

10572

10572

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey <sup>*</sup> Shoreline (Photogrammetric)	
Field No.	Office No. T-10572
LOCALITY	
State	ALASKA
General locality	Heceta Island
Locality	Twocrack Island
<del>1956</del> 1953-1958	
CHIEF OF PARTY	
William F. Deane, Baltimore Dist. Officer	
LIBRARY & ARCHIVES	
DATE	

USCOMM-DC 5087

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

## DESCRIPTIVE REPORT - DATA RECORD

T - 10572

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

PROJECT NO. (II):

PH-87

FIELD OFFICE (III):

USC&amp;GS Ship HODGSON

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Baltimore, Maryland

OFFICER-IN-CHARGE

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):

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):

N.A. 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):

White Cliff, 1907-22

LAT.:

55° 43' 45.953"

LONG.:

133° 38' 31.375"

☒ 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:
USC&GS Ship HODGSON*		1958
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:		
*Identification of horizontal control and small amount of field edit.		

## DESCRIPTIVE REPORT - DATA RECORD

MERA (KIND OR SOURCE) (III):

Nine-lens

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
41714	8-22-53	1430	1:10,000	6.4' above MLLW
54582 & 54583	8-12-56	1450	1:10,000	6.0' above MLLW
54606 thru 54608	8-12-56	1510	1:10,000	6.6' above MLLW

## TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	XXXXX 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):

10

RECOVERED:

IDENTIFIED:

3

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

RECOVERED:

IDENTIFIED

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

6

REMARKS:

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

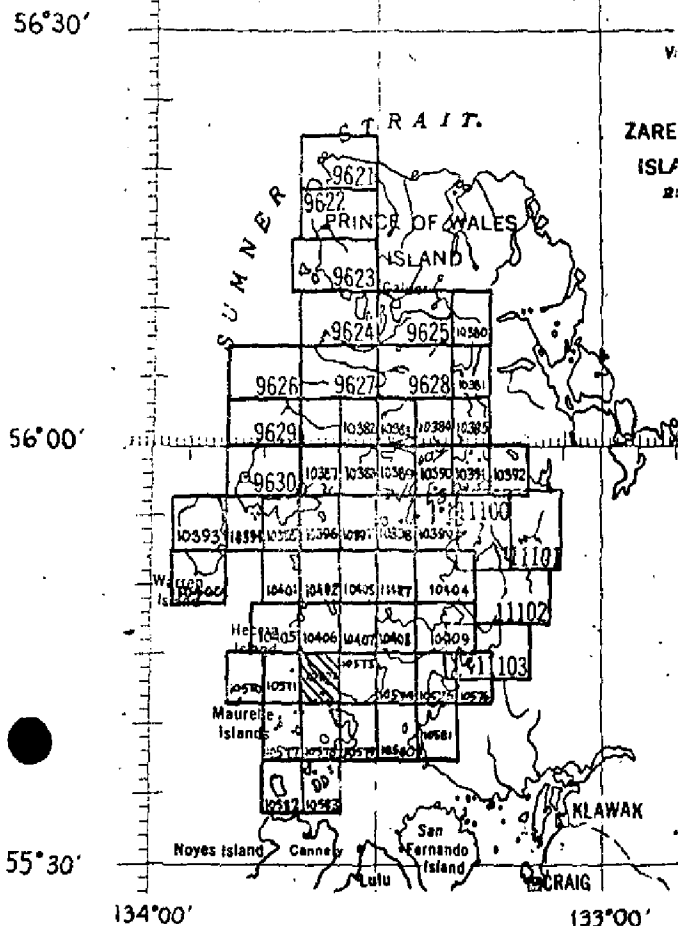


COMPILATION RECORD	COMPLETION DATE	REMARKS
Identification of Control	1957	
Field Edit (Partial)	1958	
Final Review	May 1969	

# 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	3	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 432 378

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-10572

Shoreline survey T-10572 is one of 58 similar surveys in project PH-87. It covers part of the southwest shore of Heceta Island in the vicinity of Twocrack 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 and a small amount of field edit in the northwest part of the survey. There is no contemporary hydrography within the limits of the map.

Compilation was at 1:10,000 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 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

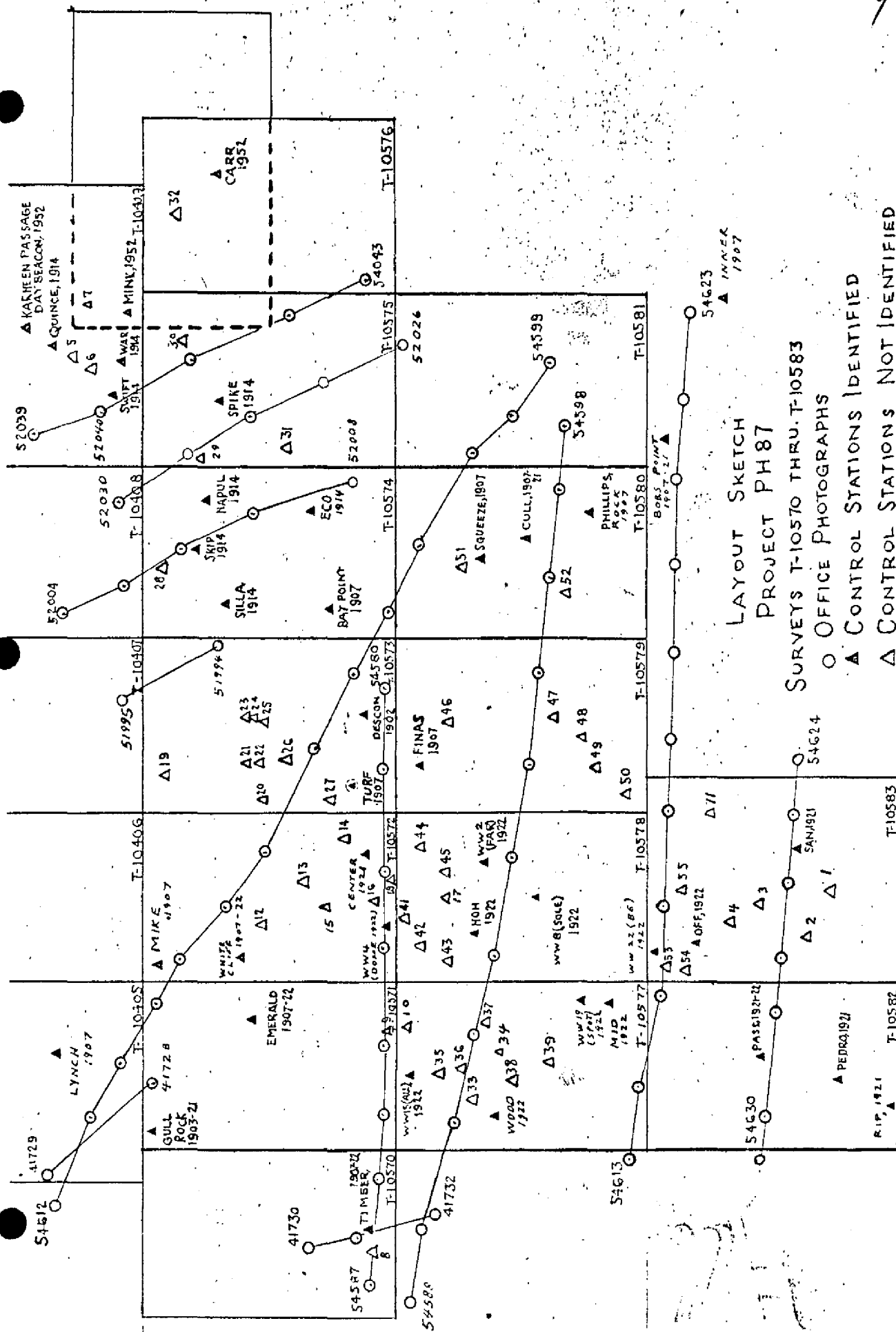
None.

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- 10572 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)
MIKE, 1907	Vol.1, pg.252	NA 1927	55° 44' 54.566"	
			133° 39' 48.825"	
WHITE CLIFF, 1907-22	Vol.1, pg.207	"	55° 43' 45.953"	
			133° 38' 31.375"	
LOST, 1907	Vol.1, pg.253	"	55° 43' 14.163"	
			133° 37' 20.232"	
DOG, 1907	Vol.1, pg.253	"	55° 42' 37.191"	
			133° 35' 44.218"	
CRACK, 1907	Vol.1, pg.252	"	55° 42' 09.006"	
			133° 36' 43.980"	
TWIN, 1907	Vol.1, pg.250	"	55° 41' 36.588"	
			133° 37' 46.779"	
W.W.4 (DOME), 1922	Vol.1, pg.277	"	55° 41' 28.937"	
			133° 37' 57.258"	
W.W.5 (POLE), 1922	Vol.1, pg.276	"	55° 41' 19.114"	
			133° 36' 40.309"	
BUSH, 1907	Vol.1, pg.250	"	55° 41' 40.404"	
			133° 35' 25.764"	
CENTER, 1921	Vol.1, pg.207	"	55° 41' 36.428"	
			133° 35' 44.399"	
COMPUTED BY	DATE	CHECKED BY	DATE	10

GEOGRAPHIC NAMES

FINAL NAME SHEET

Ph-87 (Iphigenia Bay, Alaska)

T-10572

Bocas de Finas

Bushtop Island

Dead Tree Point

Dome Islets

Heceta Island

Iphigenia Bay

Tonina Island

Twocrack Island

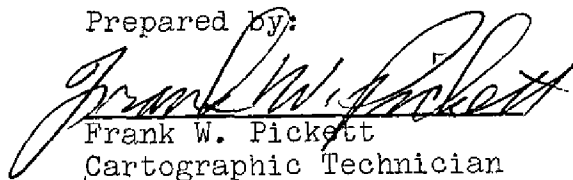
White Cliff

Approved by:



A. Joseph Wright  
Chief Geographer

Prepared by:



Frank W. Pickett  
Cartographic Technician



## PHOTOGRAMMETRIC OFFICE REVIEW

T-10572

1. PROJECTION AND GRIDS ✓	2. TITLE ✓	3. MANUSCRIPT NUMBERS ✓	4. MANUSCRIPT SIZE ✓
<b>CONTROL STATIONS</b>			
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 ✓
<b>ALONGSHORE AREAS (Nautical Chart Data)</b>			
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 ✓
<b>PHYSICAL FEATURES</b>			
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
<b>CULTURAL FEATURES</b>			
27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
<b>BOUNDARIES</b>			
31. BOUNDARY LINES		32. PUBLIC LAND LINES	
<b>MISCELLANEOUS</b>			
33. GEOGRAPHIC NAMES ✓		34. JUNCTIONS ✓	35. LEGIBILITY OF THE MANUSCRIPT ✓
36. DISCREPANCY OVERLAY Final	37. DESCRIPTIVE REPORT ✓	38. FIELD INSPECTION PHOTOGRAPHS ✓	39. FORMS ✓
40. REVIEWER Leo F. Bugnet		SUPERVISOR, REVIEW SECTION OR UNIT	
41. REMARKS (See attached sheet)			
<b>FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT</b>			
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.			

13

FIELD EDIT REPORT

T-10405, T-10406, T-10572

51 METHODS

The shoreline was field edited in areas where there was uncertainty as to its location, by either walking along the beach, or from a small boat where landing was impracticable.

All additions and corrections to the manuscripts are referenced to the photographs on a paper copy of the manuscript, except for the field edit done on the north end of T-10572. The field edit in this area was referenced with blue pencil on a paper copy of T-10406, since no paper copy of T-10572 was available. All offshore rock elevations are noted on the field photographs only. The stage of the tide is noted on the field photographs at each location of offshore rocks, and the elevation of the rocks is pencilled on the field photographs in red pending verification in the Photogrammetric Office. The tides are referenced to Port Alice gage.

The area in the southern tip of Port Alice was field edited as suggested in letter of 15 July 1958, Ref. 732/rrj, on Manuscript T-10406, and is included in this report.

Field edit was also done in the area between Losa Island and Gull Island on Manuscript T-10405. The location of three offshore rocks that were noted as approximate positions on T-10405 were located by sextant with the objects and sextant angles entered on the reverse side of Field Photograph 41729.

No legend as to colored inks or symbols is necessary.

Standard field inspection practices were followed.

Field photographs 41320 thru 41324, 51998 thru 52000, and 41729 were used for field edit, with paper copies of Manuscripts T-10405 and T-10406.

52 ADEQUACY OF COMPILATION

The compilation will be complete and adequate after application of the field edit notes.

53-55 INAPPLICABLE

Approved and Forwarded

*J. E. Vaughn*  
J. E. Vaughn

CDR, C&GS

C. O., HODGSON

*Ronald D. Bernard*  
Ronald D. Bernard  
LTJG, C&GS



14

REVIEW REPORT T-10572  
SHORELINE  
MAY 15, 1969

61. GENERAL STATEMENT:

See Summary accompanying the descriptive report.

This is an incomplete manuscript. <sup>Some of the</sup> ~~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 41714, 54606 thru 54608, 54583 and field photographs 41714, 54607 and 54583. The field photographs contained no information other than identification of horizontal control. ~~THE RADIAL PLOT REPORT AND "NOTES TO THE HYDROGRAPHER ARE BOUND WITH THIS REPORT. NO FIELD INSPECTION WAS ACCOMPLISHED FOR THIS MAP. JMB~~

A small amount of field edit was accomplished in the northwest part of the survey in 1958. There was no other field work done in the remainder of the survey.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with a copy of registered survey No. 3407, 1:20,000 scale, 1913. All differences between the two surveys have been noted on the comparison print in blue.

\* see below

The passage of time has made survey No. 3407 obsolete, it is superseded by T-10572 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS CRAIG (C-5) 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:

These 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. Many of the rocks shown on the chart are not visible on the photographs because of kelp and the stage of the tide at the time of photography. These rocks and the difference in the

\* T-10572 is incomplete and ~~superseded~~ survey  
~~No 3407~~ - Refer to the comparison Print  
(rock details) SGB



15

mean high water lines of the two surveys have been shown 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:

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

*Leo F. Beugnet*  
Leo F. Beugnet

Approved By:

*Everett J. Ramsey*  
Chief, Photogrammetric Branch *ARB*

*R. H. Houlston*  
Chief, Photogrammetry Division

Chief, Nautical Chart Division

\* THIS IS AN INCOMPLETE SURVEY. REFER TO PAGE 14, HEADING 61.  
A NEW BASIC SURVEY IS RECOMMENDED FOR USE IN CHARTING  
AND HYDROGRAPHIC SURVEYING DUE TO THE LACK OF FIELD  
CLARIFICATION OF DETAILS.

BASIC MAP ACCURACY - HORIZONTAL CONTROL WAS FIELD IDENTI-  
FIED ON THE PHOTOGRAPHY; AND, THE RADIAL PLOT WAS CON-  
SIDERED ADEQUATE FOR MAPPING TO MEET THE NATIONAL  
STANDARDS OF MAP ACCURACY. *ARB*