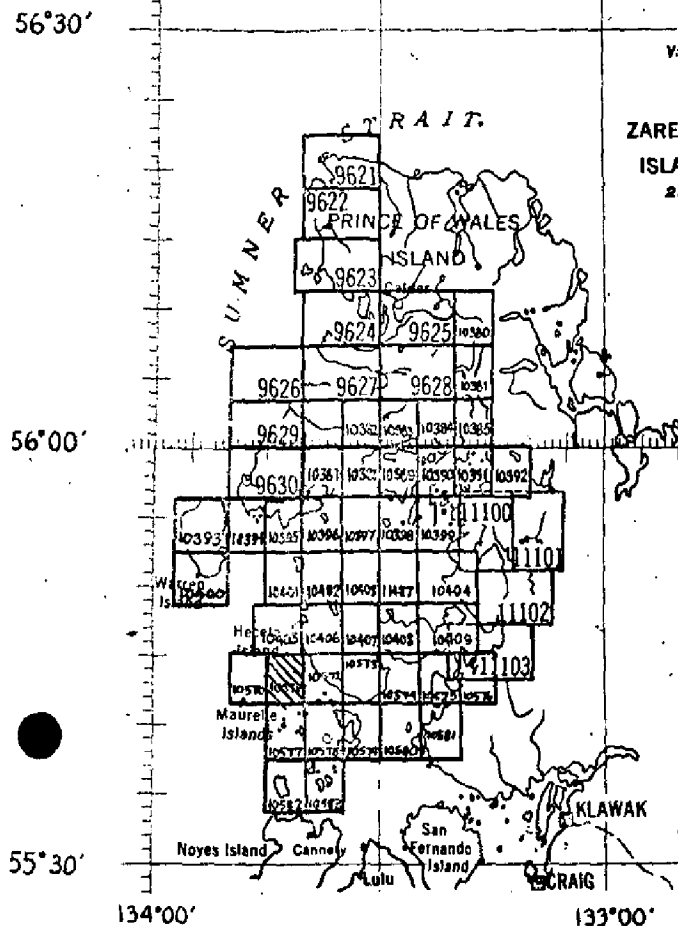
T-10571

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compiled	1958	
Final Review	May 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	1
10576	7	2
10577	1	1
10578	2	2
10579	4	6
10580	2	2
10581	12	9
10582	2	6
10583	2	5

TOTAL 412 378

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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-10571

Shoreline survey T-10571 is one of 58 similar surveys in project PH-87. It covers Emerald Island, Raso and Feather Rocks and a part of Gull Island. See page 5 of the descriptive report for the area within the project.

This is an incomplete manuscript. Field work consisted of identification of horizontal control. There was no field inspection, field edit or contemporary hydrography in the area.

Compilation was at 1:10,00 scale by graphic methods using the nine-lens photography of August 1953 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 smooth 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

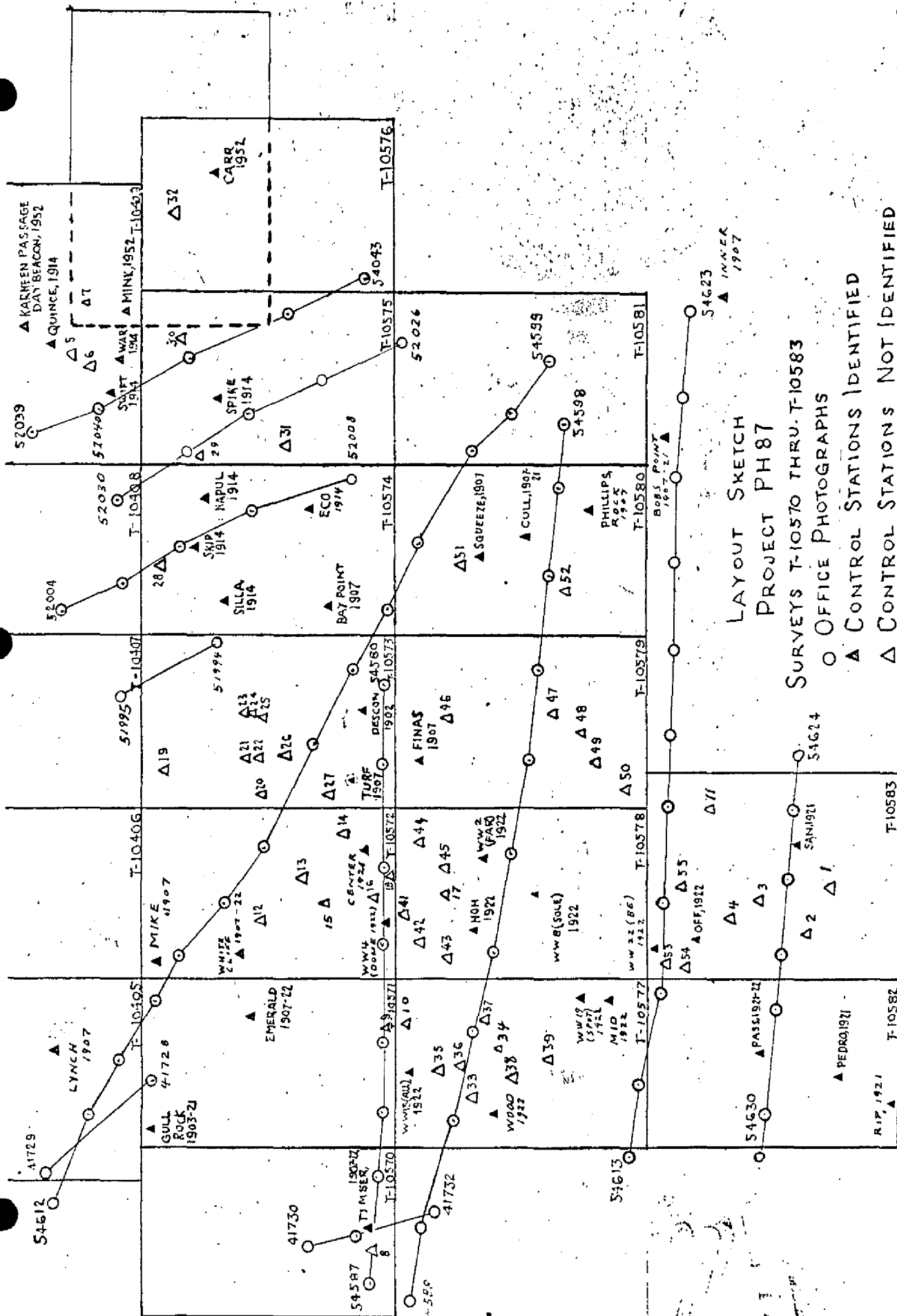
None.

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.)



GEOGRAPHIC NAMES

FINAL NAME SHEET

Ph-87 (Iphigenia Bay, Alaska)

T-10571

Emerald Island

Feather Rock

Gull Island

Iphigenia Bay

Raso Rock

Approved by:

A. J. Wright

A. Joseph Wright
Chief Geographer

Prepared by:

Frank W. Pickett
Frank W. Pickett
Cartographic Technician

PHOTOGRAMMETRIC OFFICE REVIEW

T-10571

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. Bagnett</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>			

REVIEW REPORT T-10571
SHORELINE
MAY 6, 1969

61. GENERAL STATEMENT:

See Summary accompanying the descriptive report.

This is an incomplete manuscript. Nearly all data for this survey had become lost prior to final review. Data available at the time of final review consisted of the map manuscript, office photographs and one field photograph. The field photograph contained no data other than identification of horizontal control. There was no field inspection, field edit or contemporary hydrography within the limits of the map.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with a copy of 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-10571. The difference has been shown on the comparison print in blue.

The high stage of the tide at the time of photography plus large areas of kelp prevented location of all but a few of the rocks in the area photogrammetrically.

Survey T-10571 supersedes the prior survey for nautical chart construction purposes. * see below

?

56.8

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS CRAIG (C-6) ALASKA, 15x20 minute quadrangle, 1:63,360 scale 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-10571. The difference has been shown on the comparison print in red.

* NO FIELD CHECK FOR THIS SURVEY AND AS INDICATED THE PRIOR SURVEY INCLUDED CONSIDERABLE ADDITIONAL ROCK INFORMATION REQUIRED FOR CHARTING
56.8

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As stated in item 62, the high stage of the tide at the time of photography and large areas of kelp prevented identification of all but a few of the rocks within the area. Rocks appearing on the chart that are not identifiable on the photographs have been indicated on the comparison print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

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 J. Plummer
Chief, Photogrammetric Branch
JBP

R. H. Houlton
Chief, Photogrammetry Division

Chief, Nautical Chart Division

* THIS IS AN INCOMPLETE SURVEY. REFER TO PAGE 13, HEADING 61

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A NEW BASIC SURVEY IS RECOMMENDED FOR USE IN
CHARTING AND HYDROGRAPHIC SURVEYING DUE TO
THE LACK OF FIELD CLARIFICATION OF DETAILS.

55°45'00"

133°46'00"

133°41'00"

54609

RASO RK

EMERALD I

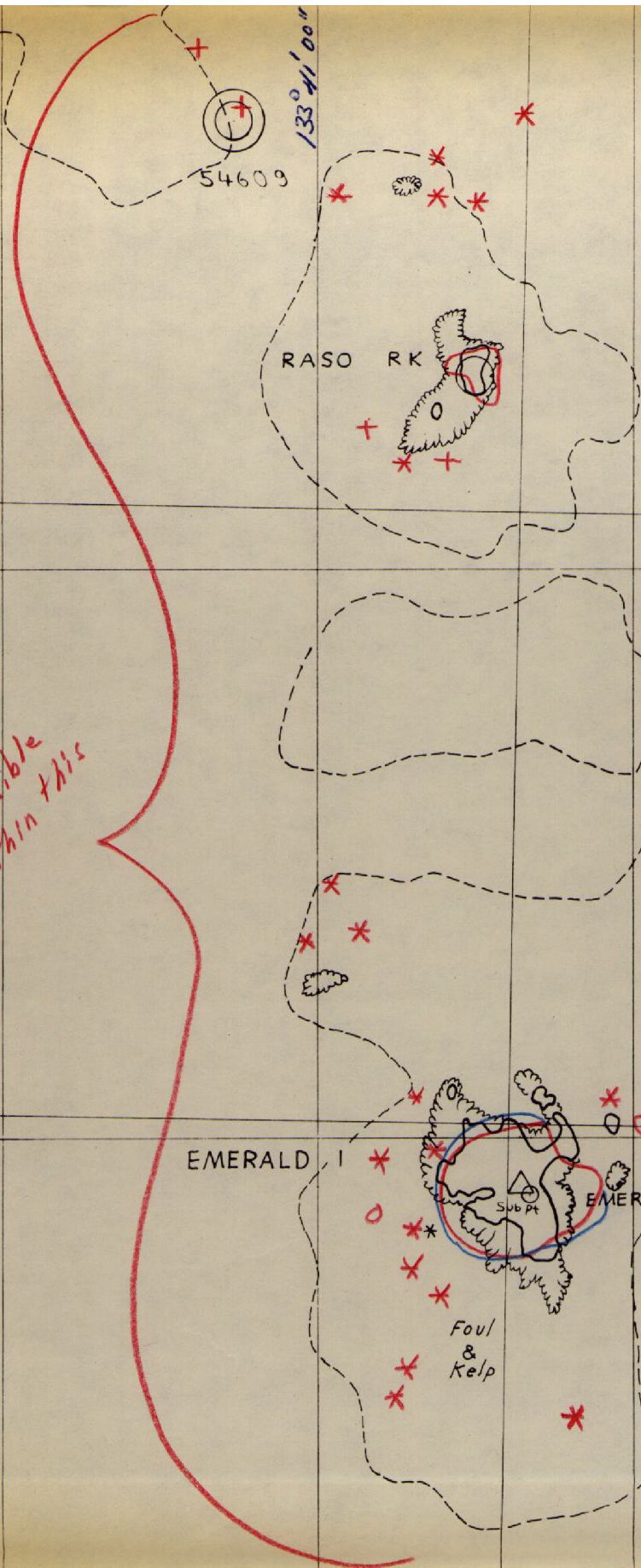
EMERALD 1907-22

55°44'00"

Foul
&
Kelp

T-10571

There are no rocks visible
on the photo within this
area



GULL 1903 1921

Sub Pt

GULL 1

41728

Not visible
on photos

55° 45' 00"

55° 44' 00"

133° 45' 00"

133° 44' 00"

J-10571

133° 41' 00"

55° 42' 00"

SHORELINE MANUSCRIPT
T-10571

SCALE 1:10 000

HECETA ISLAND
EMERALD ISLAND

POLYCONIC PROJECTION
UTM ALASKA GRID ZONE 8
HORIZONTAL DATUM NA 1927

54584

FEATHER 1907-22

FEATHER RK

reef

Appears as reef
on photos

Not visible (kelp)

Not visible

INCOMPLETE MANU

This manuscript is based on a final photogrammetric control, but the delineation of details is not complete. Copies are primarily for use of the hydrographic parties. Delineated later, after which final copies of the manuscript will be available.

T-10571

Foul
& Kelp

No rocks visible (kelp)

FEB 6

55° 41' 15"

133° 40' 00"