FORM C&G\$-504

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

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC
Field No. Office No. T-9135
LOCALITY
State ALASKA
General locality PRINCE WILLIAM SOUND
Locality BLACKSTONE BAY
19 48-60
CHIEF OF PARTY Glendon E. Boothe, Field Hubert A. Paton, Baltimore Photo Office Louis J. Reed, Washington Office
LIBRARY & ARCHIVES
DATE

USCOMM-DC 37022-P66

11

DATA RECORD

T-9135, 9136, 9137

152

Quadrangle Name (IV): T-9136 = COCHRANE BAY

T-9135 = BLACKSTONE BAY

Project No. (II):

T-9137 = CULROSS ISLAND

Field Office (II): DERICKSON

Chief of Party: Glendon E. Boothe

Photogrammetric Office (III): Bimore Photo Office Officer-in-Charge: Hubert A. Paton Washington Office, Louis J. Reed, Chief, Stereo-scopic Mapping files of June of

Instructions dated (II) (III):

(II) Field dated 28 Jun 49

Photogrammetry (IV)

Method of Compilation (III): Reading Plotter

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III):

1:20,000

Scale Factor (III): 1:1

Date received in Washington Office (MAN 23 1951 Date reported to Nautical Chart Branch (IV): 2-5-5/

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

NA 1927

Vertical Datum (III):

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):

Lat.:

Long.:

Adjusted

文章及图弦旋桨

Plane Coordinates (IV):

State:

Zone:

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.

DATA RECORD

Field Inspection by (II):

Glendon E. Boothe

Date: 1949

Planetable contouring by (II):

none

Date:

Completion Surveys by (II):

none

Date:

Mean High Water Location (III) (State date and method of location):

Shoreline is dated 1949 since it was field inspected in 1949.

Projection and Grids ruled by (IV):

Ruling Machine

Date: 18 Aug 50

Projection and Grids checked by (IV): Theodore L. Janson

Date: 18 Aug 50

Control plotted by (III):

Orvis N. Dalbey

Date: 14 Nov 50

Control checked by (iii):

John B. McDonald

Date: 15 Nov. 50

Radial Plot or Strongsropic Sentrebentanesies by (III):

Frank J. Tarcza

Date: Jun

Robert L. Sugden Garnett S. Amburn Planimetry

delineation by Stereoscopic Instrument কান্যান্ত্ৰপত (III):

ouis Levin and:

21 Sep 50

Clarence E. Misfeldte: Contours

compilation Manuscript deprocated by (III):

Louis Levin and John B. McDonald

Date: 30 Jan 51

Photogrammetric Office Review by (III) Louis J. Reed

Date: 30 Jan 51

Elevations on Manuscript

Louis J. Reed

Date: 30 Jan 51

checked by (II) (III):

Form T-Page 3

		PHOTOGRAPHS (II	1)		
Number	Date	Time	Scale	S	tage _, of Tide
19693-95	27 Jun 47	11;23	20,000	5 f t	above MLLW
19713-16		11:52	Ĥ	6	11
19718-19	H	11:55	Ħ	6	Ħ
23401-03	2 ^S ep 48	13:64	H	12	Ħ
23443-45	11	13:41	n	11	11
23447-58	u ,	13:47	[₩] #	11	11
23584-91	3 Sep 48	10:18	Ħ	6	I I
23594-603	ii.	10:35	Ħ	7	ti

Tide (III)

Cordova Reference Station:

Subordinate Station: Culross Bay - Wells Passage

Subordinate Station:

Atlantic Marine Center WashingmoxOffice Review by (IV):

Charles H. Bishop

Ranges Range Range

Mean | XXXX

Diurnal

7-10-70

Date: Date:

Ratio of

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): See Remarks below

See Remarks below Shoreline (More than 200 meters to opposite shore) (III):

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II): none

Number of Triangulation Stations searched for (II):

Recovered:

Identified: 9

Number of BMs searched for (II): none

Recovered:

Identified:

none

Number of Recoverable Photo Stations established (III): Number of Temporary Photo Hydro Stations established (III): none

Remarks:

Land Area

Shoreline 28 miles 38 miles 3 miles

T-9135

COMPILATION RECORD	COMPLETION DATE	REMARKS
Contours and shoreline	1951	Superseded
Shoreline revised from 1958 photographs	·	
Ffnal review	1970	

٩,

Prince William Sound, Alaska

		2631	hm.OPPTCIAL MII	LEAGE FOR COST	Andomini.
If Holmster Mining Company	dunication in the property of	21	IJ,	LIN.MI. SHORELINE	AREA
ortage	Surpand Co 2 2 30	Glacier 1654	9118	3	13
2		o	Bil 9119	9	11
131	Peny Isla	v1.5 2 s	9121 10000 9122	11 23	10 7
9135		one Naked Island	9123 9124	7	; 5
6532	SIZE EIGHENTH	IKSPECTION, SHORELING S HORIZONTAL FICATION COMPLETE WITHIN DASHES AREA		15 5	0 3/a
\$817 381		Smith 1s' 60°30	9127 	550) m180
250	91240 9125 9130	Seal Island Montague Point	9129 9130	14	6
* 5900±	9824 9826	Sknight	9131 9132 7 9133	12 48 36	95 50 15
60 Charles	9138 Chenga bash	SISLAND Green	ク9134 9135	21	11 90
ens .	9140 9141 9142	int Helen	9136 si 9137	26 68	90 85 48
52.	49 - 2 4 - 27 1 \	Island ISLAND	9138 9139	10 13	7 5 8
atuninda infrantantanta	9148 9149	whatening wim 60 of	ลาโด	12 24	8 12
FAMELIKO PO O	Cape Puget 29150 9151 sland	- T	9142 9143	10 9	3 4
surrection		11578Vocated Islands	9144 9145	26 19	9 8
NG SOUND	Cape Cleare		9146 9147	18 24	8 9
149*00	148'00'	147	00' 9148 9149	19	. 7 7 8
. '			9150 19151 0431	24 1 5	g Je,
·	i · · ·		9534 9536 9538 9817	6 6	6" 1
1 : '			9817 9818	11 3 7 2 9	46 10695094068 21
•			0 r R O	3 7	9 5
1	•		9820 9821 9822 9823 9824 9825 9826 115 78	2 9	10 9
			9823 9824	9	10
<u> </u>			9825 9826	11 10 19	8
	1	•	11578	<u>19</u>	21
	;		TOTALS	7 02	726
			A 40 A 60 TH	.02	

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-9135

At the time of final review, which is several years after compilation, many of the records concerning this map have been lost or misplaced and were not available for the final reviewer's use. The Compilation Record and Form 164 Control Record were prepared by the final reviewer. Notes concerning the absence of reports are inserted where the reports should be in this Descriptive Report.

No compilation report was available when this map was reviewed.

Compilation of the contoured area was by Reading Plotter in 1950 and 1951, using 1:20,000 scale, nine-lens photographs taken in 1947 and 1948. In 1957 a preliminary radial plot was run at 1:20,000 scale for the purpose of completing the area south of the contouring limit (60° 43°). Nine-lens photographs with mostly office-identified control were used for the 1957 plot. In 1960 another radial plot was run at 1:20,000 scale, using nine-lens photographs with field-identified control, to verify the previous plot. Photographs used in the radial plots were taken in 1948.

No mapping was done on this map west of longitude 148° 45° . Topography is incomplete; no contours were mapped south of latitude 60° 43° .

It is not known if hydro-support data was furnished to the hydrographic party.

There was no data available to the final reviewer concerning field edit; it is not known if field edit was performed.

Final review was done at the Atlantic Marine Center during July 1970.

The compilation manuscript was a vinylite sheet 7 minutes in latitude and 20 minutes in longitude.

A cronaflex copy of the final reviewed manuscript and a negative have been forwarded for record and registry.

FIELD INSPECTION REPORT

2-20

Field inspection was accomplished in 1949 in enjunction with hydrographic operation in the area. The report on this field inspection was meager and can be found in the 1949 season's report of the USC & GS Ship DERICKSON, Project CS-277, Prince William Sound, Alaska, Glendon E. Boothe, Chief of Party, Commanding, a copy of which report relative to field inspection follows:

4. Field Inspection of Air Photographs:

Unfortunately air photographs of the area of the working grounds were not available. Under date of 9 Aug 49 instructions were received to make a field inspection of air photographs covering Passage Canal, Wells Bassage, Pigot Bay, and heads of Blackstone Bay, Cochrane Bay, Port Wells, and Cylross Passage. All triangulation stations in the area were recovered, and where possible the station was located on the air photographs. All of the shoreline was inspected from small boats cruising along close to the beach, landings were made as necessary for inspection purposes, the high water line was determined and off-lying rocks were inspected and notes made on the photographs. The usual standard practices for this type of work were used. A new oil dock at Whittier was located by measurement on the ground and placed on the air photograph.

RADIAL PLOT REPORT

21 - 30

See combined descriptive report for map manuscripts T-9131, T-9132, and T-9133, page 8, which report applies here since the same plot covered all six quadrangles.

RADIAL PLOT REPORT

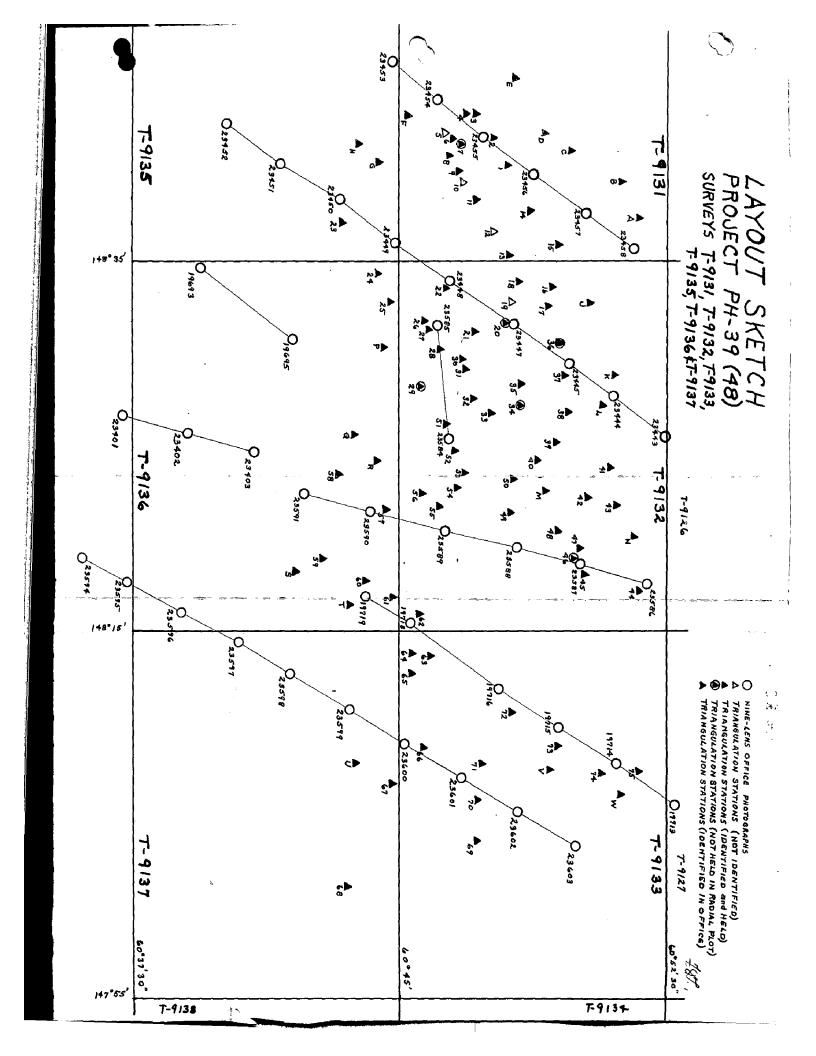
MAP T- 9135

PROJECT PH-152

A Radial Plot Report is mentioned in Item 32 of the Compilation Report for T-9131, 9132, and 9133. This plot report was not available at the time of final review and is not bound with this Descriptive Report.

The fellowing sketch (original bound with T-9135) is for the 1950 plet.

July 15, 1970



PHOTOGRAMMETRIC PLOT REPORT Prince William Sound, Alaska Project Ph-152 August 1957

21. Area Covered

This radial plot covers the southern parts of Cochrane Bay and Blackstone Bay. It is at 1:20,000 scale and completes an area on Manuscripts T-9135 and T-9136 between a 1:20,000 scale plot to the north and 1:10,000 scale plots to the south and east.

22. Method

Four vinylite manuscripts, T-9131, T-9132, T-9135 and T-9136 at 1:20,000 scale were joined together at the grid lines.

Nine-lens metal-mounted photographs were used in the plot. My-lar templets were prepared using a master templet for correcting distortion errors.

The plot was begun in the northern part. Here adequate control was available in the previous plot and there was no problem in junctioning. The plot was extended southward holding to additional control stations. A satisfactory junction was achieved with plots to the south and east.

Six additional control stations were identified on the ninelens photographs to extend the plot and strengthen positions. (See radial plot sketch which shows discrepancies with horizontal control positions).

Positions established by this plot are circled in red on the manuscripts whereas positions on the prior plot are in blue.

23. Adequacy of Control

As stated in paragraph 22 above positions to the north were well controlled. Four well described stations in the south part of Blackstone Bay were office identified. The two stations added in south Cochrane Bay (Hack 1948 & Jello 1948) were used in the plot to the south. Control was adequate and good junction was effected.

24. Supplemental Data - None

Photography

A flight of photographs in each bay area was available. Though one in between would have been helpful, it was not necessary as sufficient photographs and control were used in the plot to the north to establish good junction positions. There was also sufficient control throughout so that each flight could be laid independently. Though the overlap was small, ties were made between flights. (See sketch for arrangement of photographs).

Submitted by:

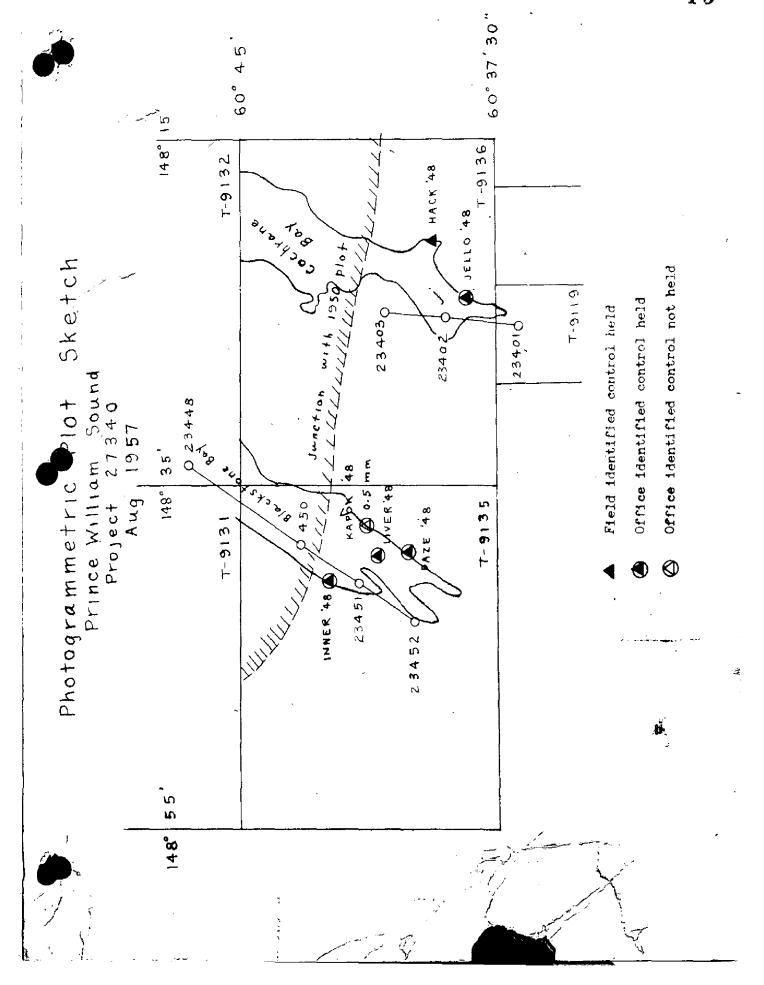
Robert L. Sugden

Approved:

Everett H. Ramey

Chief, Graphic Compilation

Unit



PHOTOGRAMMETRIC PLOT REPORT

PRINCE WILLIAM SOUND, ALASKA

PROJECT PH-152

FEBRUARY 1960

A preliminary plot of this area, using mostly officeidentified control, was done in August 1957. The purpose of this radial plot was to verify previous plot with additional field-identified control accomplished in May and June 1959 by H. J. Seaborg.

21. AREA COVERED:

This radial plot covers the southern part of Cochrane Bay and Blackstone Bay. It is at 1:20,000 scale and completes an area on Manuscripts T-9135 and T-9136.

22. METHOD:

Four vinylite manuscripts, T-9131, T-9132, T-9135, and T-9136, were joined together at the grid lines. Nine-lens, metal-mounted photographs were used in the plot. Mylar templets were prepared, except Nos. 23402, 23448, and 23450 through 23452. These templets were from the 1957 plot with the additional control added. The plot was begun at approximate latitude 60° 49' and extended south to complete T-9135 and T-9136.

23. ADEQUACY OF CONTROL:

The additional control was very adequate. All stations held, except XENO 1948. It was within 0.4 mm.

24. SUPPLEMENTAL DATA:

None.

25. PHOTOGRAPHY:

The spacing and quality of the photographs were adequate for an accurate plot. A photogrammetric plot sketch is submitted with this report.

Note: See radial plot reports dated December 1956 and August 1957.

Submitted by:

Garnett S. Amburn

FEBRUARY 1960

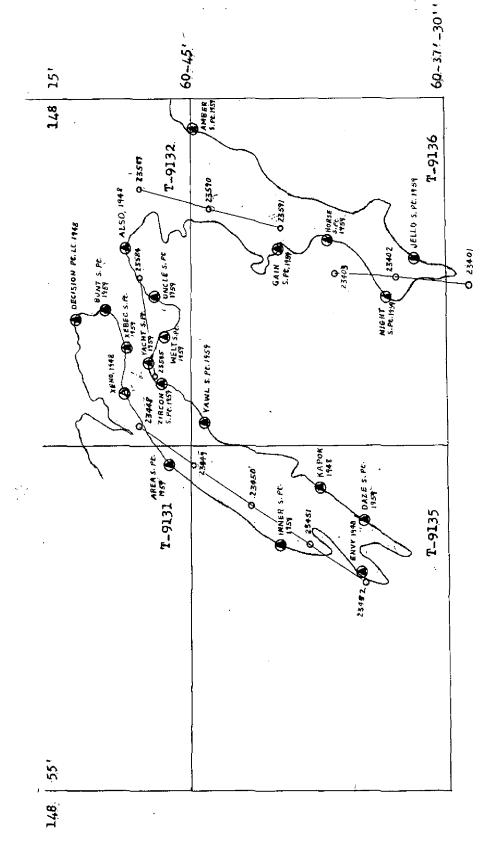
PROJECT PH-152

TRIANGULATION STATION RADIAL PLOT TOLERANCES

Stati	.on		Tolerance
ALSO		1948	held.
AMBER	Sub. Pt.	1959	held
AREA	Sub. Pt.	1959	held
BUNT	Sub. Pt.	1959	held
DECISION POINT LIGHT		1948	held
ENVY		1948	held
GAIN	Sub. Pt.	1959	held
HORSE	Sub. Pt.	1959	held
INNER	Sub. Pt.	1959	held.
JELLO	Sub. Pt.	1959	held
KAPOK		1948	held
NIGHT	Sub. Pt.	1959	held.
UNCLE	Sub. Pt.	1959	held
WELT	Sub. Pt.	1959	held
XEBEC	Sub. Pt.	1959	held
XENO		1948	0.4 mm north
YACHT	Sub. Pt.	1959	held
YAW	Sub. Pt.	1959	held
ZIRCON	Sub. Pt.	1959	held

PHOTOGRAMMETRIC PLOT SKETCH

PRINCE WILLIAM SOUND



;,`

◆ CONTROL HELD IN THE RADIAL PLOT(FIELD)

@ CONTROL NOT HELD (FIELD)

•	
7-0 C	

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

THE REPORT OF

DESCRIPTIVE REPORT CONTROL RECORD

	N.A. 1927 - DATUM DISTANCE FROM GRID OF PROJECTION LINE IN METERS (1 Pt. = 3048006 meter) ORWARD	,											·													7 02-7T-2
FACTOR.	DISTANCE IN ME FORWARD		5•162	9*0271	319.4	310.6	907.3	288.0	630.0	L*9E¶	217.8	549.9	770.5	1*628	457.8	1029.6	6•191	554.7	305.1	520.9	88.3	22.0	834.2	374.2	679.8	DATE
00 SCALE	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	29,810	19.427	45,897	21.059	10.036	59.742	09.304	41.485	े 601.41	14.370	17.767	50.794	28.401	30,181	33.264	30.649	17,922	20.104	16,829	05.817	00.71	55.04	12.09	44.72	LFB
1:20,000	TUDE OR Y (43	39	717	35	O [†]	38	O T	017	711	38	217	36	715	38	717	10	다	37	4	39	71	12	38	36	
SCALE OF MAP_	LATI	99	877	9	148	9	94г	09	971	9	977	9	148	9	148	8	841	9	248	3	977	9	148	99	148	CHECKED BY
SC/	DATUM		N.A. 1927		=		=		=		=		=		=		E		=		=		=		=	٧-
152	E OF TTION (X)		P. 27		27		27		28		56		56	.,	56		26		56		26		98		73	4-6-
NO. PH-152	SOURCE OF INFORMATION (INDEX)		Vol. VI,		=		=		=		=		=		=		=		=		=		=		=	DATE
PROJECT NO.																										CHB
55	STATION			•																			1914		1947	
MAP T- 9135			ветт 1948		COMA 1948		DAZE 1948		ENVΥ 1.948		EXTRA 1948		GUESS 1948		HEART 1948		INNER 1948		KAPOK 1948		LIVER 1948		PEAK NO. 3		PEAK NO. 58	COMPUTED BY



DESCRIPTIVE REPORT CONTROL RECORD

DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) 18 (BACK) N.A. 1927 - DATUM 7-14-70 800.5 170.6 73.9 812.2 375.7 FORWARD 693.7 205.4 1854.1 SCALE FACTOR DATE 13.545 04.877 59.901 25,862 11.26 12.14 45.63 26,24 LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE LFB 1:20,000 8 36 3 앜 玩 5 3 37 SCALE OF MAP__ CHECKED BY 148 જ 377 8 8 148 8 148 N.A. 1927 DATUM = = = 02-9-2 ස 8 ∞ 28 SOURCE OF INFORMATION PH-152 Vol. VI, P. (NDEX) = = = DATE PROJECT NO. 思 1948 1948 1914 STATION 9135 සි SHAKESPEARE 8 ZEUS 1948 MAP T-PEAK NO. PEAK NO. COMPUTED BY

SHE MINNEY IT.

COMPILATION REPORT

MAPS T-9135, T-9136, AND T-9137

PROJECT PH-152

There was no compilation report for these maps available at the time of final review.

August 21, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-152 (Alaska)

T-9135

Blackstone Bay

Blackstone Glacier

Chugach National Forest

Lawrence Glacier

Ripon Glacier

Shakespeare Glacier

Whittier Glacier

Willard Island

Approved by:

A. Joseph Wraight Chief Geographer

Prepared By:

Frank W. Pickett Cartographic Technician

Project Ph-152 Prince William Sound

Notes to the Hydrographer for T-9131, T-9132, T-9135 and T-9136

Surveys T-9131, T-9132 and a portion of T-9135 and T-9136 were compiled in 1950-51 to include contours. In 1958 the compilation of shoreline was extended southward to the head of Blackstone Bay and of Cochrane Bay.

Datum for these surveys was established by photogrammetric plots based on field identified and office identified control stations. The datum is considered final.

Nine-lens photographs taken in 1947 and 1948 were used for base compilation. In addition, infra-red single lens photographs were used to supplement the nine-lens photographs. These single lens photographs were not included in the plot.

Paper prints of nine-lens photographs have been prepared with pass points for use by the hydrographic party in positioning hydrographic stations by photogrammetric methods and in completing field inspection. Prints of the infra-red photographs ratioed to the scale of the manuscripts are also available for field inspection. The field party should verify the compilation of all shoreline features if practicable.

Everett H. Ramey Chief, Graphic Compilation Unit

PHOTOGRAMMETRIC OFFICE REVIEW

T.9135, 9136, 9137.

1. Projection and grids2. Title3. Manus	cript numbers4. Manuscript size
	•
CONTROL STA	ATIONS
5. Horizontal control stations of third-order or higher accuracy	6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)7. F	Photo hydro stations8. Bench marks
9. Plotting of sextant fixes10. Photogrammetric plo	t report11. Detail points
(V= chuhed
, ALONGSHORE	ADEAC / A/ T
(Nautical Chai	· · · · · · · · · · · · · · · · · · ·
12. Shoreline13. Low-water line14. Rock to navigation17. Landmarks18. Other all	s, shoals, etc15. Bridges16. Aids
to navigation17. Landmarks18. Other all	ongshore physical features19/Other along –
shore cultural features	
PHYSICAL FEA	
20. Water features 21. Natural ground cover	
nstrument contours 24. Contours in general	25. Spot elevations 26. Other physical
features	
CULTURAL FEA	
27. Roads 28. Buildings 29. Railroads	30. Other cultural features
BOUNDAR	ies '
31. Boundary lines 32. Public land lines	·
MISCELLANI	cous
33. Geographic names 34. Junctions 35.	Legibility of the manuscript 36. Discrepancy
	nspection photographs39. Forms
40	Join Heed, Chief,
Reviewer	Supervisor, Review Section or Unit
41. Remarks (see attached sheet)	Kereo Ecapie // ppping declion
FIELD COMPLETION ADDITIONS AND CO	RRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion	on survey have been applied to the manuscript. The
manuscript is now complete except as noted under item 43.	
Compiler	Supervisor
·	
43. Remarks:	M-2623-12

FIELD EDIT REPORT

MAP T-9135

PROJECT PH-152

No Field Edit Report for this map was available at the time of final review.

REVIEW REPORT T-9135

TOPOGRAPHIC

JULY 10, 1970

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print (pages 26 through 28), with differences noted in Items 63 and 65 is bound with the original of this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

No registered topographic surveys of this map area were available for comparison.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Guadrangle SEWARD (C-5), ALASKA, scale 1:63,360, dated 1951. Differences between this map and T-9135 are shown in brown on the comparison print.

Considering the large difference in scale, the general trend of the shoreline compares well. Displacement was noted on the northeast side of Willard Island, and there are large shoreline differences in areas where glaciers have receded.

Two rocks awash not visible on the photographs are noted on the comparison ozalid - one at latitude $60^{\rm O}$ 43.5', longitude $148^{\rm O}$ 37.3'; the other at latitude $60^{\rm O}$ 42.8', longitude $148^{\rm O}$ 35.4'.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

The only survey available for comparison was a verified copy of H-7732. No shoreline or alongshore features appear on this survey; no differences with this survey appear on the comparison print.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 8517, scale 1:80,000, 9th Edition, dated April 28, 1969. Differences between this chart and T-9135 are shown in red on the comparison print.

Large differences in shoreline placement were noted. Generally, the chart shoreline is east of the shoreline on T-9135. Part of this difference is probably due to the fact that the chart was brought to a four times enlargement for comparison.

Bare rocks are charted in the vicinity of latitude 60° 43', longitude 148° 40', and at latitude 60° 42.3', longitude 148° 40.5'. These rocks are not visible on the photographs and are not mapped on T-9135.

A rock awash at latitude 60° 43.5', longitude 148° 37.3' is not visible on photographs covering the area and is not mapped on T-9135. This is probably the same as the first rock awash noted in Paragraph 3, Item 63.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with Job Instructions, Bureau requirements, and the National Standards for Map Accuracy. No accuracy tests were run in the field.

Reviewed by:

Charles H. Bishop

Charles H. Bishop Cartographer July 10, 1970

Approved by:

Allen L. Powell, RADM, USESSA Director, Atlantic Marine Center

Approved by:

Chief, Photogrammetric Branch Other, Photogrammetry Division

