

TP-00081

TP-00081

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
<h1>DESCRIPTIVE REPORT</h1>	
THIS MAP EDITION WILL NOT BE FIELD EDITED	
<i>Map No.</i> TP-00081	<i>Edition No.</i> 1
<i>Job No.</i> PH-6906	
<i>Map Classification</i> CLASS III FINAL	
<i>Type of Survey</i> SHORELINE	
<h2>LOCALITY</h2>	
<i>State</i> ALASKA	
<i>General Locality</i> CONTROLLER BAY	
<i>Locality</i> OKALEE RIVER	
<div style="border: 1px solid black; padding: 5px; text-align: center;">           19 69 TO 19         </div>	
<h2>REGISTERED IN ARCHIVES</h2>	
<i>DATE</i>	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY TP. <u>00081</u>	
DESCRIPTIVE REPORT - DATA RECORD				<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. <u>(1)</u>	
				<input type="checkbox"/> RESURVEY		MAP CLASS <u>III FINAL</u>	
				<input type="checkbox"/> REVISED		JOB PH. <u>6906</u>	
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  Polyconic				4. GRID(S)			
				STATE Alaska		ZONE 3	
5. SCALE 1:10,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY				I. Saperstein		Feb. 1971	
METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY				H. Eichert		Feb. 1971	
2. CONTROL AND BRIDGE POINTS PLOTTED BY				I Saperstein		Feb. 1971	
METHOD: <u>Coradomat</u> CHECKED BY				H. Eichert		Feb. 1971	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				A. Shands		April 1971	
COMPILATION CHECKED BY				R. White		April 1971	
INSTRUMENT: <u>Wild B-8</u> CONTOURS BY				N.A.			
SCALE: <u>1:10,000</u> CHECKED BY				N.A.			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				L. Graves		July 1971	
CHECKED BY				A. Shands		July 1971	
METHOD: <u>Smooth drafted</u> CONTOURS BY				N.A.			
CHECKED BY				N.A.			
SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY				L. Graves		July 1971	
CHECKED BY				A. Shands		July 1971	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				A. Shands		July 1971	
6. APPLICATION OF FIELD EDIT DATA BY				N.A.			
CHECKED BY				N.A.			
7. COMPILATION SECTION REVIEW CLASS <u>III</u> BY				F. Mauldin		Jan. 1984	
8. FINAL REVIEW CLASS <u>III</u> BY				L. O. Neterer, Jr.		May 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 SURVEY

TP-00081

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) RC-8 "E" Focal length = 152.71mm		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				ZONE Yukon	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 135th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
69 E(C) 2123 and 2124	Aug. 25, 1969	09:42	1:30,000	5.9 ft. above MLLW	
69 E(C) 2116 - 2119	Aug. 25, 1969	09:31	1:30,000	5.4 ft. above MLLW	
69 E(C) 2154	Aug. 25, 1969	10:09	1:30,000	5.8 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
TP-00078	No Survey	No Survey	TP-00080

REMARKS

TP-00081

## 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	May-June 1970
	ESTABLISHED BY R. Melby	May-June 1970
	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 None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY None	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
70 M 302	KWIN, 1970		

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

I. MANUSCRIPT COPIES				
COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	July 1971	Class III manuscript SUPERSEDED		July 1971
Final Review Class III	May 1984	Final Class III Map No field edit performed	NOV 30 1984	

**II. LANDMARKS AND AIDS TO NAVIGATION** NONE

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: NONE
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

**III. FEDERAL RECORDS CENTER DATA**

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.

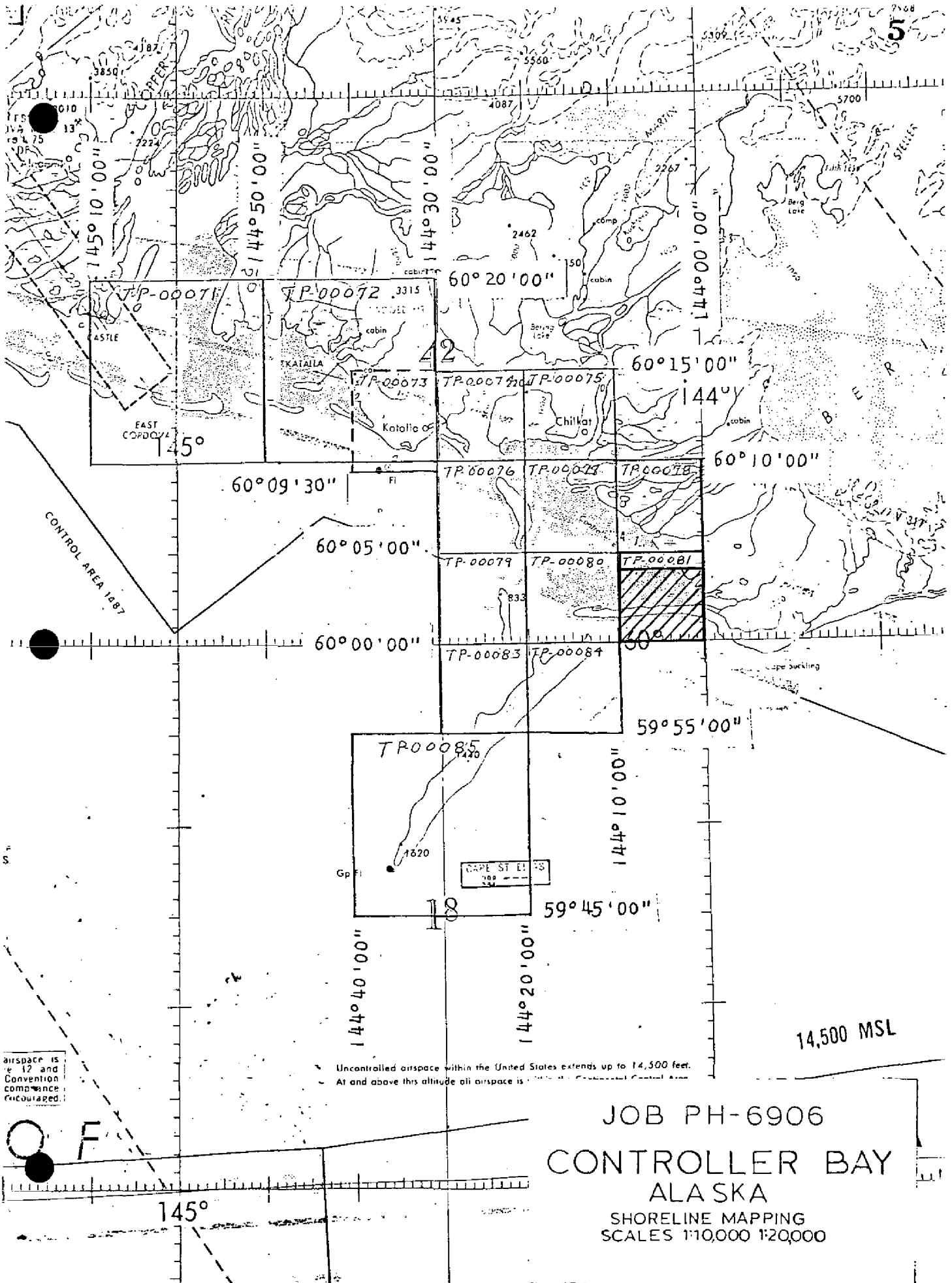
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS ~~3635~~ 76-40 SUBMITTED BY FIELD PARTIES.

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-00081

This 1:10,000 scale map is one of fourteen maps that comprise project PH-6906, Controller Bay.

The 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°00'00".

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 151.77 millimeters). Both sets of photography are 1:30,000 scale. The infrared photography was not used for bridging or compilation. Black-and-white photographs taken during 1970 using the "M" camera (focal length 88.20 millimeters) at 1:60,000 scale were used for bridging.

Analytic aerotriangulation was performed in February 1971 at the Washington Science Center.

Compilation was performed at the Atlantic Marine Center in July 1970 from office interpretation of the photographs.

Final review was performed at the Atlantic Marine Center in May 1984. Without any field edit, 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.

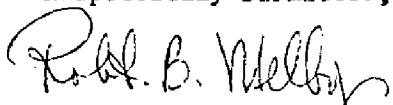
In the 1:60,000 scale flight line, Station KWIN 1970 was photo-paneled in addition to the five required stations. This station is at the Southeast end of Controller Bay. Two of the 1:10,000 scale panels on Wingham Island are along the east shore of the storm high water line (driftwood and debris) and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



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

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 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 closures 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:

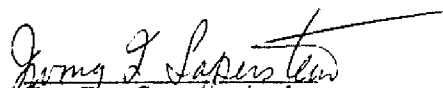
Strip 1 -- 70-M-301 thru 315  
Strip 2 -- 70-M-289 thru 294  
Strip 3 -- 70-M-233 thru 238  
Strip 4 -- 70-E(C)-7030 thru 7039  
Strip 5 -- 69-E(C)-1396 thru 1411  
Strip 6 -- 69-E(C)-1378 thru 1393  
Strip 7 -- 70-E(C)-7161 thru 7169  
Strip 8 -- 69-E(C)-2113 thru 2119  
Strip 9 -- 69-E(C)-2152 thru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

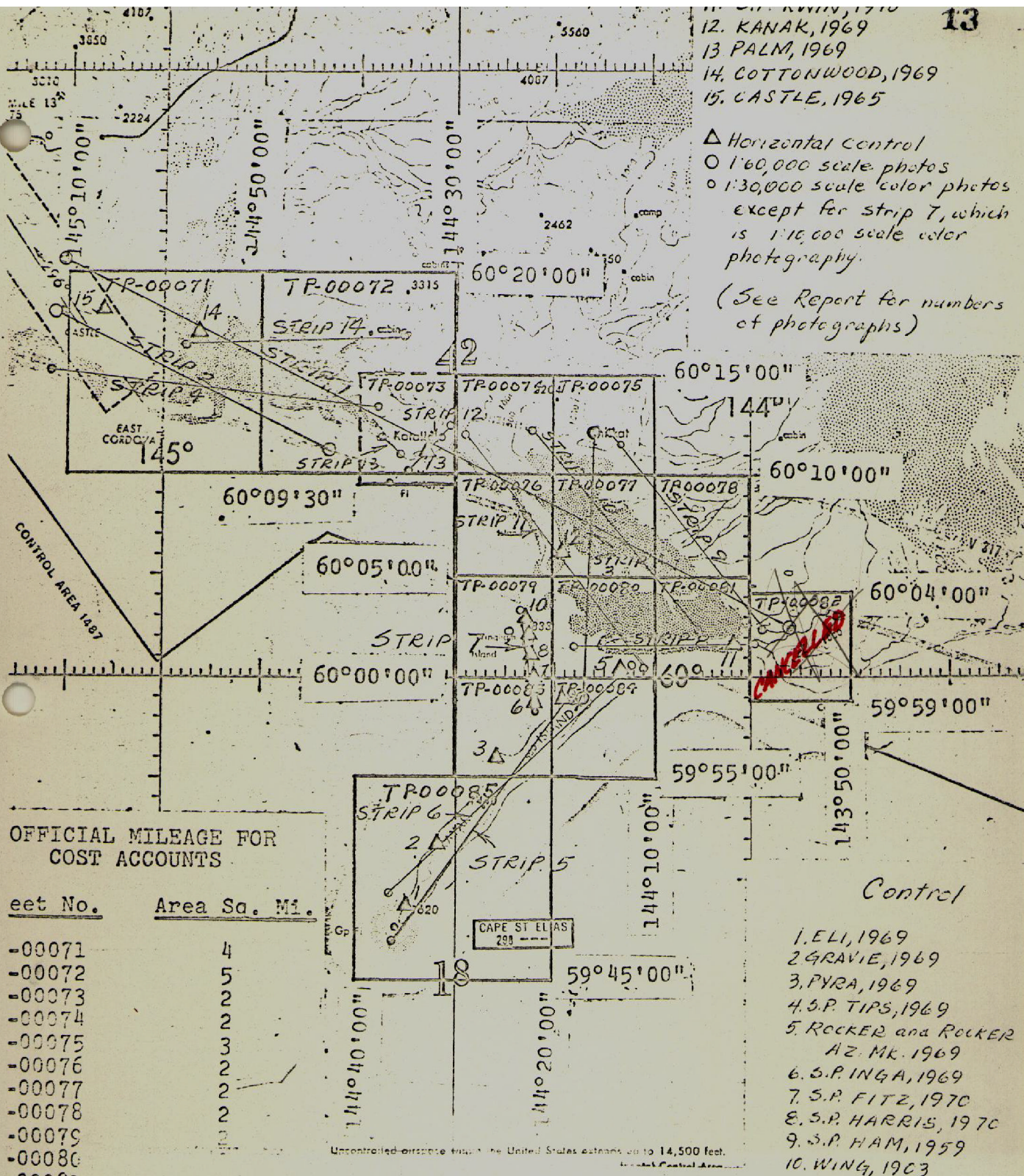
  
Henry P. Eichert  
Chief, Aerotriangulation Section



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
<b>TOTAL</b>	<b>42</b>

AEROTRIANGULATION SKETCH JOB PH-6906

CONTROLLER BAY  
 ALASKA

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





COMPILATION REPORT  
TP-00081

31 - DELINEATION

Delineation was by the Wild B-8 stereoplotting instrument. There was no field inspection prior to compilation. All photography was taken at intermediate stage of tide and was adequate.

32 - CONTROL

Horizontal control was adequate. See Photogrammetric Plot Report dated February 11, 1971.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

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

35 - SHORELINE AND ALONGSHORE DETAILS

The mean high water line and all alongshore details were delineated from office interpretation of the photographs. The effects of the earthquake made the interpretation unusually difficult.

36 - OFFSHORE DETAILS

Offshore details were compiled from office interpretation of the photographs.

37 - LANDMARKS AND AIDS

None.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

See item 5 on Form 76-36B.

40 - HORIZONTAL AND VERTICAL CONTROL

See item Number 32.



TP-00081

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with USGS Quadrangle Cordova (A-1), Alaska, scale 1:63,360, dated 1953.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with Chart 8513, scale 1:100,000, 9th edition, dated August 9, 1969.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by,

*James L. Byrd, Jr.*

L. L. Graves  
Cartographic Technician  
July 8, 1971

Approved,

*James L. Byrd, Jr.*

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

REVIEW REPORT  
SHORELINE  
TP-00081

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: Cordova (A-1), Alaska, dated 1953.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

No contemporary Hydrographic Surveys were conducted within the limits of this map.

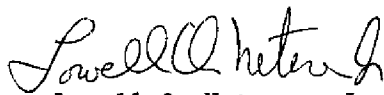
65. COMPARISON WITH NAUTICAL CHARTS

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

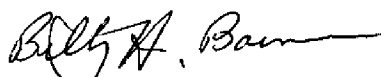
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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


Submitted by,


  
Lowell O. Neterer, Jr.  
Final Reviewer

Approved for forwarding,

  
Billy H. Barnes  
Chief, Photogrammetric Section, AMC

Approved,

  
Chief, Photogrammetric Section, Rockville,

  
Chief, Photogrammetric Section  
Rockville

March 22, 1984

GEOGRAPHIC NAMES  
FINAL NAME SHEET  
PH - 6906 (Controller Bay, Alaska)  
TP - 00081

Controller Bay

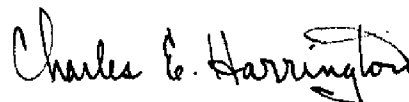
Gulf of Alaska

Kwinlatah Slough

Okalee River

Okalée Spit

Approved by;

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

Charles E. Harrington  
Chief Geographer  
Nautical Charting Division



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'	
(Consult Photogrammetric Instructions No. 64.)	
<b>OFFICE</b> <b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> 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	<b>FIELD (Cont'd)</b> <b>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.</b> EXAMPLE: P-8-V 8-12-75 74L(C)2982
<b>FIELD</b> <b>I. NEW POSITION DETERMINED OR VERIFIED</b> Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	<b>II. TRIANGULATION STATION RECOVERED</b> 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 <b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 <b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</b>
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	



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"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
<b>OFFICE</b> <b>1. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> 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	<b>FIELD (Cont'd)</b> <b>B. Photogrammetric field positions* require</b> 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
<b>FIELD</b> <b>I. NEW POSITION DETERMINED OR VERIFIED</b> 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	<b>III. TRIANGULATION STATION RECOVERED</b> 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  <b>II. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75  <b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</b>
<b>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.</b>	

## RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

## INSTRUCTIONS

**A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart**

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Re-

[illegible]