

TP-01167

TP-01167

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

DESCRIPTIVE REPORT

This map will not be field edited.

<i>Map No.</i> TP-01167	<i>Edition No.</i> 1
<i>Job No.</i> CM-8204	
<i>Map Classification</i> Class III	
<i>Type of Survey</i> Shoreline	
LOCALITY	
<i>State</i> Alaska	
<i>General Locality</i> NE coast of Baranof Island; Catherine Island	
<i>Locality</i> Chatham Strait; Kelp Bay northwest to Hanus Bay	
1983 TO 19	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72) <div style="text-align: right; font-size: small;"> U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN. </div>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		SURVEY TP. <u>01167</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III</u> JOB <u>XPRCM-8204</u>	
DESCRIPTIVE REPORT - DATA RECORD					
PHOTOGRAMMETRIC OFFICE Photogrammetry Branch, Rockville, MD		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED			
OFFICER-IN-CHARGE Ronald K. Brewer		JOB <u>PH</u> MAP CLASS _____ SURVEY DATES: _____ 19__ TO 19__			
I. INSTRUCTIONS DATED					
1. OFFICE			2. FIELD		
Aerotriangulation October 18, 1984 Office March 8, 1985			Field, March 9, 1983		
II. DATUMS					
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH-AMERICAN			OTHER (Specify) _____		
2. VERTICAL: <div style="display: inline-block; vertical-align: top; font-size: small;"> <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL </div>			OTHER (Specify) _____		
3. MAP PROJECTION Oblique Mercator Projection			4. GRID(S) STATE <u>Alaska</u> ZONE <u>Zone 1</u>		
5. SCALE 1: 20,000			STATE _____ ZONE _____		
III. HISTORY OF OFFICE OPERATIONS					
OPERATIONS		NAME		DATE	
1. AEROTRIANGULATION METHOD: <u>Analytical</u> LANDMARKS AND AIDS BY		BY <u>J. Taylor</u> N/A		Oct. 1984	
2. CONTROL AND BRIDGE POINTS METHOD: <u>Calcomp</u> PLOTTED BY		BY <u>J. Taylor</u> N/A		Oct. 1984	
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: <u>Wild B-8</u> SCALE: <u>1: 20,000</u>		PLANIMETRY BY <u>D. Graham</u> CHECKED BY <u>J. Dempsey</u> CONTOURS BY <u>N/A</u> CHECKED BY <u>N/A</u>		May 1985 May 1985	
4. MANUSCRIPT DELINEATION METHOD: <u>Smooth Drafted</u> SCALE: <u>1: 20,000</u>		PLANIMETRY BY <u>D. Graham</u> CHECKED BY <u>E. Allen</u> CONTOURS BY <u>N/A</u> CHECKED BY <u>N/A</u> HYDRO SUPPORT DATA BY <u>N/A</u> CHECKED BY <u>N/A</u>		June 1985 June 1985	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT		BY <u>N/A</u>			
6. APPLICATION OF FIELD EDIT DATA		BY <u>N/A</u> CHECKED BY <u>N/A</u>			
7. COMPILATION SECTION REVIEW		BY <u>E. Allen</u>		June 1985	
8. FINAL REVIEW		BY <u>R. Rodkey</u>		July 1985	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH		BY <u>R. Rodkey</u>		August 1985	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH		BY <u>P. Dempsey</u>		Sept. 1985	
11. MAP REGISTERED - COASTAL SURVEY SECTION		BY <u>E. DAUGHERTY</u>		Dec 85	

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

COMPILATION SOURCES

TP-01167

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-10(B) F/L= 152.74mm		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (R) 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 Pacific	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
		MERIDIAN 120 th W			
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
83B(C) 4293, 4294, 4296, 4298	July 7, 1983	10:05	1:50,000	3.8 Ft. below MHW*	
83B(C) 4307, 4309, 4311, 4313, 4315, 4317	July 7, 1983	10:19	1:50,000	3.4 Ft. below MHW*	
83B(C) 4323, 4325, 4327, 4329, 4331, 4333	July 7, 1983	10:32	1:50,000	3.0 Ft. below MHW*	
83B(R) 4800-4802	July 16, 1983	13:11	1:30,000	1.0 Ft. above MLLW*	
83B(R) 4804-4810	July 16, 1983	13:20	1:30,000	1.0 Ft. above MLLW*	
83B(R) 4812-4821	July 16, 1983	13:29	1:30,000	1.3 Ft. above MLLW*	

REMARKS

* Tidal stages based on predicted tides referenced to station Juneau, Alaska and substation Kasnyku.

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from an office interpretation of the color photographs listed above through standard photogrammetric compilation techniques.

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

The mean lower low water line was compiled graphically utilizing ratio prints of the infrared photographs listed above. The eastern shoreline of Catherine Island was not covered by infrared MLLW photography. The ledge symbol along this section of the island was delineated through an office interpretation of the color photographs listed above.

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
none	none	none	none

REMARKS

HISTORY OF FIELD OPERATIONS.

TP-01167

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION.

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		J. M. Wintermyre	May 1983
2. HORIZONTAL CONTROL	RECOVERED BY	J. M. Wintermyre	May 1983
	ESTABLISHED BY	J. M. Wintermyre	May 1983
	PRE-MARKED OR IDENTIFIED BY	J. M. Wintermyre	May 1983
3. VERTICAL CONTROL	RECOVERED BY	N/A	
	ESTABLISHED BY	N/A	
	PRE-MARKED OR IDENTIFIED BY	N/A	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY	J. M. Wintermyre	May 1983
	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	N/A	
II. SOURCE DATA			
1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
Premark		N/A	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
83 B(C)4293	COVE 2, 1925, Sub. Sta. A		
83 B(C)4327	GENE, Sub Sta A		
83 B(C)4329	NARD, Sub Sta A		
3. PHOTO NUMBERS (Clarification of details)			
N/A			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED			
None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS			
None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)			
Five (5) NOAA Forms 76-53 (CSI Cards)			
Six (6) NOAA Forms 76-53 (CSI Cards for Photo/Horiz Control).			
One (1) Field Report (Shoreline Mapping Report)			
One (1) Horizontal Control, Computer Printout of Processed Field Data.			

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

RECORD OF SURVEY USE

TP-01167

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Final Reviewed Class III Map	Aug., 1985	Chart Maintenance Print	9-5-85	
Final Reviewed Class III Map	Aug., 1985	Notes to Hydrographer Print		9-5-85

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1 Pg.		9-5-85	NOAA Form 76-40(Fixed Aid reported)

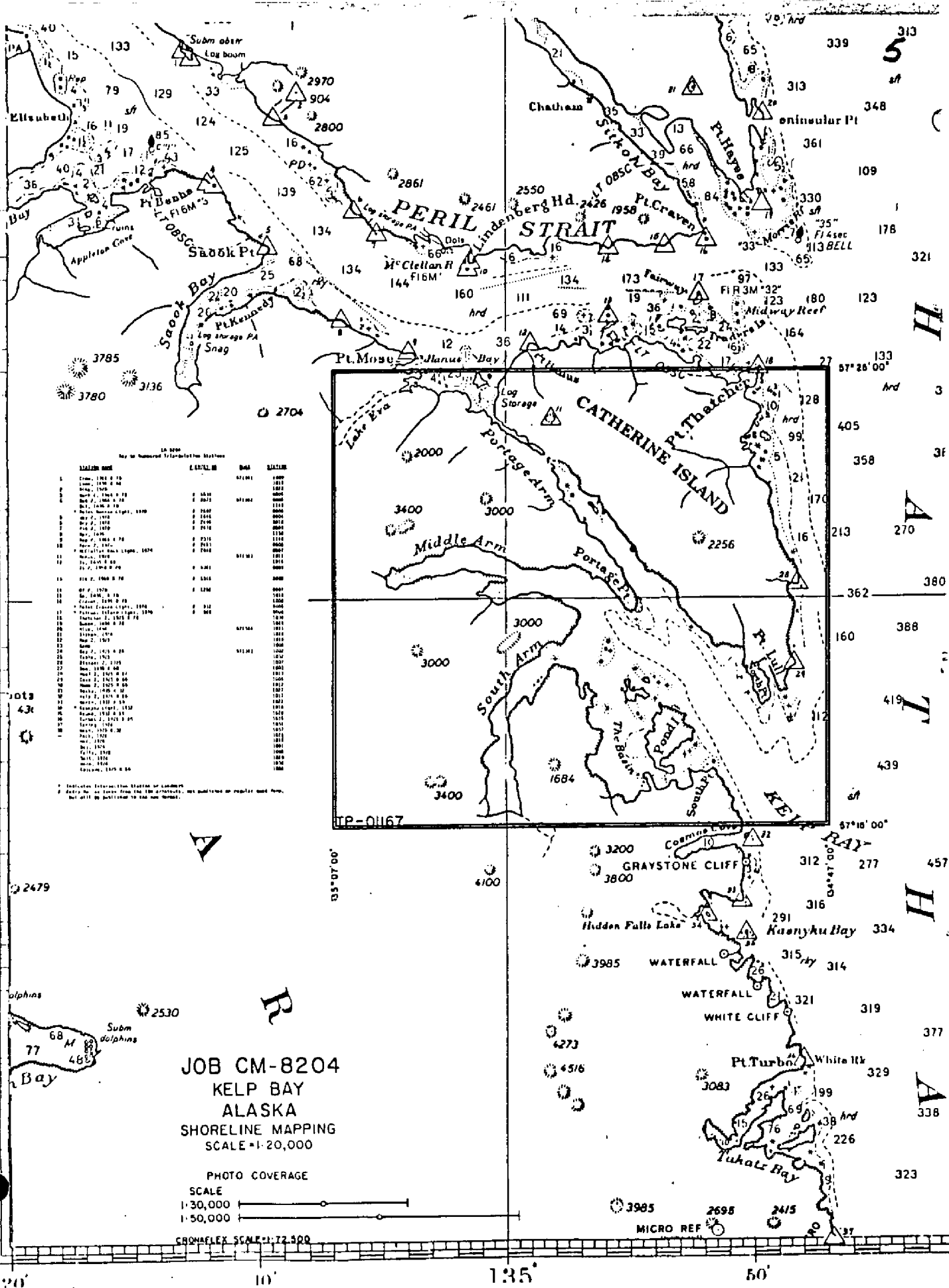
2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: None3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: None

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 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 REPORT

TP-01167

This 1:20,000-scale final Class III shoreline map comprises project CM-8204, Kelp Bay, Alaska. The map encompasses the eastern, southern, and western shoreline of Catherine Island and the shoreline of Baranof Island from South Point to Hanus Bay.

The purpose of this map is to provide contemporary shoreline data for maintenance of the nautical charting program.

Field operations consisted of aerial photography and the recovery, establishment, and identification (premarking) of horizontal control necessary for aerotriangulation. Five horizontal control stations were paneled for use in aerotriangulation. In addition, six hydrographic survey horizontal control stations were established and paneled. Field operations for project CM-8204 commenced on May 9 and concluded on May 20, 1983.

Natural color photographs at 1:50,000-scale were taken in July 1983 with the Wild RC-10(B) camera. Black-and-white infrared photographs were taken at 1:30,000-scale in July 1983 with the Wild RC-10(B) camera based on predictions for MHW and MLLW. The MHW infrared photographs were utilized only as an aid for interpreting MHW. Complete MLLW infrared photographic coverage was not obtained; coverage does not extend over the eastern shoreline area of Catherine Island and the southern portion of South Arm. Supplemental natural color photography at 1:30,000-scale was obtained to establish aerotriangulated positions of premarked ground stations required in support of hydrography. Date of this photography was June 1983.

Four strips of color photographs were bridged using analytical aerotriangulation methods; three strips at 1:50,000-scale required for map production and one strip at 1:30,000-scale required for control densification. Tie points between strips were established to augment the datum tie. Horizontal control stations used in the adjustment were premarked (paneled). Elevations from U.S. Geological Survey quadrangles were used as vertical control. The amount of aerotriangulated control proved adequate and meets National Standards of Map Accuracy.

Aerotriangulated positions were established for six premarked ground stations and will provide horizontal control for future hydrographic surveys. Positions were determined using the 1:30,000-scale color photographs.

Compilation was performed by the Coastal Mapping Unit, Photogrammetric Production Section, Rockville office. The map delineation was based on an office interpretation of the 1:50,000-scale natural color photographs utilizing the Wild B-8 stereoplotter. Graphic compilation of MLLW was accomplished with the use of the 1:30,000-scale black-and-white infrared photographs, prints of which were ratioed to the compilation scale for application. All line work was smooth drafted.

Final review was performed by the Coastal Mapping Unit, Rockville office. This map complies with the project instructions and meets the requirements for the National Standards of Map Accuracy.

The Descriptive Report contains all the information pertinent to the completion of this map.

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Shoreline Mapping Report
(Field Operations)
Job CM-8204
Kelp Bay, Alaska

Shoreline mapping operations in Kelp Bay (Job CM-8204) were undertaken concurrently with Special Project S-0902-DA-83. Four 1:50,000 scale aerotriangulation control panels were placed in the Kelp Bay area and a fifth panel was located in Peril Strait, north of Kelp Bay. In addition, six 1:30,000 scale hydrographic control panels were placed in The Basin area of Kelp Bay and in a narrow passage south of Pond Island. Field work for Job CM-8204 commenced on 09 May and concluded on 20 May 1983.

1:50,000 Aerotriangulation Control

Five 1:50,000 scale Aerotriangulation Control Panels were placed within the limits shown on the sketch included with the project instructions (attached). Two stations in Chatham Strait near the entrance to Kelp Bay were marked with a 2-ray variation of Array #1, as shown in Photogrammetric Instructions #22. KELP 2 1925 was paneled direct while a substitute station was paneled 1,100 meters south of station COVE 2 1925 on a small island. Horizontal control stations were established in Kelp Bay to support the requirements of Job CM-8204. A substitute station was set about 1,300 meters southeast of station GENE. The panel was placed near the shoreline and marked using Array #1. At station NARD, a substitute station was paneled 60 meters northwest of the station mark. The fifth 1:50,000 scale panel was placed on the south shore of Peril Strait, near Hanus Bay at station NAP 2 1960. The panel was subpointed 27 meters southwest of the station using Array #1. Recovery notes were submitted for stations KELP 2 1925, COVE 2 1925, and NAP 2 1960. Station descriptions were prepared for stations GENE and NARD and submitted with horizontal control data for S-0902-DA-83.

1:30,000 Hydrographic Control Panels

Six sites in Kelp Bay were found which met the criteria for hydrographic panels; namely, that 1) the point selected be adequate for controlling hydrography, and 2) sufficient room be available for placement of a panel and rays. Three panels were placed in a narrow passage leading into The Basin on the south side of Pond Island. Panels were set at the mouth of a small bay west of Crow Island, on the east side of The Basin on Pond Island, and in the southeast part of The Basin. A 3-ray variation of Array #2 was used in 5 of the 6 locations, owing to terrain constraints. The remaining site utilized the standard 4-ray version of Array #2.

The numbering system utilized for the hydrographic control panels

was a continuation of that used in Seymour Canal. Panel locations established in Kelp Bay included panels HP-23 through HP-28.

Respectfully submitted,



Mark P. Koehn, LT, NOAA
Horizontal Control Officer

Approved and forwarded,



James M. Wintermyre, CDR, NOAA
Commanding Officer
NOAA Ship DAVIDSON

PHOTOGRAMMETRIC PLOT REPORT

CM 8204

Kelp Bay, Alaska

October 1984

21. Area Covered

The area covered by this project is the eastern and southern shore of Catherine Island, Alaska, from Pt. Thatcher to Cosmos Cove. This area is covered by one 1:20,000 scale map (TP-01167).

22. Method

Three strips of 1:50,000 scale color photographs and one strip of 1:30,000 scale color photographs were bridged by Standard Analytic Aerotriangulation methods. Five horizontal control stations were pre-marked. Tie points were needed to supplement control for three of the strips.

One strip of 1:30,000 scale color photographs were measured to obtain positions of six hydrographic control stations.

Ratio values were determined for the three strips of 1:50,000 scale color bridging photographs, and three strips of 1:30,000 scale black-and-white infrared photographs.

The manuscript was plotted on the Calcomp 718 plotter using the Alaska State Plane Coordinate System Zone 1, and the oblique mercator projection.

23. Adequacy of Control

The control was adequate. This project meets the National Standards of Map Accuracy.

24. Supplemental Data

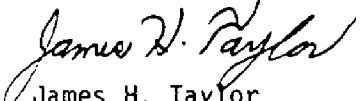
USGS quadrangles were used to provide vertical control for the strip adjustments. Nautical charts were used to locate landmarks or aids.

25. Photography

The coverage, quality, and overlap of the 1983 color bridging photographs were adequate for the project. Every other photograph was used because of the 80 percent overlap.

The coverage of the 1983 black-and- white MLLW infrared photographs is insufficient for this project. The coverage to the east and northwest of this project is incomplete.

Submitted by,


James H. Taylor

Approved and Forwarded:



Don O. Norman
Chief, Aerotriangulation Section

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F11 TO CONTROL

<u>STATION NAME</u>	<u>POINT #</u>	<u>VALUES IN FEET</u>	
<u>STRIP #1</u>	1:50,000		
KELP 2, 1925	317100	1.8	-2.2
TIE FROM #2	322803	0.0	3.1
TIE FROM #2	324803	-2.5	-1.5
GENE -(SUB POINT)	313101	-2.6	1.4
TIE FROM #2	325802	-1.6	1.6
NARD -(SUB POINT)	309101	0.0	0.0
TIE FROM #2	326801	2.9	-2.1
TIE FROM #2	327801	2.2	0.0
TIE FROM #2	328803	0.0	-1.0
NAP 2, 1960 -(SUB POINT)	333101	0.0	1.5
<u>STRIP #2</u>	1:50,000		
NAP 2, 1960 (SUB POINT)	333101	0.0	0.0
NARD (SUB POINT)	309101	0.0	0.0
GENE (SUB POINT)	313101	0.0	1.1
COVE 2, 1925 (SUB POINT)	293101	0.0	-1.2
KELP 2, 1925	317100	0.0	0.0
<u>STRIP #3</u>	1:50,000		
COVE 2, 1925 (SUB POINT)	293101	0.0	0.0
TIE FROM #2	293801	0.0	1.6
TIE FROM #2	293802	0.0	1.1

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TIE FROM #2	293803	0.0	0.0
TIE FROM #2	294801	0.0	2.4
TIE FROM #2	294802	1.2	-1.6
TIE FROM #2	294803	0.0	0.0
GENE (SUB POINT)	313101	0.0	0.0

STRIP #4

1:30,000

TIE FROM #2	812801	0.0	-1.2
TIE FROM #2	812803	0.0	1.0
TIE FROM #2	813801	0.0	1.9
TIE FROM #2	813803	0.0	0.0
TIE FROM #2	814801	0.0	0.0
TIE FROM #2	814802	0.0	0.0
TIE FROM #2	814803	0.0	0.0

RATIO VALUES

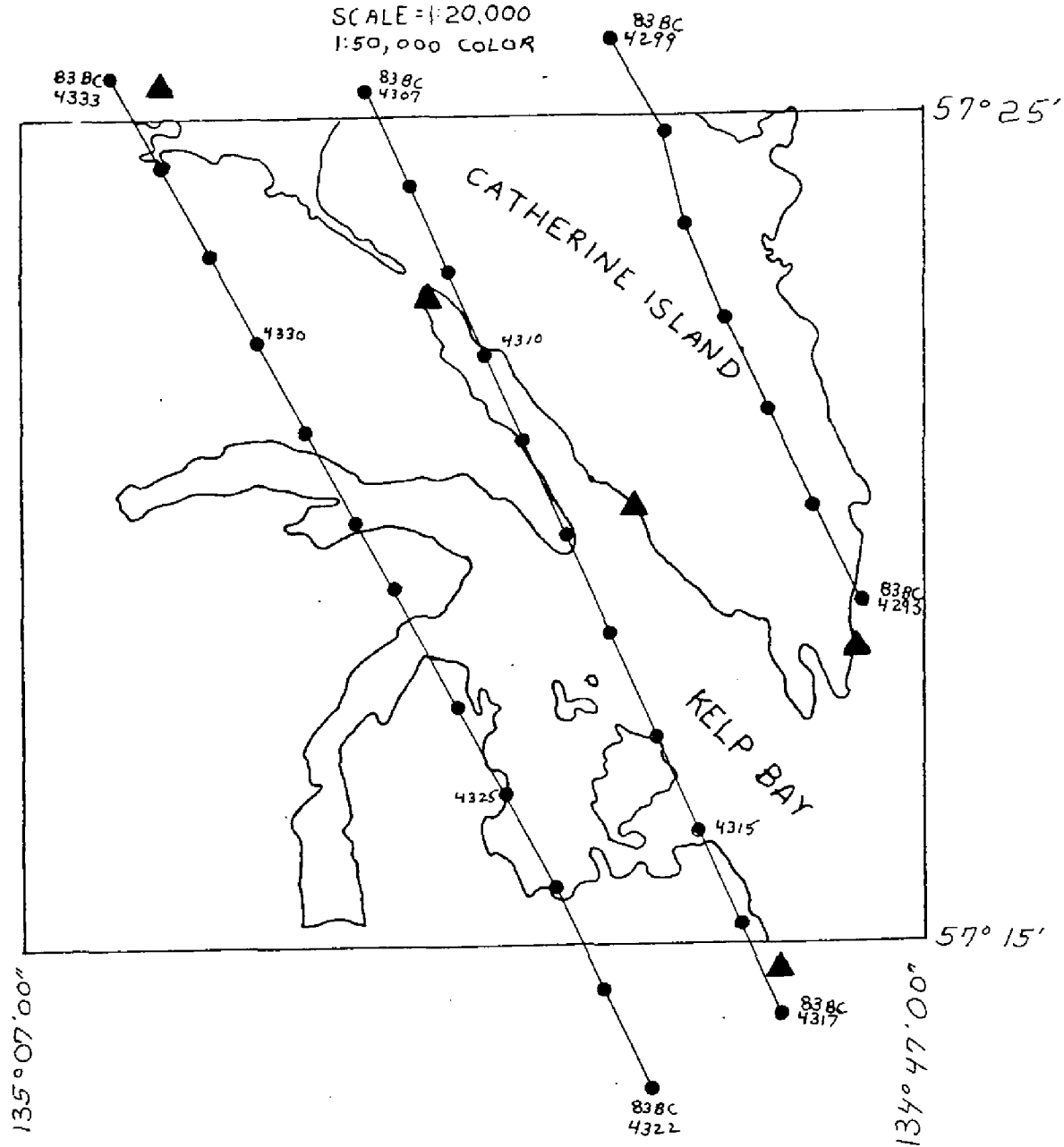
1:50,000 COLOR BRIDGING PHOTOGRAPHS

STRIP #1	RATIO VALUE
83-BC-4322, 4323, 4325, 4327, 4329, 4331, 4333.	2.570
STRIP #2	
83-BC-4306, 4307, 4309, 4311, 4313, 4315, 4317.	2.570
STRIP #3	
83-BC-4293, 4294, 4296, 4298.	2.565

1:30,000 BLACK-AND-WHITE INFRARED PHOTOGRAPHS-MLLW

83-BR-4800 thru 4802	1.550
83-BR-4804 thru 4810	1.530
83-BR-4812 thru 4821	1.530

JOB CM-8204
KELP BAY
ALASKA
SHORELINE MAPPING
SCALE=1:20,000
1:50,000 COLOR



JOB CM-8204

KELP BAY

ALASKA

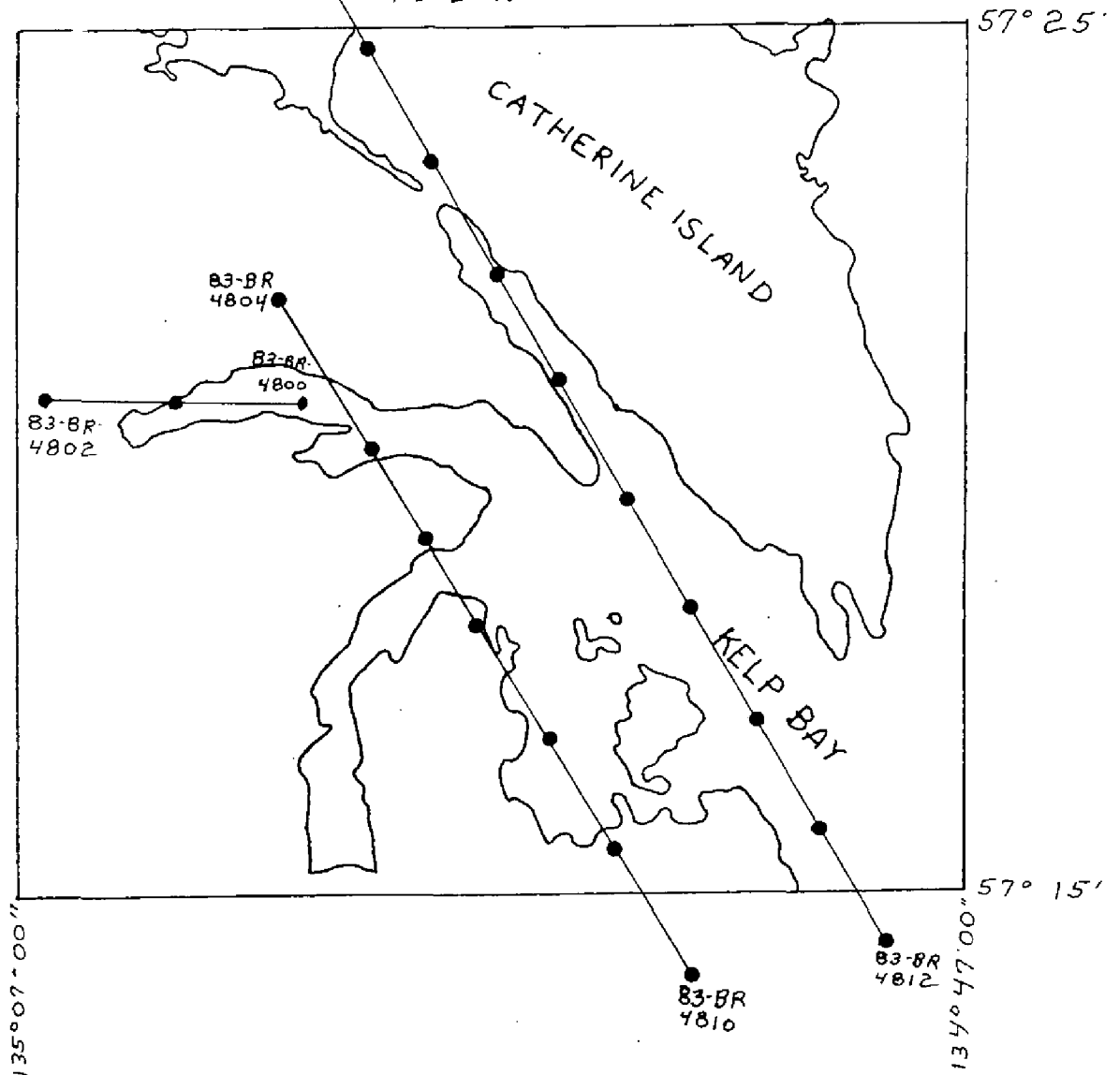
SHORELINE MAPPING

SCALE = 1:20,000

83BR
4821

1:30,000 B+W IR

MLLW



DESCRIPTIVE REPORT CONTROL RECORD

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

MAP NO.		JOB NO.		GEODETTIC DATUM		ORIGINATING ACTIVITY		REMARKS
TP-01167		CM-8204		N.A. 1927		Coastal Mapping Unit, PPS, Rockville, MD		
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE Alaska ZONE 1	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE				
COVE 2, 1925	List of GP 293100 Date 8/30/83	293100	x= 2460619.77 y= 2002190.33	φ 57-18-34.618 λ 134-48-17.453	All stations were recovered during NOS PMG operation S-0902-DA-83 (April-May, 1983)			
GENE	"	313100	x= 2440992.22 y= 2014479.29	φ 57-20-32.314 λ 134-54-18.844				
NARD	"	309100	x= 2430629.46 y= 2024955.84	φ 57-22-13.630 λ 134-57-31.287				
POINT LULL LIGHT 17	"	N/A	x= 2460613.46 y= 2002224.12	φ 57-18-34.950 λ 134-48-17.578				
			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			
LISTED BY		DATE	LISTING CHECKED BY		DATE			
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE			

COMPILATION REPORT

TP-01167

31. DELINEATION

Delineation was accomplished using the Wild B-8 stereoplotter and by graphic compilation methods. Delineation of the shoreline, alongshore, offshore, and the interior details were based on office interpretation of the 1:50,000 scale bridging/compilation color photographs. MHW infrared 1:30,000 scale contact prints were used as a supplemental aid for the interpretation of MHWL.

The MLLW infrared photographs at 1:30,000 scale were enlarged to the map scale of 1:20,000 to graphically compile the low water features. The MLLW infrared photographic coverage was incomplete. There was no coverage of the eastern shoreline of Catherine Island north of Point Lull ($57^{\circ}18'N$) and the entire southern portion of South Arm (south of $57^{\circ}17'30"N$). The ledge symbol delineated along the eastern shoreline of Catherine Island is based on an office interpretation of the 1:50,000 scale compilation color photographs.

32. CONTROL

Horizontal control was provided by the Aerotriangulation Unit and was adequate in controlling the stereomodels. Refer to the Photogrammetric Plot Report dated October 1984.

33. SUPPLEMENTAL DATA - None34. CONTOURS AND DRAINAGE

The compilation of contours was not a requirement of this project. Drainage was compiled based on an office interpretation of the color bridging/compilation photographs.

35. SHORELINE AND ALONGSHORE DETAIL

The MHWL and alongshore detail were compiled based on an office interpretation of the 1:50,000 scale bridging/compilation color photographs as described in item 31. Some segments of the shoreline, especially the southern shoreline of both Middle Arm and that of South Arm, were difficult to compile due to tree overhang.

36. OFFSHORE DETAILS

Offshore detail consisted of rocks awash, submerged rocks, kelp, platform, log boom. Offshore detail was compiled through photogrammetric instrument compilation methods.

37. LANDMARKS AND AIDS

There are no designated landmarks within the limits of this map. The one fixed aid to navigation within the limits of this map could not be photogrammetrically identified, but was recovered during field operations.

38. CONTROL FOR FUTURE SURVEYS - None

39. JUNCTIONS - Not Applicable

40. HORIZONTAL AND VERTICAL ACCURACY

This map meets the National Standards of Map Accuracy. Refer to the Photogrammetric Plot Report dated October 1984.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with the following 1:63,360 scale U.S. Geological Survey quadrangles:

SITKA (B-3), ALASKA, 1951, minor revision 1962
SITKA (B-4), ALASKA, 1951, minor revision 1964

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Service Charts:

17320, Scale 1:217,828, 11th Edition, dated October 1, 1983
17337, scale 1:40,000, 7th Edition, dated February 26, 1977
17338, scale 1:40,000, 11th Edition, dated September 26, 1981

Submitted by,

Douglas Graham
Doug Graham
Cartographer

Approved and Forwarded:

Robert Rodkey, Jr.
Robert Rodkey, Jr.
Chief, Coastal Mapping Unit

REVIEW REPORT

TP-01164

61. General Statement

Refer to the Summary bound with this Descriptive Report.

62. Comparison with Registered Topographic Surveys - None63. Comparison with Maps of Other Agencies

A comparison was made with the following 1:63,360 scale U.S. Geological Survey quadrangles:

Sitka (B-3), Alaska, 1951, Minor revision 1962

Sitka (B-4), Alaska, 1951, Minor revision 1964

64. Comparison with Contemporary Hydrographic Surveys - None65. Comparison with Nautical Charts

A comparison was made with the following NOAA Nautical Charts:

17320, Scale 1:217,828, 11th Edition, dated October 1, 1983

17337, Scale 1:40,000, 7th Edition, dated February 26, 1977

17338, Scale 1:40,000, 11th Edition, dated September 26, 1981

66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy and requirements specified in the Project Instructions.

Submitted by,



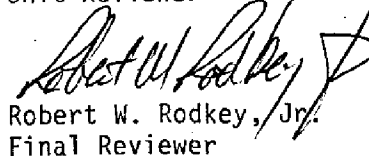
Edward D. Allen
Unit Reviewer

Approved and Forwarded,

Chief, Photogrammetric Production
Section



Ronald K. Brewer
Chief, Photogrammetry Branch



Robert W. Rodkey, Jr.
Final Reviewer

JAN 17 1965
21

GEOGRAPHIC NAMES

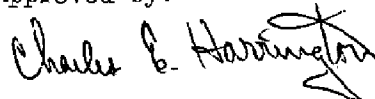
FINAL NAME SHEET

CM-8204 (Kelp Bay, Alaska)

TP-01167

Baranof Island	Portage Point
Catherine Island	South Arm
Chatham Strait	South Point
Clear River	The Basin
Crow Island	Yellow Rock
Dead Tree Island	Zubof Rock
Echo Cove	
Glacial River	
Hanus Bay	
Kelp Bay	
Middle Arm	
North Point	
Peril Strait	
Plover Rock	
Point Lull	
Point Thatcher	
Pond Island	
Portage Arm	

Approved by:



Charles E. Harrington
Nautical Charting Division

DISSEMINATION OF PROJECT MATERIAL

CM-8204

KELP BAY, ALASKA

NATIONAL ARCHIVES/FEDERAL RECORDS CENTER

Brown Jacket:

Project Diagram
 Duplicate Photogrammetric Plot Report
 Duplicate NOAA Form 76-41, Descriptive Report Control
 Record (1 page)
 Duplicate NOAA Form 76-40, Nonfloating Aids or Landmarks
 for Charts (1 page)
 NOAA Form 76-53(formally C&GS 152), Control Station Identific-
 ation (11 Forms: 5 for photogrammetric horizontal control
 stations, 6 for hydrographic horizontal control stations)
 Computer Listings: Hydrographic control stations positions(1 page)
 and Photogrammetric plotted points(1 page)
 Horizontal Control Sketch for project S-0902 DA-83 bound with
 horizontal station recovery reports(17 pages)
 Bridging photographs(4 envelopes: 3 of 1:50,000 scale bridging
 photographs, 1 of 1:30,000 bridging photographs)
 Target Identification Photographs(1 envelope)

Project Completion Report

BUREAU ARCHIVES

Registration Copy of Map
 Descriptive Report of Map

REPRODUCTION BRANCH

8X Reduction Negative of Map

OFFICE OF STAFF GEOGRAPHER

Geographic Names Standards

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	<div>ORIGINATOR</div> <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	<div>OFFICE ACTIVITY REPRESENTATIVE</div> <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.)	

FIELD (Cont'd)	
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	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 II. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Visually 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	III. TRIANGULATION STATION RECOVERED When a benchmark 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.

