

TP-00085

TP-00085

NOAA FORM 76-35
(6-80)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT BE FIELD EDITED

Map No.

TP-00085

Edition No.

1

Job No.

PH-6906

Map Classification

CLASS III FINAL

Type of Survey

SHORELINE

LOCALITY

State

ALASKA

General Locality

CONTROLLER BAY

Locality

CAPE ST. ELIAS

19 69 TO 19

REGISTERED IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY TP. 00085	
DESCRIPTIVE REPORT - DATA RECORD				<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. (1)	
				<input type="checkbox"/> RESURVEY		MAP CLASS III FINAL	
				<input type="checkbox"/> REVISED		JOB PH. 6906	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Atlantic Marine Center, Norfolk, VA				LAST PRECEDING MAP EDITION			
OFFICER-IN-CHARGE A. Y. Bryson, CDR				TYPE OF SURVEY		JOB PH. _____	
				<input type="checkbox"/> ORIGINAL		MAP CLASS _____	
				<input type="checkbox"/> RESURVEY		SURVEY DATES:	
				<input type="checkbox"/> REVISED		19__ TO 19__	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Aerotriangulation September 21, 1970				Field May 29, 1969			
Compilation November 20, 1970							
Memo April 10, 1984							
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify)			
3. MAP PROJECTION				4. GRID(S)			
Polyconic				STATE Alaska		ZONE 3	
5. SCALE 1:20,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY				I. Saperstein		Nov. 1970	
METHOD: Analytic LANDMARKS AND AIDS BY				H. Eichert		Nov. 1970	
2. CONTROL AND BRIDGE POINTS PLOTTED BY				I. Saperstein		Nov. 1970	
METHOD: Coradomat CHECKED BY				H. Eichert		Nov. 1970	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				L. O. Neterer		Dec. 1970	
COMPILATION CHECKED BY				R. Pate		Dec. 1970	
INSTRUMENT: Wild B-8				N.A.			
SCALE: 1:20,000				N.A.			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				E. Pursel		Jan. 1971	
CHECKED BY				L. Graves		Feb. 1971	
METHOD: Smooth drafted				N.A.			
CHECKED BY				N.A.			
SCALE: 1:20,000 HYDRO SUPPORT DATA BY				E. Pursel		Jan. 1971	
CHECKED BY				L. Graves		Feb. 1971	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				L. Graves		Feb. 1971	
6. APPLICATION OF FIELD EDIT DATA BY				N.A.			
CHECKED BY				N.A.			
7. COMPILATION SECTION REVIEW CLASS III BY				F. Mauldin		Jan. 1984	
8. FINAL REVIEW CLASS III BY				L. O. Neterer, Jr.		April 1984	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				L. O. Neterer, Jr.		SEP " 1984	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				P. Hawkins		DEC 1984	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				R.S. KORNSPAN		FEB 1985	

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00085
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) RC-8"E" Focal Length =152.71 mm		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Yukon MERIDIAN 135th <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
69 E(C) 1396 - 1405	Aug.13,1969	11:38	1:20,000	6.0 ft. above MLLW	
69 E(C) 1447 - 1457	Aug.13,1969	12:27	1:20,000	7.3 ft. above MLLW	
69 E(C) 1457 - 1466	Aug.13,1969	12:42	1:20,000	7.9 ft. above MLLW	
				Mean Tide Range=7.7 ft.	

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from the above listed photography.

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

There was no mean lower low water line compiled.

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	EAST	SOUTH	WEST
(scale TP-00083 1:10,000)	No Survey	No Survey	No survey

REMARKS

TP-00085

HISTORY OF FIELD OPERATIONS

1. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	May - June 1970
2. HORIZONTAL CONTROL	RECOVERED BY R. Melby ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY R. Melby	May - June 1970
3. VERTICAL CONTROL	RECOVERED BY None ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None	
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 <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

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

1 Field Report

TP-00085
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	Jan. 1971	Class III manuscript SUPERSEDED		Feb. 1971
Final Review, Class III	April 1984	Final Class III Map No field edit performed	NOV 30 1984	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

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 NOS ~~502~~ 76-40 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	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT
TP-00085

This 1:20,000 scale shoreline map is one of fourteen maps that comprise project PH-6906, Controller Bay, Alaska.

This project encompasses Controller Bay from Kayak Island, latitude 59°45'00" and the east end of Controller Bay, longitude 144°00'00" northwest to the Copper River, latitude 60°20'00", longitude 145°~~00~~¹⁰'00".

In accordance with the memo dated April 10, 1984, all maps will be registered as Class III.

Field work prior to compilation was accomplished during May thru June 1969 and May thru June 1970. It consisted of the identification of horizontal control by both photo-identification and premarking methods to meet aerotriangulation requirements.

Photographic coverage was provided in August 1969 for aerotriangulation using color film with the "E" camera (focal length 152.71 millimeters) and infrared photography taken with the "K" camera (focal length of 151.77 millimeters). Both sets of photography are 1:20,000 scale. The infrared photography was not used for bridging or compilation.

Preliminary analytic aerotriangulation was completed in November 1970 and the final analytic aerotriangulation was performed in February 1971 at the Washington Science Center.

Compilation was performed at the Atlantic Marine Center in February 1971 from office interpretation of the color photographs.

Final review was performed at the Atlantic Marine Center in April 1984. Without any field verification, this map is required to be registered as a final Class III map.

FIELD INSPECTION REPORT
Project PH-6906 (OPR-487)
Shoreline Mapping
Gulf of Alaska, Cape Suckling to Copper River Flats
May - June 1970
Sheets TP - 00071 through TP - 00085

Purpose: To panel horizontal control stations in advance of aerial photography.

Horizontal Control: (Geodetic)

The triangulation stations were recovered in the designated areas. Additional control was established in areas not covered by existing triangulation. Second order methods were used in determining the new monumented stations. Distances were determined by the Model MRA 3-Mk2 Tellurometer. Seven lines were measured. On two separate occasions, the tellurometers failed to measure the line between HAM and GRAVIE. Moving the instruments to an eccentric station did not resolve the problem. Apparently some type of radio interference exists between the two stations. However, the lines measured from these two stations to other points were satisfactory.

Field computations were based on the positions furnished by the Chief, Triangulation Branch, dated May 5, 1969, on the "Anchorage-Prince William Sound Area, Alaska; Free Adjustment - 1964-1965 Surveys, Supplemental Stations". The field work by the Ship FAIRWEATHER in 1969 was also based on the same adjustment. A letter dated May 20, 1970, from Chief, Triangulation Branch to Director, Pacific Marine Center, indicates a final adjustment has been completed. The computations and adjustments of the 1969 and 1970 field seasons work, based on stations CASTLE, 1965; FOX, 1903; HAM, 1959; and BRUCE 2, 1965, could be finalized. This would combine all of the paneled stations on the same interrelated adjustment.

Horizontal Control (Photogrammetry):

All the stations were paneled with the white, polyethylene plastic material at the prescribed dimensions.

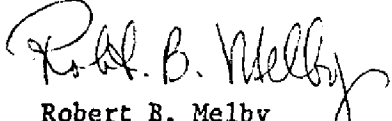
In the 1:60,000 scale flight line, Station KWIN 1970 was photo-paneled in addition to the five required stations. This station is at the Southeast end of Controller Bay. Two of the 1:10,000 scale panels on Wingham Island are along the east shore of the storm high water line (driftwood and debris) and the base of the brushy bluffs.

(2)

Station TIPS, 1969 was photo-identified. The 1969 center panel was still in place, although the rays were torn and grown over with grass. All panels for the 1970 season photography were in place by 10 June 1970. Form 152, "Control Station Identification", was submitted for each station paneled.

A helicopter was used to furnish transportation of personnel and equipment. This mode of transportation provided ready access to the remote areas and permitted the advantage of utilizing the favorable conditions of the ever-changing weather patterns.

Respectfully submitted,



Robert B. Melby
Surveying Technician USC&GS
Pacific Marine Center

Preliminary Photogrammetric Plot Report
Job PH-6906
Controller Bay, Alaska

November 4, 1970

This report covers three (3) 1:10,000 scale sheets, TP-00079, TP-00083, TP-00084 and one (1) 1:20,000 scale sheet TP-00085.

Three strips of color photographs were bridged by analytic methods (see Aerotriangulation Sketch) as follows:

1. Strip 5 1:20,000 scale 69-E(C)-1396 thru 1411
2. Strip 6 1:20,000 scale 69-E(C)-1378 thru 1392
3. Strip 7 1:10,000 scale 70-E(C)-7161 thru 7169

See sketch for control used in the bridge adjustment. Numerous tie points were used to control Strip 6. The closure to control can be found on the readout for each strip.

Ratios have been ordered for each strip bridged plus the offshore photography (see offshore photography sketch).

The southwest tip of Wingham Island (TP-00083) is not covered by the bridging photography. The compiler should drop points from model 70-E(C)-7167/7168 to ratio photo 69-E(C)-2110 in order to compile graphically this tip of the island. It will be noted that one photograph 69-E(C)-1396 on Strip 5 was cantilevered because it was beyond control. However, it is believed to be within mapping standard accuracy.

Definition and quality of the color photography is good.

Projection, grid and bridging points have been plotted by the Coradi.

This report will be superseded when the job is completed and a new photogrammetric plot report written.

Respectfully submitted,

I. I. Saperstein
I. I. Saperstein

Approved and forwarded,

Henry P. Eichert
Henry P. Eichert
Chief, Aerotriangulation
Section

Photogrammetric Plot Report
Job PH-6906
Controller Bay, Alaska

February 11, 1971

21. Area Covered

The area of the project covers Controller Bay, Copper River Flats and Kayak Island, Alaska, and consists of eleven (11) 1:10,000 scale sheets TP-00073 thru TP-00081, TP-00083, TP-00084, and three (3) 1:20,000 scale sheets TP-00071, TP-00072 and TP-00085. It will be noted that photographs covering TP-00082 were not bridged due to the fact that station BRUCE 2, 1965 was outside the limits of photography, and could not be used for a terminal for Strip 1.

22. Method

Strips 1, 2, 3, 5, 6, 7, 8, 9, and 14 were bridged by analytic aerotriangulation methods. Compilation points were located for strips 4, 10, 11, 12, and 13 from the applicable bridged strips, so that the models can be set on the B-8.

Compilation points were not located on photos 69-E(C)-2141 and 2142 on strip 11. It was impossible to find common points between the 1:60,000 scale pan. and 1:30,000 scale color photography in the water and shoal area of the above model. When the adjoining models are set on the B-8, it may be possible for the compiler to drop points on the above photos to control this one model.

Photographs covering the Bering River in the eastern part of TP-00075 ~~was~~^{were} not bridged due to lack of control.

The attached sketch of the strips bridged shows the placement of triangulation used in the final strip adjustments.

The following is a listing of enclosures to control in feet:

	x	y
S. P. KWIN, 1970	-2.4	-3.5
S. P. KANAK, 1969	+6.6	+7.3
PALM, 1969	-2.0	+0.3
COTTONWOOD, 1969	-4.0	-10.2
		(+0.5 -1.8 Strip 14)
CASTLE, 1965	+2.5	+7.0
ELI, 1969	+0.8	-0.7
GRAVIE, 1969	-1.7	+1.7
PYRA, 1969	+1.3	-1.6
S.P. TIPS, 1969	0.0	-0.5
ROCKER, 1969	+1.3	-1.2
WING, 1903	+0.2	+0.1
S. P. HAM, 1959	-0.3	-0.3
S. P. HARRIS, 1970	+0.2	+0.2
S. P. FITZ, 1970	-0.1	-0.1
S. P. INGA, 1969	0.0	0.0

Bridging points on Alaska Zone 3 plane coordinate system have been plotted by Coradimat.

23. Adequacy of Control

The number of horizontal control stations in Controller Bay and Copper River Flats was minimal. Strips 1, 5, and 7 were bridged using triangulation stations only as horizontal control in the adjustments. The other bridged strips were adjusted using triangulation stations and tie points as control. Two strips (8 and 9) were bridged using the tie points only.

At the time we were ready to adjust our photogrammetric strips in the northern part of the project, we discovered that a readjustment of control in the project area was pending in the Division of Geodesy as a result of geodetic work performed subsequent to the Alaskan earthquake of 1964. At our request, they performed the adjustment so we could make our delivery deadline for compilation. A partial list was received by us and used. The shift in datum was about 30 feet.

We were also informed by Geodesy that a shift of about the same magnitude would apply to the area in the southern part of the project which had already been bridged and compiled. This, of course, required a photogrammetric readjustment of the bridging in that area.

When this work was completed, we were furnished with a complete list of readjusted positions covering the project area. It was then discovered that there were some discrepancies in position between this list and the partial list previously submitted. The largest discrepancies were in positions for stations COTTONWOOD, 1965 and KWIN, 1970. Geodesy has stated that the position for COTTONWOOD is weak, there being a poor triangle closure.

No further photogrammetric adjustment was made to the strips already bridged, notably strip 1, in order to meet deadlines. Points taken from strip 1 will necessarily be slightly out of position also. The differences of position between the Preliminary Office Computations (partial list) and the final positions for station COTTONWOOD are x-4.8 ft., y+2.2 ft. and KWIN x+2.4 ft., y+0.2 ft.

It is believed, however, the maps will meet the standards of map accuracy.

24. Supplemental Data

Vertical control needed for the adjustment was taken from U.S.G.S. Quadrangles.

25. Photography

The definition and quality of the RC-9 "M" and RC-8 "E" photography was poor and good respectively. Coverage was adequate to compile all sheets except those mentioned under Item 21 and 22.

The following is a listing of photographs for each strip:

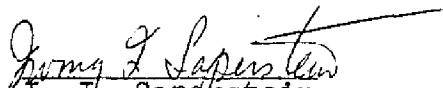
Strip 1 -- 70-M-301 thru 315
Strip 2 -- 70-M-289 thru 294
Strip 3 -- 70-M-233 thru 238
Strip 4 -- 70-E(C)-7030 thru 7039
Strip 5 -- 69-E(C)-1396 thru 1411
Strip 6 -- 69-E(C)-1378 thru 1393
Strip 7 -- 70-E(C)-7161 thru 7169
Strip 8 -- 69-E(C)-2113 thru 2119
Strip 9 -- 69-E(C)-2152 thru 2161
Strip 10 -- 69-E(C)-2123 thru 2131
Strip 11 -- 69-E(C)-2134 thru 2144

Strip 12 -- 69-E(C)-2182 thru 2185
Strip 13 -- 69-E(C)-2178 thru 2179
Strip 14 -- 69-E(C)-2167 thru 2174


Strips 1, 2, and 3 -- 1:60,000 scale photographs
Strips 4, 5, 6, and 8 thru 14 -- 1:30,000 scale photographs
Strip 7 -- 1:10,000 scale photographs

Ratio prints have been ordered to facilitate compilation,
and for photo-hydro support.

Respectfully submitted,


I. I. Saperstein

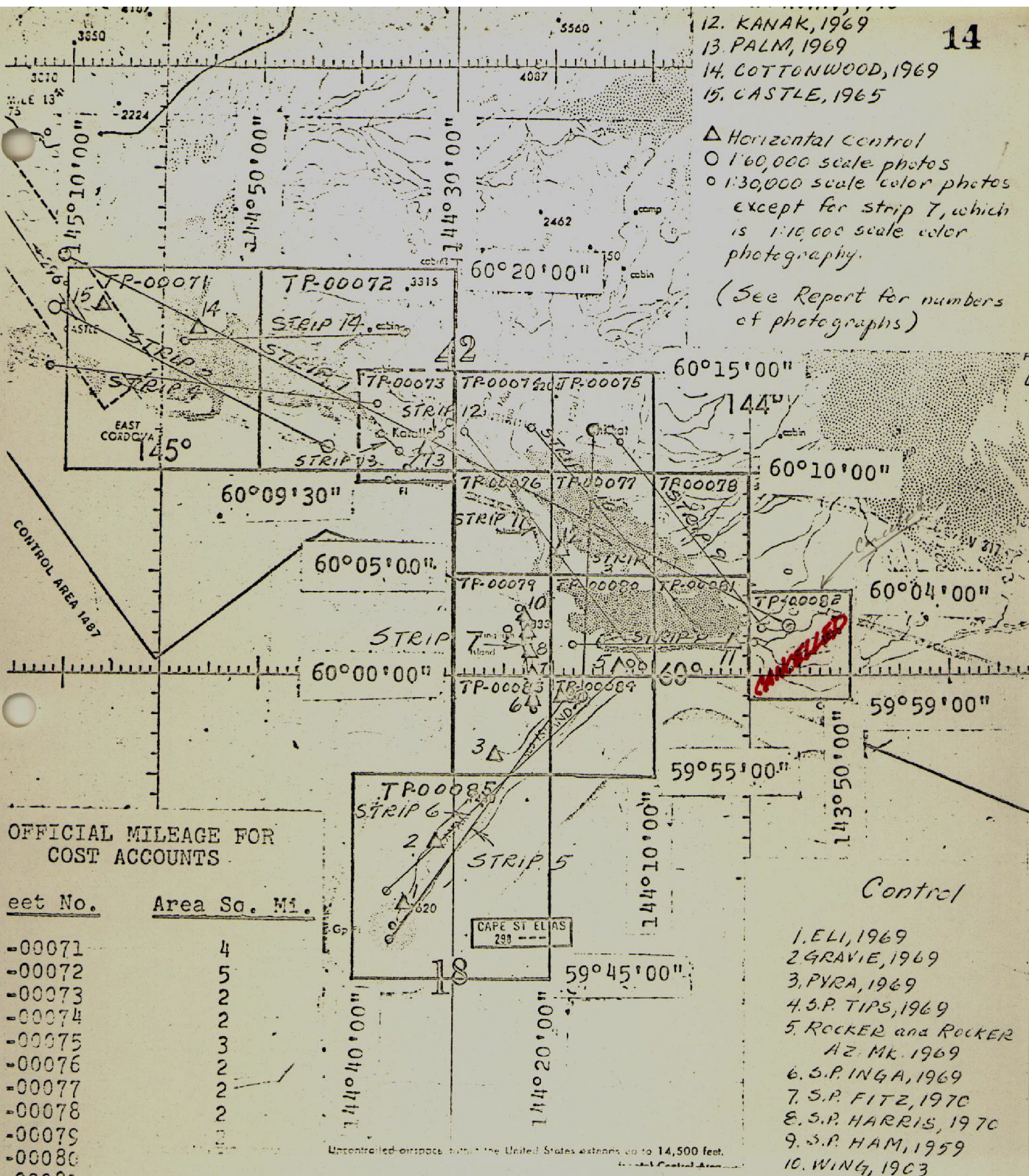
Approved and forwarded,


Henry P. Eichert
Chief, Aerotriangulation Section

12. KANAK, 1969
 13. PALM, 1969
 14. COTTONWOOD, 1969
 15. CASTLE, 1965

△ Horizontal Control
 ○ 1:60,000 scale photos
 ○ 1:30,000 scale color photos
 except for strip 7, which
 is 1:10,000 scale color
 photography.

(See Report for numbers
 of photographs)



OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No. Area Sq. Mi.

-00071	4
-00072	5
-00073	2
-00074	2
-00075	3
-00076	2
-00077	2
-00078	2
-00079	2
-00080	2
-00081	2
-00082	2
-00083	2
-00084	2
-00085	2
TOTAL	52

AEROTRIANGULATION SKETCH JOB PH-6906

CONTROLLER BAY
 ALASKA

SHORELINE MAPPING
 SCALES 1:10,000 1:20,000

Control

1. ELI, 1969
 2. GRAVIE, 1969
 3. PYRA, 1969
 4. S.P. TIPS, 1969
 5. ROCKER and ROCKER
 AZ. MK. 1969
 6. S.P. RINGA, 1969
 7. S.P. FITZ, 1970
 8. S.P. HARRIS, 1970
 9. S.P. HAM, 1959
 10. WING, 1963

Uncontrolled airspace within the United States extends up to 14,500 feet.

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETTIC DATUM		GEOGRAPHIC POSITION		REMARKS
					NA 1927	COORDINATES IN FEET	ϕ LATITUDE	λ LONGITUDE	
					STATE	ZONE			
TP-00085	GRAVIE, 1969	PH-6906	G.P. G-145.11		Alaska		X=	ϕ 59° 52' 02.23520"	
							Y=	λ 144° 31' 26.70098"	
	ELI, 1969		G.P. G-145.11				X=	ϕ 59° 49' 10.44719"	
							Y=	λ 144° 34' 42.96611"	
	GRAVIE RM. 3, 1970		G.P. G-145.11				X=	ϕ 59° 52' 02.21792"	
							Y=	λ 144° 31' 26.54300"	
							X=	ϕ	
							Y=	λ	
							X=	ϕ	
							Y=	λ	
							X=	ϕ	
							Y=	λ	
							X=	ϕ	
							Y=	λ	
							X=	ϕ	
							Y=	λ	
							X=	ϕ	
							Y=	λ	
							X=	ϕ	
							Y=	λ	
COMPUTED BY R. White									DATE 2/2/71
LISTED BY									DATE
HAND PLOTTING BY									DATE

COMPILATION REPORT
PH-6906
TP-00085

31 - DELINEATION

The manuscript was compiled using the B-8 stereoplotting instrument with 1969 color photographs taken with the "E" camera. The offshore delineation was done graphically using offshore hydro support photography.

32 - CONTROL

The horizontal control was adequate. Refer to the Photogrammetric Plot Report, dated February 11, 1971.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours are not applicable. Drainage was compiled from office interpretation of the photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

Shoreline and alongshore details were compiled on the Wild B-8 stereoplotting instrument by office interpretation of the photographs.

36 - OFFSHORE DETAIL

Offshore details were compiled from the offshore hydro support color photography.

37 - LANDMARKS AND AIDS

Appropriate copies of 76-40's are submitted with this report.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to Data Record form 76-36B, item Number 5.

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report dated February 11, 1971.

TP-00085

46 - COMPARISON WITH EXISTING MAPS

A comparison has been made with U.S.G.S. Quadrangle Middleton Island (D-1 and D-2), Alaska, scale 1:63,360, dated 1955.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with USC&GS chart 8513, scale 1:100,000, dated August 9, 1969. Corrected N.M. 32/69.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by,

James L. Byrd, Jr.

Elmer Pursel, Jr.
Cartographic Technician
January 27, 1971

Approved,

James L. Byrd, Jr.

James L. Byrd, Jr.
Chief, Coastal Mapping Unit

REVIEW REPORT
SHORELINE
TP-00085

61. GENERAL STATEMENT

See Summary included with this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S. Quadrangle: Middleton Island (D-1 and D-2), Alaska, dated 1955, scale 1:63,360.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There was no contemporary hydrographic survey conducted within the limits of this map.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with N.O.S. Chart: 16723, dated December 27, 1980, 13th edition, scale 1:100,000.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

The horizontal control meets the accuracy requirements insuring this map complies with the project instructions and meets the prerequisite for National Standards of Map Accuracy.

Submitted by,

Lowell O. Neterer, Jr.

Lowell O. Neterer, Jr.

Final Review

Approved for forwarding,

Billy H. Barnes

Billy H. Barnes

Chief, Photogrammetric Section, AMC

Approved,

Ar

Ronald K. Brewer

Chief, Photogrammetric Section, Rockville

Ronald K. Brewer
Chief, Photogrammetry Branch,
Rockville

March 22, 1984

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH - 6906 (Controller Bay, Alaska)
TP - 00085

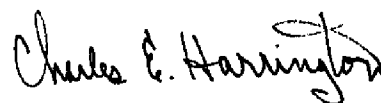
Cape St. Elias

Gulf of Alaska

Kayak Island

Pinnacle Rock

Approved by;

A handwritten signature in cursive script that reads "Charles E. Harrington".

Charles E. Harrington
Chief Geographer
Nautical Charting Division

Replaces C&GS Form 567.

NON-EXHAUSTIVE LIST OF LANDMARKS FOR CHARTS

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	<input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	OFFICE ACTIVITY REPRESENTATIVE
ACTIVITIES	<input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	FIELD (Cont'd) B. Photogrammetric field positions* require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field P - Photogrammetric L - Located Vis - Visually V - Verified 1 - Triangulation 5 - Field identified 2 - Traverse 6 - Theodolite 3 - Intersection 7 - Planetable 4 - Resection 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75 *FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

Replaces C&GS Form 567.

NONFLOATING AIDS OR LEANING TOWERS FOR CHARTS

U.S. DEPARTMENT OF COMMERCE
INDUSTRIAL AND AEROSPACE ADMINISTRATION

ORIGINATING ACTIVITY

- ☐ HYDROGRAPHIC PARTY
☐ GEODETIC PARTY
☐ PHOTO FIELD PARTY
☐ COMPILATION ACTIVITY
☒ FINAL REVIEWER
☐ QUALITY CONTROL & REVIEW GRP.
☐ COAST PILOT BRANCH
- (See reverse for responsible personnel)

<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED	REPORTING UNIT <i>(Field Party, Ship or Office)</i> Coastal Mapping Unit, AMC, Norfolk, VA	STATE Alaska	LOCALITY Controller Bay	DATE Mar. 1982	<input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH <i>(See reverse for responsible personnel)</i>
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The following objects HAVE ☐ HAVE NOT ☒ been inspected from seaward to determine their value as landmarks.

The following objects HAVE ☐ HAVE NOT ☒ been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM	METHOD AND DATE OF LOCATION (See instructions on reverse side)	CHARTS
487	PH-6906	TP-00085	NA 1927 POSITION		

METHOD AND DATE OF LOCATION
(See instructions on reverse side)

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	LATITUDE		LONGITUDE		OFFICE	FIELD	AFFECTED		
		°	'	"	°				'	"
LIGHT	Cape St. Elias, Light	59	47	56.10	144	48.99	69 E(C) 1396			
				1736	35	764	8-13-69			

RADIO BEACON	298 KHZ	59 47	144	35	NOT VISIBLE		
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[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

**CHARTS
AFFECTED**

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	<input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	<input type="checkbox"/> OFFICE ACTIVITY REPRESENTATIVE <input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
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*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

