

T-12667

T-12667

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline
Job No. PH-6409 Map No. T-12667
Classification No. III Edition No. 1

LOCALITY

State Alaska
General Locality Orca Inlet
Locality Mummy Island

1965 TO 19

REGISTRY IN ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY

- ☒ ORIGINAL
☐ RESURVEY
☐ REVISED

SURVEY ~~XXXX~~ T-12667

MAP EDITION NO. (1)

MAP CLASS III

JOB PH. 6409

PHOTOGRAMMETRIC OFFICE

Coastal Mapping Division
Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE

Jeffrey G. Carlen, Cdr.

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

- ☐ ORIGINAL
☐ RESURVEY
☐ REVISED

JOB PH. _____

MAP CLASS _____

SURVEY DATES:

19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE

Aerotriangulation 8/18/65
Office 10/11/65

2. FIELD

II. DATUMS

1. HORIZONTAL:

☒ 1927 NORTH AMERICAN

OTHER (Specify)

2. VERTICAL:

- ☒ MEAN HIGH-WATER
☐ MEAN LOW-WATER
☒ MEAN LOWER LOW-WATER
☐ MEAN SEA LEVEL

OTHER (Specify)

3. MAP PROJECTION

Polyconic

4. GRID(S)

STATE

Alaska

ZONE

3

5. SCALE

1:20,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	D. O. Norman	10/65
METHOD: Analytic	LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	L. O. Neterer	10/65
METHOD: Coordinatograph	CHECKED BY	J. S. Place	10/65
3. STEREOSCOPIC INSTRUMENT	PLANIMETRY BY	L. O. Neterer	12/65
COMPILATION	CHECKED BY	J. S. Place	12/65
INSTRUMENT: Kelsh	CONTOURS BY	NA	
SCALE: 1:8,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	L. O. Neterer	4/66
	CHECKED BY	C. H. Bishop	4/66
METHOD: Smooth Drafted	CONTOURS BY	NA	
	CHECKED BY	NA	
SCALE: 1:20,000	HYDRO SUPPORT DATA BY	L. O. Neterer	4/66
	CHECKED BY	C. H. Bishop	4/66
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	C. H. Bishop	4/66
6. APPLICATION OF FIELD EDIT DATA	BY	Cancelled	
	CHECKED BY		
7. COMPILATION SECTION REVIEW	BY		
8. FINAL REVIEW	BY	A. L. Shands	3/77
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	A. L. Shands	5/77
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	J. B. Phillips	6/77
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R. T. CATDR	8-77

NOAA FORM 76-368
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-12667
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) RC 8 "L"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Alaska	<input checked="" type="checkbox"/> STANDARD
<input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 150th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
65L(I)3556-3559	5/17/65	06:37	1:40,000	2.2 ft. below MLLW	
65L(I)3574-3577	5/17/65	06:50	1:40,000	2.5 ft. below MLLW	
65L(I)3595-3598	5/17/65	07:15	1:40,000	2.6 ft. below MLLW	
65L(I)3606-3609	5/17/65	07:27	1:40,000	2.6 ft. below MLLW	
65L(I)3631-3635	5/17/65	08:28	1:40,000	1.7 ft. below MLLW	
65L(I)3649-3652	5/17/65	08:46	1:40,000	1.7 ft. below MLLW	
65L(I)3668-3671	5/17/65	08:59	1:40,000	1.0 ft. below MLLW	
65L(I)3678-3680	5/17/65	09:08	1:40,000	0.8 ft. below MLLW	
65L(I)3694-3696	5/17/65	13:13	1:40,000	7.9 ft. above MLLW	
65L(I)3717-3719	5/17/65	13:24	1:40,000	8.2 ft. above MLLW	

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

Office interpretation of the above listed photographs.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

Office interpretation of the above listed photographs.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH T-12439	EAST T-12668	SOUTH No Survey	WEST No Survey
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REMARKS

T-12667

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. D. Watkins	Jun 1965
2. HORIZONTAL CONTROL	RECOVERED BY R. B. Melby	Jun 1965
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY R. B. Melby	Jun 1965
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
65L(I)3671	GIRL RM 1, 1899		
65L(I)3669	PINNACLE ROCK, 1899		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☐ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

1 Form 152 Control Station Identification

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONT-12667
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Alongshore area for hydro	4/66	Class III		
Final Review	3/77		7/28/77	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1			Landmark to be charted.

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☐ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM 76-40 ~~NO. 150~~ SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS

T-12807, T-12439, T-12667 through T-12670

Shoreline Maps T-12807, T-12439, and T-12667 through T-12670 are all 1:20,000 scale maps, 7½ minutes in latitude and 10 minutes in longitude, covering the southwest portion of Project PH-6409, Orca Inlet, Alaska. The purpose of these maps was to provide hydro support and to furnish shoreline for nautical chart construction.

As stipulated in the instructions, compilation was by Kelsh and graphic methods, using tide coordinated infrared photography taken at near and below MLLW and near MHW.

The area covered by these maps was severely affected by the 1964 earthquake. A general uplift resulted. Because of the very wide expanse of mud and sand tidal flats which exist, it is logical to expect new shorelines to have been created. However, many such shorelines may have gone undetected or been misidentified on the infrared photography because of rain which dominates weather conditions of the area. Also, in May, the date of photography, there is a constant runoff from melting snow. This also serves to keep the ground wet. The newness of the shoreline (14 months since the earthquake) might mean that a sufficiently distinguishable berm line would not have had time to develop. These factors may have combined to make new shoreline created since the earthquake unidentifiable on the infrared photography taken at 7.9 to 8.2 feet above MLLW. MHW is 11.5 feet at Cordova. The shoreline shown is from office interpretation without field confirmation.

Field work preceeding compilation consisted of the recovery, identification and establishment of horizontal control necessary for bridging. There was no clarification of details.

Except for T-12807, which was partially edited in 1965, none of these maps was field edited.

Final review was done at AMC in March and April of 1977.

FIELD INSPECTION

T-12667

There was no field inspection prior to compilation.

Photogrammetric Plot Report
Orca Inlet, Alaska
PH-6409
October 1965

21. Area Covered

This report pertains to the area of Orca Inlet, Alaska. The sheets covered are T-12667, T-12668, T-12669, T-12670, and parts of T-12439 and T-12807.

22. Method

Four strips were bridged by analytic aerotriangulation methods. Common points were transferred from Strips #1 and #2 (1:60,000 scale) to infrared photography (1:40,000 scale) which is to be used by compilation. These points are 150 micron drill holes on the infrared photography.

Strips #3 and #4 (1:40,000 scale) are infrared photography to be used by compilation. Plane coordinates for Alaska, Zone 3, have been furnished.

23. Adequacy of Control

The control was adequate. Most of the control consisted of premarked stations; however, three stations were used that had been identified on a previous survey in the area. Two office identified control stations were also used.

Strip #3 was adjusted in part on tie points from Strip #4.

SKY 2, 1965 (temp.), a premarked station, could not be held in the adjustment. The discrepancy of this station is 78 feet in X and 310 feet in Y. It is obvious that the object identified as the target was not the target and that the target is not visible on the photography. The lack of fit by this station will in no way affect the accuracy of the manuscripts.

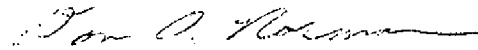
24. Supplemental Data

Approximate elevations were taken from USGS topographic quadrangles to satisfy vertical requirements for the horizontal-vertical strip adjustment program.

25. Photography

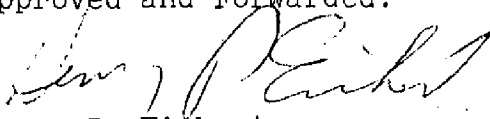
The photography was adequate.

Respectfully submitted:



Don O. Norman

Approved and Forwarded:



Henry P. Eichert
Acting Chief, Aerotriangulation
Section

Tie points between Strips #1 & #2

02401	+0.3	+0.7
02402	0.0	-0.6
03401	-3.4	-1.1
03402	+1.5	-0.1
04401	-1.3	+0.9
04402	-3.3	-2.8
05401	-2.9	-2.4
05402	-0.6	-3.7
06401	-0.1	-7.1
06402	+1.3	-4.3
07401	+5.7	-6.5
07402	+6.7	+0.1
08401	+2.4	-2.0
08402	+1.6	-3.1
09401	+2.2	-0.4
09402	-0.6	-1.5
10401	-1.2	-6.1

Tie points between Strips #3 & #4

70401	+2.5	-4.6
70402	+2.3	-5.0
69401	+0.7	-3.2
69402	-1.0	-4.2
68401	-1.4	-0.6
68402	-0.3	-1.1
68403	-2.0	-0.2
67401	-0.2	-4.2
67403	+0.6	-2.3
66401	-0.9	-1.1
66402	-1.8	+0.1
65401	+0.8	+1.2
65402	-0.8	+3.4
64401	-0.6	+4.5
64402	-0.1	+2.0

Tie points between Strips #1 & #3

50401	+4.3	-5.1
50402	+7.3	-9.0
69403	+7.1	-8.8

Tie points between Strips #1 & #4

67404	+3.2	-4.2
67405	+5.3	-2.7
71401	+2.4	-1.3
71402	+0.1	+1.4

AEROTRIANGULATION
Fit to Control
Orca Inlet
(Closures are shown in feet)

Strip #1

GLACIER, 1965 (temp)	0.0	0.0
SKY 2, 1965 (temp)	-78.4	-310.0
WHITSHED, 1916	+ 1.2	+ 2.2
substation	0.0	+ 0.2
MUMMY ISLAND LIGHT, 1964	+ 1.6	+ 4.0
PINNACLE ROCK, 1899 (office ident.)	0.0	- 0.3
GIRL, 1899 RM#1	+ 1.4	- 2.7
DAVE, 1899	0.0	0.0

Strip #2

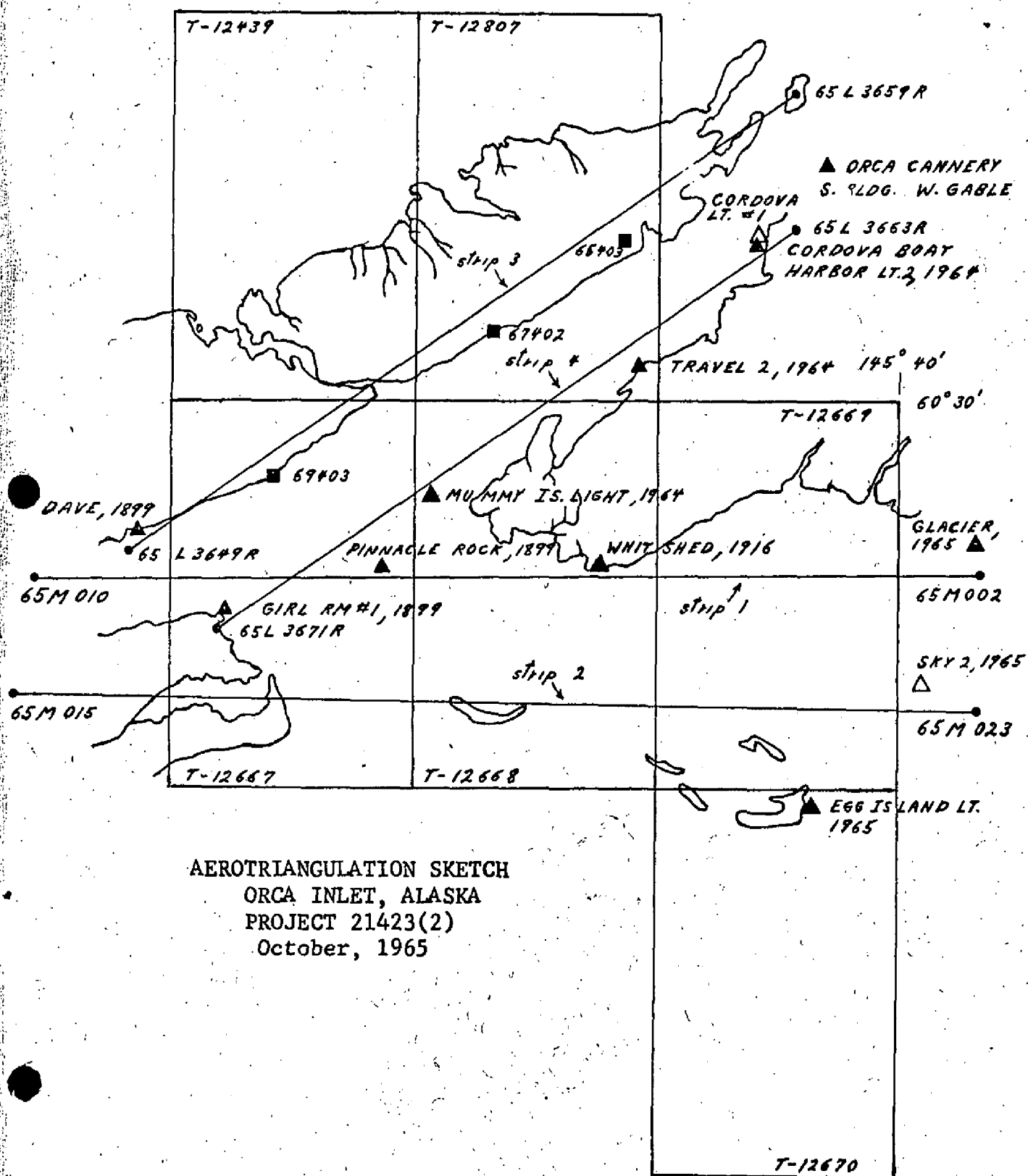
DAVE, 1899	- 0.1	+ 1.1
GIRL, 1899 RM#1	+ 0.6	- 3.6
WHITSHED, 1916		not visible
substation	+ 1.0	+ 3.0
EGG ISLAND LIGHT, 1965	- 1.0	- 2.3
substation	- 4.4	+ 0.7
SKY 2, 1965 (temp)		not visible
GLACIER, 1965 (temp)	- 0.6	+ 0.6

Strip #3

DAVE, 1899	- 0.5	+ 1.2
69403 tie point from Strip #4	+ 0.8	- 1.6
67402 tie point from Strip #4	+ 0.6	- 2.3
65403 tie point from Strip #4	- 1.3	+ 3.8
ORCA CANNERY S. BLDG. W. GABLE, 1955	+ 0.4	- 1.4

Strip #4

CORDOVA BOAT HARBOR LIGHT 2, 1964	+0.7	- 0.7
CORDOVA LIGHT #1, 1964 (office ident.)	+ 0.3	- 0.7
TRAVEL 2, 1964		
substation "A"	- 1.3	+ 1.3
substation "B"	- 2.9	+ 6.0
MUMMY ISLAND LIGHT, 1964	+ 0.4	+ 11.1
PINNACLE ROCK, 1899 (office ident.)	+ 0.8	- 1.9
GIRL, 1899 RM#1	- 0.2	+ 1.0



DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	PH-6409	GEODETTIC DATUM		ORIGINATING ACTIVITY		REMARKS	
			STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE ZONE	NA 1927	Division, AMC, Norfolk, VA
					GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE		FORWARD BACK	
PEAK NO. 50, 1899	G.P. Vol 6 P. 222		X=	φ 60 29 27.36			846.8	(1010.3)
			Y=	λ 146 07 29.10			444.4	(471.9)
LOST, 1899	G.P. Vol 6 P. 188		X=	φ 60 28 07.035			217.7	(1639.3)
			Y=	λ 146 02 32.393			495.0	(421.8)
GIRL, 1899	G.P. Vol 6 P. 188		X=	φ 60 25 55.707			1724.2	(132.8)
			Y=	λ 146 07 29.022			444.0	(473.9)
GIRL RM 1, 1899	Unadj. Field		X=	φ 60 25 54.672			1698.8	(164.9)
			Y=	λ 146 07 25.713			393.4	(524.5)
PINNACLE ROCK, 1899	G.P. Vol 6 P. 219		X=	φ 60 26 44.824			1387.3	(469.7)
			Y=	λ 146 01 29.155			445.8	(471.7)
BAN, 1916	G.P. Vol 6 P. 248		X=	φ 60 24 32.970			1020.4	(836.6)
			Y=	λ 146 06 23.090			353.5	(565.0)
NAB, 1916	G.P. Vol 6 P. 248		X=	φ 60 24 31.498			974.9	(882.1)
			Y=	λ 146 06 21.575			330.3	(588.2)
ROCK, ENTRANCE TO BOSWELL BAY, 1916	G.P. Vol 6 P. 248		X=	φ 60 24 48.211			1492.1	(364.9)
			Y=	λ 146 06 11.039			169.0	(749.4)
ROCK, SMALL LONE ROCK, 1916	G.P. Vol 6 P. 250		X=	φ 60 27 38.960			1205.9	(651.1)
			Y=	λ 146 04 03.060			46.8	(870.3)
BEACH, 1899	G.P. Vol 6 P. 189		X=	φ 60 23 44.448			1375.7	(481.3)
			Y=	λ 146 05 06.268			96.0	(823.0)
COMPUTED BY D. Butler		DATE 3/17/77	COMPUTATION CHECKED BY Albert C. Rauck, Jr.					DATE 3/17/77
LISTED BY		DATE	LISTING CHECKED BY					DATE
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY					DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

COMPILATION REPORT

T-12667

31. DELINEATION:

Models were set on the Kelsh, using the near low water photography. The mean lower low water line was delineated and common points established to control the graphic delineation of the mean high water line and shoal and shallow lines from the photographs taken at the lowest stage of tide and near mean high water.

32. CONTROL:

See Photogrammetric Plot Report dated October 1965.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. Drainage was delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

Two landmarks, a radar tower and a radio range, are within the limits of this manuscript.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See Form 76-36B, Item 5.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

41. CHANNEL AND SHOAL LINES:

Bottom configurations brought about by the March, 1964 earthquake were delineated as channel and shoal lines from the lowest stage of tide photography.

46. COMPARISON WITH EXISTING MAPS:

Comparison was made with USGS Quadrangle CORDOVA (B-6), ALASKA, 1:63,360 scale, dated 1950.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 8520, scale 1:80,000, 12th Edition, dated July 20, 1964.

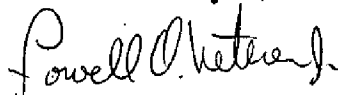
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

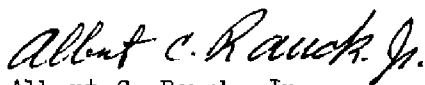
None.

Submitted by:



L. O. Neterer, Jr.
Cartographic Technician

Approved:



Albert C. Rauck, Jr.
Chief, Coastal Mapping Section, AMC

T-12667

48. GEOGRAPHIC NAMES LIST:

Boswell Bay
Boswell Rock
Gulf of Alaska
Hawkins Island
Hawkins Island Cutoff
Hinchinbrook Island
Little Mummy Island
Mummy Island
Orca Inlet
Pinnacle Rock
Point Bentinck
Strawberry Hill

NOTE: The names appearing on this list were provided by the Staff Geographer on USGS Quad CORDOVA (B-6), ALASKA, dated 1953.

NOAA FORM 75-74
(2-74)U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T-10363 12667

1. PROJECTION AND GRIDS CHB	2. TITLE CHB	3. MANUSCRIPT NUMBERS CHB	4. MANUSCRIPT SIZE CHB
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY CHB	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) None		7. PHOTO HYDRO STATIONS None
8. BENCH MARKS None	9. PLOTTING OF SEXTANT FIXES None	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS None
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE CHB	13. LOW-WATER LINE CHB	14. ROCKS, SHOALS, ETC. CHB	15. BRIDGES None
16. AIDS TO NAVIGATION None	17. LANDMARKS None	18. OTHER ALONGSHORE PHYSICAL FEATURES None	19. OTHER ALONGSHORE CULTURAL FEATURES None
PHYSICAL FEATURES			
20. WATER FEATURES CHB	21. NATURAL GROUND COVER CHB		22. PLANETABLE CONTOURS None
23. STEREOSCOPIC INSTRUMENT CONTOURS None	24. CONTOURS IN GENERAL None	25. SPOT ELEVATIONS None	26. OTHER PHYSICAL FEATURES None
CULTURAL FEATURES			
27. ROADS None	28. BUILDINGS CHB	29. RAILROADS None	30. OTHER CULTURAL FEATURES CHB
BOUNDARIES			
31. BOUNDARY LINES None		32. PUBLIC LAND LINES None	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES CHB	34. JUNCTIONS CHB		35. LEGIBILITY OF THE MANUSCRIPT CHB
36. DISCREPANCY OVERLAY None	37. DESCRIPTIVE REPORT L.N.	38. FIELD INSPECTION PHOTOGRAPHS None	39. FORMS CHB
40. REVIEWER Charles H. Bishop C. H. Bishop		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr. Albert C. Rauck, Jr.	
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 map not field edited.			

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				NONFLOATING AIDS OR LANDMARKS FOR CHARTS				ORIGINATING ACTIVITY			
REPORTING UNIT (Field Party, Ship or Office)		STATE		LOCALITY		DATE		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED		ORIGINATING ACTIVITY			
TO BE CHARTED <input checked="" type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED		AMC, Norfolk, VA		Alaska		Orca Inlet		3/29/77				<input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> COMPILATION ACTIVITY <input checked="" type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH (See reverse for responsible personnel)			
The following objects HAVE <input type="checkbox"/> HAVE NOT <input checked="" type="checkbox"/> been inspected from seaward to determine their value as landmarks.		SURVEY NUMBER		DATUM		POSITION		OFFICE		FIELD					
JOB NUMBER		T-12667		NA 1927		LATITUDE		LONGITUDE							
CHARTING NAME		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)		° /		° /		D.P. Meters		D.P. Meters					
AERO R. RGE		RADIO RANGE 362		60 23		40.77 1262		146 05 17.11 262		65L(I)3607 5/17/65		8520			
		NOTE: This is center of five towers which appear on May 1965 photos.													

REVIEW REPORT

T-12667

SHORELINE

March 29, 1977

61. GENERAL STATEMENT:

See Summary, which is Page 6 of this Descriptive Report. A comparison print showing the differences noted in Paragraphs 64, 63, and 65 is submitted with the original of this report.

Because this map was not field edited, the landmarks Radio Range at Lat. $60^{\circ} 23.7'$, Long. $146^{\circ} 05.3'$ and Radar Tower at Lat. $60^{\circ} 25.1'$, Long. $146^{\circ} 09.2'$ were not field verified. The Radar Tower could not be positively identified in the office. Its position is not mapped, therefore, and no 76-40 is submitted for it. The Radio Range appears on the photography as a five-tower facility which, according to FAA publications, has been modified to a single-tower facility. Its position as published in "Flight Information Publication - Supplement Alaska," dated May 20, 1976 compares well with that of the center one of the five towers appearing on the photographs. This is the position shown on the map and reported on Form 76-40.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with Registered Surveys 3642 and 3670, each 1:20,000 scale, dated 1916, on the Valdez Datum. The differences noted after datum correction are the results of time and advancements in mapping techniques, equipment, and methods.

Significant differences were noted in the shoreline at Point Bentinck. These are shown on the comparison print in blue pencil.

T-12667 supersedes Surveys 3642 and 3670 in the area compared for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with USGS Quadrangle CORDOVA (B-6), ALASKA, 1:63,360 scale, dated 1953. Significant differences were noted in shoreline configuration at Point Bentinck. These differences are shown on the comparison print in brown pencil.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic survey was conducted within the limits of this survey.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 8520, 1:80,000 scale, 13th Edition, dated March 7, 1966. Two rocks charted near Mummy Island (Lat. $60^{\circ} 28.1'$, Long. $146^{\circ} 00.5'$ and Lat. $60^{\circ} 28.2'$, Long. $146^{\circ} 02.8'$) are not visible on the photos and large differences in the shoreline were noted at Point Bentinck. These are shown on the comparison print in red pencil.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map was not field edited. Other than that, it complies with the Project Instructions and meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted by:

A. L. Shands

A. L. Shands
Final Reviewer

Approved for forwarding:

Joseph W. Vonasek

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

A. K. Haggood

Chief, Photogrammetric Branch

James L. Haggood

Chief, Coastal Mapping Division

65L(I) 3516

15a

NOTE:

"The photogrammetric location and delineation of features offshore from the mean high-water line on this survey may not be complete or final. The contemporary reviewed hydrographic survey of the area where available, should be consulted for the final delineation."

RK not visible on photos



GIRL 1899
GIRL PM 1899

65L(I) 3598

65L(I) 3577

65L(I) 3671

HINCHINBROOK

BOSWELL BAY

ROCK, ENTRANCE
TO BOSWELL
BAY 1916

Boswell Rock

BAN 1916
NAB 1916

mud

mud

OR

Marsh

Y = 2,350,000 FT.

25' 00"

COMPARISON PRINT
T-12667

Blue lines = Topo 3670

Red lines = Chart 8520

Brown lines = U.S.G.S. Quad

Y = 2,340,000 FT.

146° 10'

60° 24' 00"

15b

Point
Bentinck

65L(I) 3679

65L(I) 3695

65L(I) 3608

65L(I) 3696

65L(I) 3609

sand

sand

COMPARISON PRINT
T-12667

Brown = U.S.G.S Quad
Red = chart 8520
Blue = Reg Topo 3670

TEMPORARY SURVEY)

X = 490,000 FT.

0.4'

0.3'

0.2'

0.1'

X = 500,000 FT.

146'

60° 22' 30"

Y = 2,330,000 FT.

Y = 2,340,000 FT.

24'

