TP-00083

TP-00083

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.	*Edition No.*
TP-00083	1

Job No.
PH-6906

Map Classification
CLASS III FINAL

Type of Survey
SHORELINE

LOCALITY

State
ALASKA

General Locality
CONTROLLER BAY

Locality
KAYAK ENTRANCE

1969 TO 19

REGISTERED IN ARCHIVES

DATE

* U.S. GOVERNMENT PRINTING OFFICE: 1980-665-115

NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY
- [x] ORIGINAL
- [ ] RESURVEY
- [ ] REVISED

SURVEY TP. 00083
MAP EDITION NO. 1
MAP CLASS III FINAL
JOB PH. 6906

PHOTOGRAMMETRIC OFFICE
Coastal Mapping Unit, Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE
A. Y. Bryson, CDR

LAST PRECEEDING MAP EDITION
TYPE OF SURVEY
- [ ] ORIGINAL
- [ ] RESURVEY
- [ ] REVISED

JOB PH.
MAP CLASS
SURVEY DATES:
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: [x] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [x] 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: 1:10,000 — 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 COMPILATION	PLANIMETRY BY	L. O. Neterer, Jr.	Dec. 1970
	CHECKED BY	R. White	Dec. 1970
INSTRUMENT: Wild B-8	CONTOURS BY	N.A.	
SCALE: 1:10,000	CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	C. Blood	Jan. 1971
	CHECKED BY	E. Pursel	Feb. 1971
METHOD: Smooth drafted	CONTOURS BY	N.A.	
	CHECKED BY	N.A.	
SCALE: 1:10,000	HYDRO SUPPORT DATA BY	C. Blood	Jan. 1971
	CHECKED BY	E. Pursel	Feb. 1971
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	E. Pursel	Feb. 1971
6. APPLICATION OF FIELD EDIT DATA	BY	N.A.	
	CHECKED BY	N.A.	
7. COMPILATION SECTION REVIEW CLASS III	BY	F. Mauldin	Dec. 1983
8. FINAL REVIEW CLASS III	BY	L. O. Neterer, Jr.	June 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 76-36A SUPERSEDES FORM C&GS 181 SERIES

*U.S. GOVERNMENT PRINTING OFFICE-1977-765-092

NOAA FORM 76-36B
(3-72)

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

TP-00083

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): RC-8 "E" Focal Length=152.71mm

TIDE STAGE REFERENCE
- [x] PREDICTED TIDES
- [ ] REFERENCE STATION RECORDS
- [ ] TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
(C) COLOR
(P) PANCHROMATIC
(I) INFRARED

TIME REFERENCE
ZONE: Yukon — [x] STANDARD
MERIDIAN: 135th — [ ] DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
69 E(C) 1384 - 1385	Aug.13,1969	11:22	1:20,000	5.2 ft. above MLLW
69 E(C) 1406 - 1407	Aug.13,1969	11:38	1:20,000	6.0 ft. above MLLW
69 E(C) 1410	Aug.13,1969	11:38	1:20,000	6.0 ft. above MLLW
69 E(C) 1428 - 1431	Aug.13,1969	12:11	1:20,000	7.0 ft. above MLLW
69 E(C) 1445 - 1446	Aug.13,1969	12:27	1:20,000	7.3 ft. above MLLW
69 E(C) 1467 - 1468	Aug.13,1969	12:42	1:20,000	7.9 ft. above MLLW
69 E(C) 2111	Aug.25,1969	09:14	1:20,000	4.8 ft. above MLLW
69 E(C) 7168 - 7169	July25,1970	09:56	1:10,000	3.2 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 (Scale 1:20,000)	WEST
TP-00079	TP-00084	TP-00085	No Survey

REMARKS

NOAA FORM 76-36B
(3-72)

*U.S. GOVERNMENT PRINTING OFFICE:1977-765-092

NOAA FORM 76-36C
(3-72)

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

TP-00083

HISTORY OF FIELD OPERATIONS

I. [x] FIELD INSPECTION OPERATION [ ] FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R. B. Melby	May-June 1970
2. HORIZONTAL CONTROL	RECOVERED BY	R. B. Melby	May-June 1970
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	R. B. 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: [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [x] NO INVESTIGATION — BY		
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
None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
70 E(C)7168	INGA, 1969		
69 E(C)1468	PYRA, 1969		

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 [x] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [x] 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

☆ U.S. GPO: 1977-765-092/1105 Region 6

NOAA FORM 76-36D
(3-72)

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

TP-00083

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	June 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. ~~76-36X~~ 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:

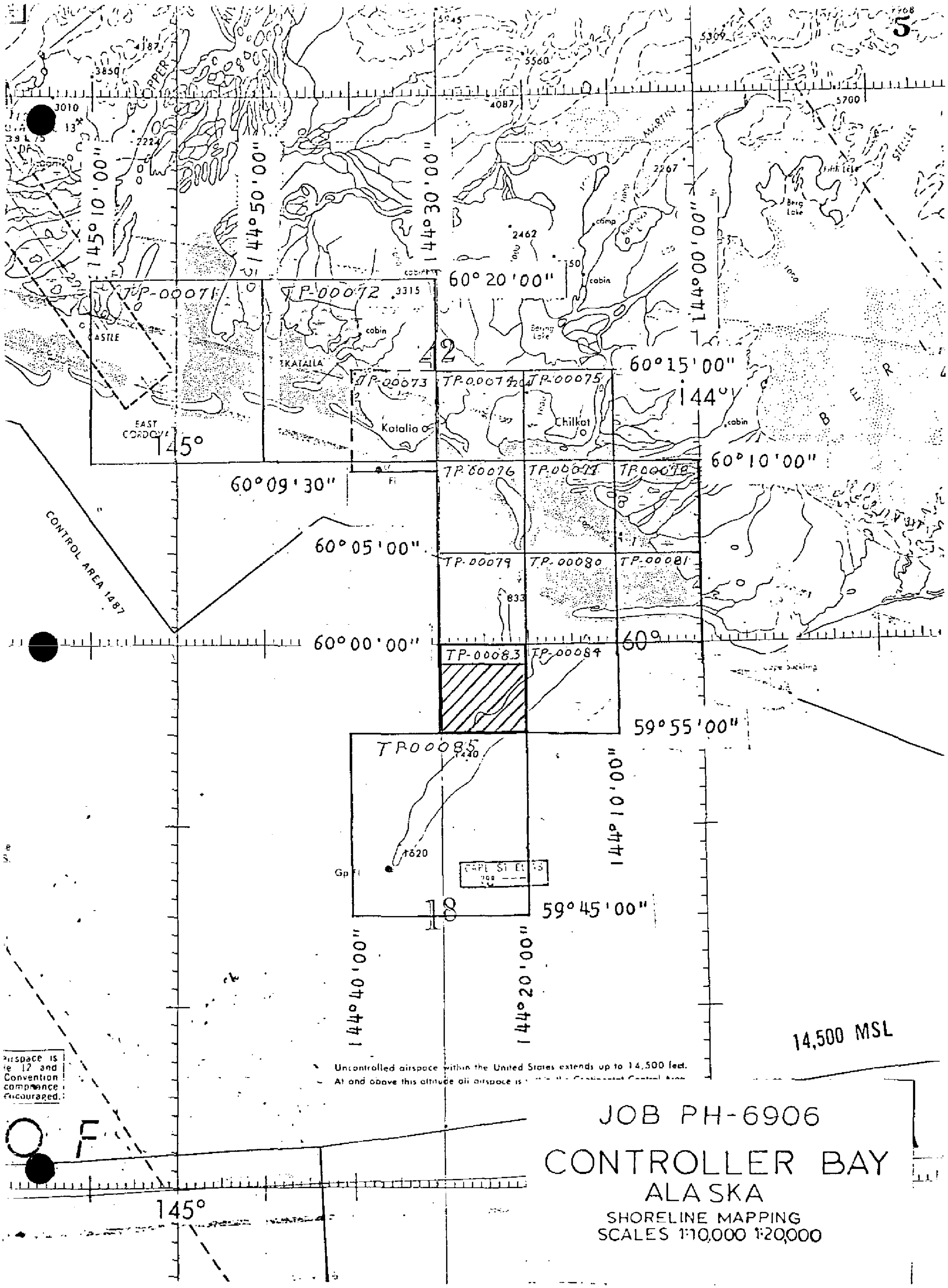
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH- _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL

NOAA FORM 76-36D

*U.S. GOVERNMENT PRINTING OFFICE:1977-765-092



JOB PH-6906

CONTROLLER BAY
ALASKA

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

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT
TP-00083

This 1:10,000 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°00'00".

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 requirement.

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 1:20,000 scale. The infrared photography was not used for bridging or compilation. Black-and-white photographs at 1:60,000 scale taken during July 1970 using the "M" camera (focal length 88.20 millimeters) were used for bridging.

Color photographs at 1:10,000 scale taken during July 1970 with the "E" camera were used for compilation.

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

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

Final review was performed at the Atlantic Marine Center in May 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.

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

Approved and forwarded,

Henry P. Eichert FOR
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 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 discripancies 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

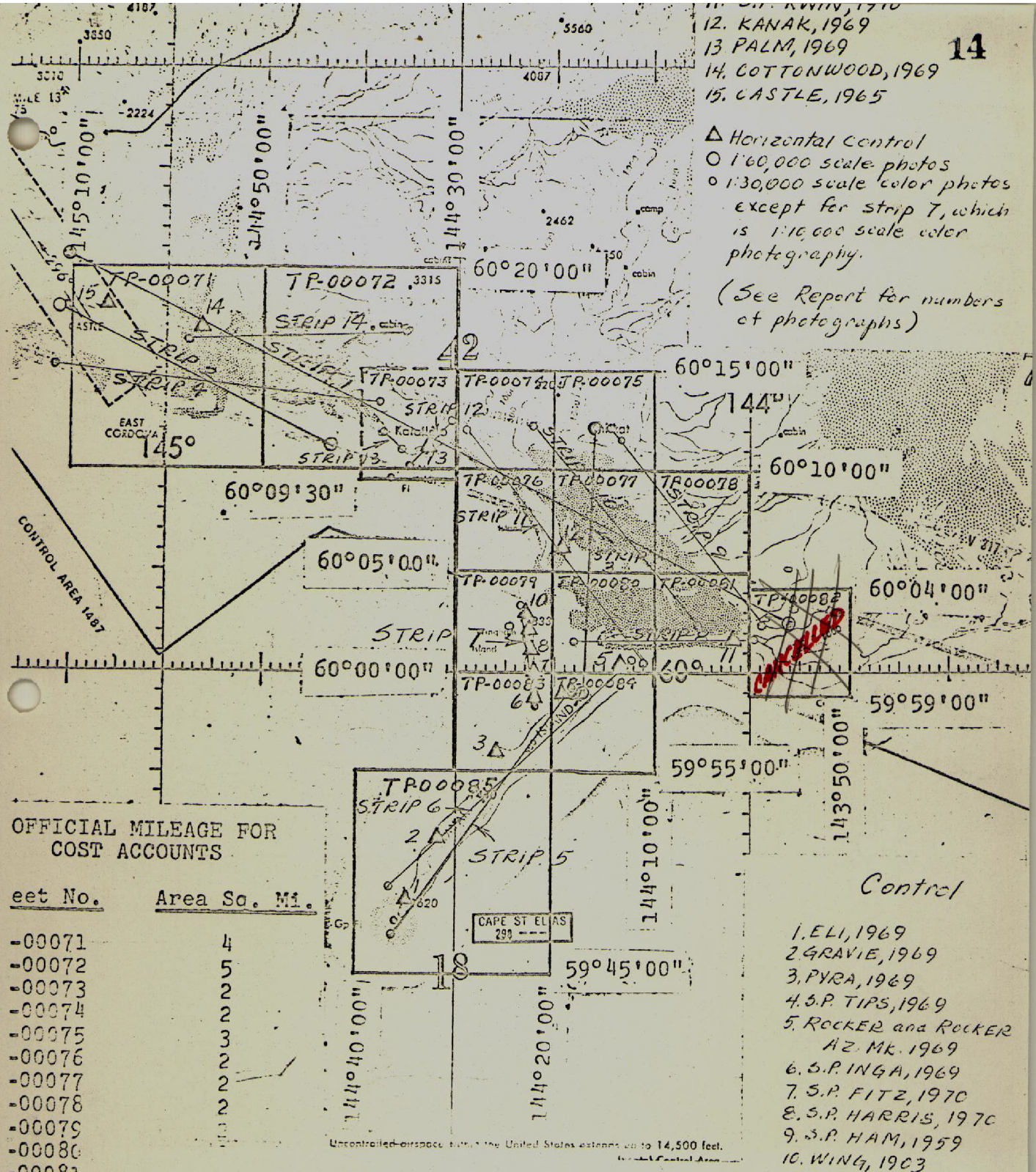
Ratio prints have been ordered to facilitate compilation, and for photo-hydro support.

Respectfully submitted,

I. I. Saperstein

Approved and forwarded,

Henry P. Eichert
Chief, Aerotriangulation Section



OFFICIAL MILEAGE FOR COST ACCOUNTS

eet No.	Area Sq. Mi.
-00071	4
-00072	5
-00073	2
-00074	2
-00075	3
-00076	2
-00077	2
-00078	2
-00079	
-00080	
-00081	
-00082	
-00083	
-00084	
-00085	5
TOTAL	42

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. INGA, 1969
7. S.P. FITZ, 1970
8. S.P. HARRIS, 1970
9. S.P. HAM, 1959
10. WING, 1903

AEROTRIANGULATION SKETCH JOB PH-6906

CONTROLLER BAY
ALASKA

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

NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-00083	PH-6906	NA 1927	Coastal Mapping Unit, Atlantic Marine Center, Norfolk, VA

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE ZONE	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	REMARKS FORWARD	REMARKS BACK
PYRAMID PEAK , 1906	G.P. G 145.11		x=	ϕ 59°55'55.28446"	1710.94	145.94
			y=	λ 144°24'13.55545"	210.56	721.42
PYRA, 1969	G.P. G 145.11		x=	ϕ 59°56'23.87977"	739.03	1117.85
			y=	λ 144°25'41.57574"	645.63	286.11
INGA, 1969	G.P. G 145.11		x=	ϕ 59°59'17.24393"	533.67	1323.23
			y=	λ 144°22'08.63129"	1133.84	796.52
			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	DATE	COMPUTATION CHECKED BY	DATE
R. White	2/2/71	B. H. Barnes	2/2/71
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
PH-6906
TP-00083

31 - DELINEATION

Wingham Island and the point of Kayak Island in the vicinity of 59°56'30" latitude and 144°26'00" longitude were compiled graphically. The remainder of Kayak Island was compiled on the Wild B-8 stereoplotting instrument using the 1:20,000 scale photography.

32 - CONTROL

Horizontal control was adequate. Density and placement of control was satisfactory. See Photogrammetric Plot Reports dated November 4,1970 and 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

All shoreline and alongshore details were compiled from office interpretation of the photographs. Shadows on the west side of the Islands made visibility poor. A MLLW line was not compiled by office interpretation of the photographs; the stage of tide was too high.

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 form 76-36B, item #5.

TP-00083

40 - HORIZONTAL AND VERTICAL ACCURACY

See item Number 32.

46 - COMPARISON WITH EXISTING MAPS

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

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with USC&GS Chart 8513, scale 1:100,000, dated August 9, 1969.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Respectfully submitted,

James L. Byrd for

C. E. Blood
Cartographic Technician
January 26, 1971

Approved,

James L. Byrd, Jr.

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

REVIEW REPORT
SHORELINE
TP-00083

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 is not contemporary hydrographic survey 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 prerequisites for National Standards of Map Accuracy.

Submitted by,

Lowell O. Neterer

Lowell O. Neterer, Jr.
Final Reviewer

Approved for forwarding,

Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,

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 - 00083

Gulf of Alaska

Kayak Entrance

Kayak Island

Wingham Island

Approved by;

Charles E. Harrington

Charles E. Harrington
Chief Geographer
Nautical Charting Division

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
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [x] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [x] TO BE CHARTED
- [ ] TO BE REVISED
- [ ] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Coastal Mapping Unit, AMC, Norfolk, VA	Alaska	Controller Bay	June 1983

The following objects HAVE [ ] HAVE NOT [x] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
487	PH-6906	TP-00083	NA 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	POSITION LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	POSITION LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	METHOD AND DATE OF LOCATION FIELD	CHARTS AFFECTED
	NONE							

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	**NAME**	**ORIGINATOR**
OBJECTS INSPECTED FROM SEAWARD		☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED		FIELD ACTIVITY REPRESENTATIVE
		OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		☐ REVIEWER ☐ 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

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.

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

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.

☆ U.S.GPO:1975-0-665-080/1155

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
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- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

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TYPE OF ACTION	**NAME**	**ORIGINATOR**
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		OFFICE ACTIVITY REPRESENTATIVE
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EXAMPLE: V-Vis.
8-12-75

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NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

☆ U.S.GPO:1975-0-665-080/1155

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

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 Rev

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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