

TP-00737

TP-00737

NOAA FORM 76-35  
(6-80)

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

# DESCRIPTIVE REPORT

<i>Map No.</i> TP-00737	<i>Edition No.</i> 1
<i>Job No.</i> CM-7406	
<i>Map Classification</i> FINAL CLASS III	
<i>Type of Survey</i> SHORELINE	
<b>LOCALITY</b>	
<i>State</i> OREGON	
<i>General Locality</i> CAPE ARAGO	
<i>Locality</i> SUNSET BAY TO NORTH BEACH	
<div style="border: 1px solid black; padding: 5px; display: inline-block;">19 74 TO 19</div>	
<b>REGISTERED IN ARCHIVES</b>	
<b>DATE</b>	

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY

- ORIGINAL
- RESURVEY
- REVISED

SURVEY TP. 00737

MAP EDITION NO. (1)

MAP CLASS III Final

JOB PH. CM-7406

PHOTOGRAMMETRIC OFFICE  
Photogrammetric Sec., PMC  
Seattle, Washington

OFFICER-IN-CHARGE

David W. Yeager

LAST PRECEDING 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 January 22, 1975  
Office February 3, 1975  
Office, Amendment I July 29, 1975

Field February 21, 1974

II. DATUMS

1. HORIZONTAL:

1927 NORTH AMERICAN

OTHER (Specify)

2. VERTICAL:

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

OTHER (Specify)

3. MAP PROJECTION

Lambert Conformal Conic

4. GRID(S)

STATE

ZONE

Oregon

South

5. SCALE  
1:10,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY <u>M. McGinley</u>		Jan 1975
METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY <u>J. Perrow, Jr.</u>		Jan 1975
2. CONTROL AND BRIDGE POINTS PLOTTED BY <u>M. McGinley</u>		Nov 1980
METHOD: <u>Coradomat</u> CHECKED BY <u>R. Fisher</u>		Nov 1980
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY <u>D. Holeski</u>		Dec 1983
COMPILATION CHECKED BY <u>J. Minton</u>		Dec 1983
INSTRUMENT: <u>Wild B+8</u> CONTOURS BY <u>N.A.</u>		
SCALE: <u>1:10,000</u> CHECKED BY <u>N.A.</u>		
4. MANUSCRIPT DELINEATION PLANIMETRY BY <u>D. Holeski</u>		Feb 1984
CHECKED BY <u>J. Minton</u>		Feb 1984
METHOD: <u>Smooth drafted and</u> CONTOURS BY <u>N.A.</u>		
<u>Graphic MLLW Line</u> CHECKED BY <u>N.A.</u>		
SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY <u>None</u>		
CHECKED BY <u>None</u>		
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY <u>None</u>		
6. APPLICATION OF FIELD EDIT DATA BY <u>None</u>		
CHECKED BY <u>None</u>		
7. COMPILATION SECTION REVIEW <u>Class III</u> BY <u>J. Minton</u>		Sept 1984
8. FINAL REVIEW <u>Class III</u> BY <u>L. O. Neterer, Jr.</u>		Jun 1985
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY <u>L. O. Neterer, Jr.</u>		JUN 1985
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY <u>P. Dempsey</u>		NOV. 1985
11. MAP REGISTERED - COASTAL SURVEY SECTION BY <u>E. L. DAUGHERTY</u>		DEC 1985

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC8 "E" (152.71mm F.L.) Wild RC10 "C" (88.47mm F.L.)		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR	(P) PANCHROMATIC	(I) INFRARED	
<input type="checkbox"/> PREDICTED TIDES					
<input checked="" type="checkbox"/> REFERENCE STATION RECORDS "C"					
<input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY "E"					
		ZONE		Pacific	
		MERIDIAN		120 West	
				<input checked="" type="checkbox"/> STANDARD	
				<input type="checkbox"/> DAYLIGHT	

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
74C(C)9885 and 9886	05/27/74	12:07	1:60,000	0.46 above MLLW
74C(C)9900 thru 9902	05/27/74	12:49	1:30,000	1.44 above MLLW
74C(C)9895 thru 9897	05/27/74	12:35	1:30,000	1.12 above MLLW
74E(I)5045 thru 5049	05/27/74	16:22	1:30,000	0.25 below MHW
74E(I)5052 thru 5054	05/27/74	16:29	1:30,000	0.21 below MHW
74E(I)5031 and 5032	05/27/74	11:32	1:30,000	0.07 below MLLW
74E(I)5036 thru 5039	05/27/74	11:41	1:30,000	0.05 above MLLW

REMARKS The above listed infrared photographs were tide controlled from the standard guage in place near the Cape Arago Light. The station records were used to calculate the tide stage for the color photographs.

2. SOURCE OF MEAN HIGH-WATER LINE:  
 The Mean High Water Line was compiled from photographs 74C(C) 9896 and 9897 and 74C(C)9900 thru 9902 using a Wild B-8 stereoplotter. These photographs were controlled with bridge points transferred from 1:60,000 scale photographs 74C(C)9885 and 9886. Infrared photographs 74E(I)5045 thru 5049 and 74E(I)5052 thru 5054 were enlarged to approximately 1:10,000 scale for use as interpretive aids.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:  
 The Mean Lower Low Water Line and the ledge detail were compiled graphically from prints of 74E(I)5031 and 5032, and 74E(I)5036 thru 5039 which had been enlarged to approximately 1:10,000 scale. These photographs were controlled with pass points that were identified and positioned during the instrument compilation of the Mean High Water Line.

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
No contemporary survey	No contemporary survey	TP-00738	No contemporary survey

REMARKS

TP-00737

**HISTORY OF FIELD OPERATIONS**

I.  FIELD INSPECTION OPERATION (Premarking)  FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	May 1974
2. HORIZONTAL CONTROL	RECOVERED BY	L. Riggers
	ESTABLISHED BY	None
	PRE-MARKED OR IDENTIFIED BY	None
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 ( <i>Triangulation Stations</i> ) BY	None
	LOCATED ( <i>Field Methods</i> ) BY	None
	IDENTIFIED BY	None
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
Paneled		N.A.	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
74(C)9896	ARAGO HEAD (USGS 1942), 1945		

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  NONE

6. 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*)  
Field Report, Tide Gauge Records, Control Station Identification Cards

TP-00737  
**RECORD OF SURVEY USE**

I. MANUSCRIPT COPIES				
COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	Oct. 1984	Class III Manuscript		
Final Review	June 1985	Final Class III Map	Oct. 30, 1985	

**II. LANDMARKS AND AIDS TO NAVIGATION**

**1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH**

NUMBER (pages)	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
3		Oct. 30, 1985	Landmarks and Aids to be Charted

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

**III. FEDERAL RECORDS CENTER DATA**

1.  BRIDGING PHOTOGRAPHS;  DUPLICATE BRIDGING REPORT;  COMPUTER READOUTS.
2.  CONTROL STATION IDENTIFICATION CARDS;  FORM 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:  
*Field report lost*
4.  DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: \_\_\_\_\_

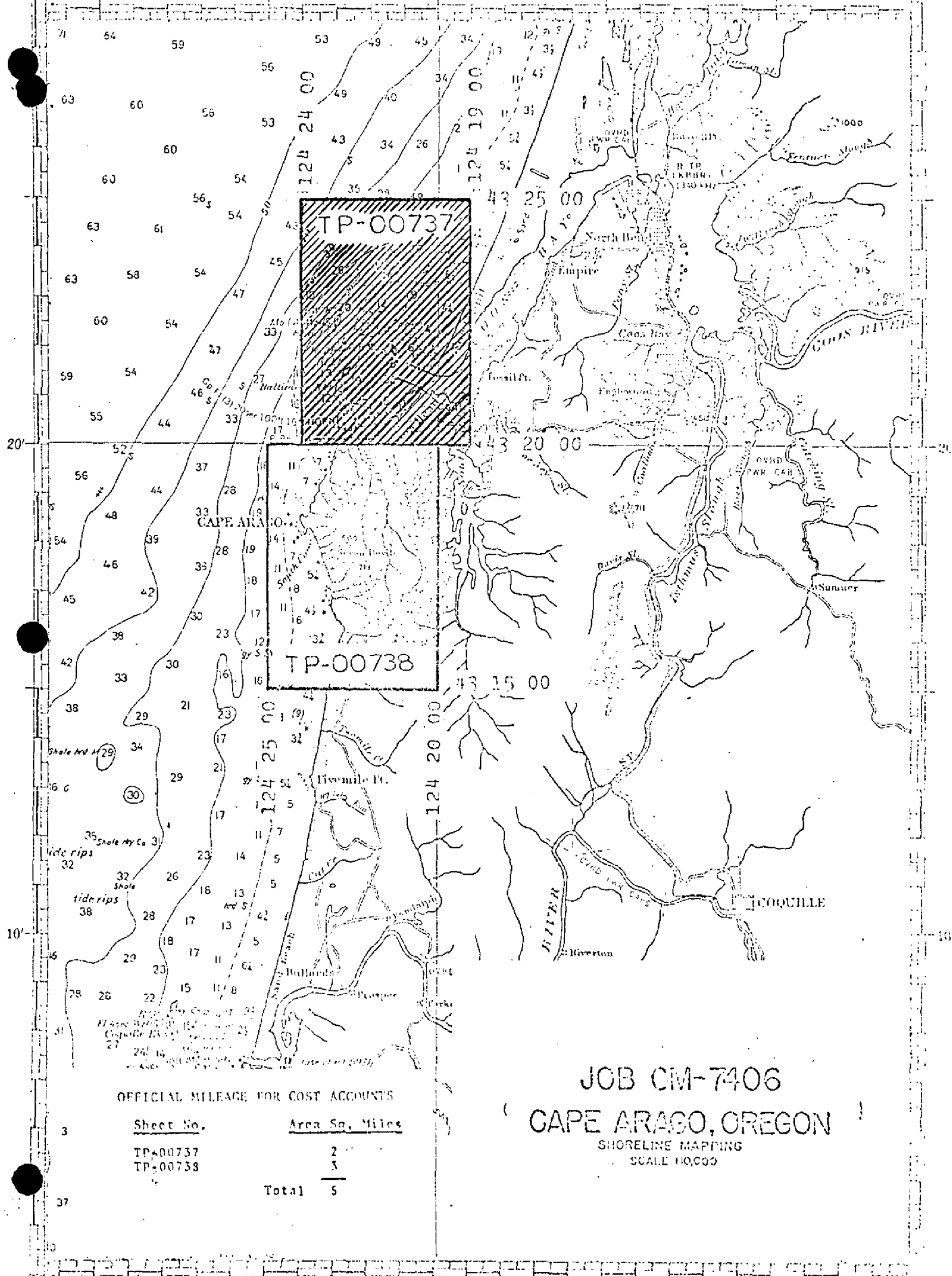
**IV. SURVEY EDITIONS** (This section shall be completed each time a new map edition is registered)

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	

## FIELD INSPECTION

TP-00737

Field inspection was limited to the recovery and identification of control for bridging purposes.



OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Area Sq. Miles
TPA00737	2
TP-00738	3
<b>Total</b>	<b>5</b>

JOB CM-7406  
**CAPE ARAGO, OREGON**  
 SHORELINE MAPPING  
 SCALE 10,000

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-00737

This 1:10,000 scale shoreline map is one of two maps that comprise CM-7406, Cape Arago, Oregon.

This project encompasses Cape Arago, Oregon latitude 43°15'00" north including the entrance to Coos Bay, Oregon to latitude 43°25'00".

Photographic coverage was provided in May 1974 using the "C" camera (focal length 88.47 millimeters) with color film at 1:60,000 scale for bridging and 1:30,000 scale for compilation, also with the "E" camera (focal length 152.71 millimeters) for tide coordinated infrared black-and-white photography, both Mean High and Mean Lower Low Water at 1:30,000 scale.

Field work prior to compilation consisted of the premarking of horizontal control. It was accomplished in May 1974 to meet the requirements for aerotriangulation.

Analytic aerotriangulation was performed at the Washington Science Center in January 1975.

Some horizontal control data was submitted from a 1977 Pacific Marine Center field party doing field work in the vicinity of this project.

Standard compilation was accomplished at the Pacific Marine Center in September 1984.

Final Review was performed at the Atlantic Marine Center in June 1985.

This Descriptive Report contains all available data used to compile this Map.

The original base map and all pertinent data were forwarded to the Washington Science Center for final registration.



## PHOTOGRAMMETRIC PLOT REPORT

Job CM-7406  
Cape Arago, Oregon  
January 1975

21. Area Covered

This project covers the shoreline from west of Coos Bay to Arate Beach. Included are two T-sheets (TP-00737 and TP-00738). Both sheets are 1:10,000 scale.

22. Method

One strip of color photography was bridged on the Wild STK-1 in order to obtain compilation and pass-point positions on two strips of 1:30,000 photography. Exact scale ratios of MHW and MLLW were determined to provide material for shoreline compilation.

The bridging strip (1:60,000) was adjusted on four field-identified triangulation stations with three additional triangulation stations as checks. The adjustment was performed on the IBM 6600. Both sheets were ruled and plotted on the Coradomat.

1:10,000-scale ratios were ordered.

Eleven points were positioned for use during the compilation of the North Bend Municipal Airport, North Bend, Oregon.

23. Adequacy of Control

The horizontal control utilized in the adjustment held within National Map Accuracy.

24. Supplemental Data

Vertical control for bridging only was obtained from local USGS quads.

25. Photography

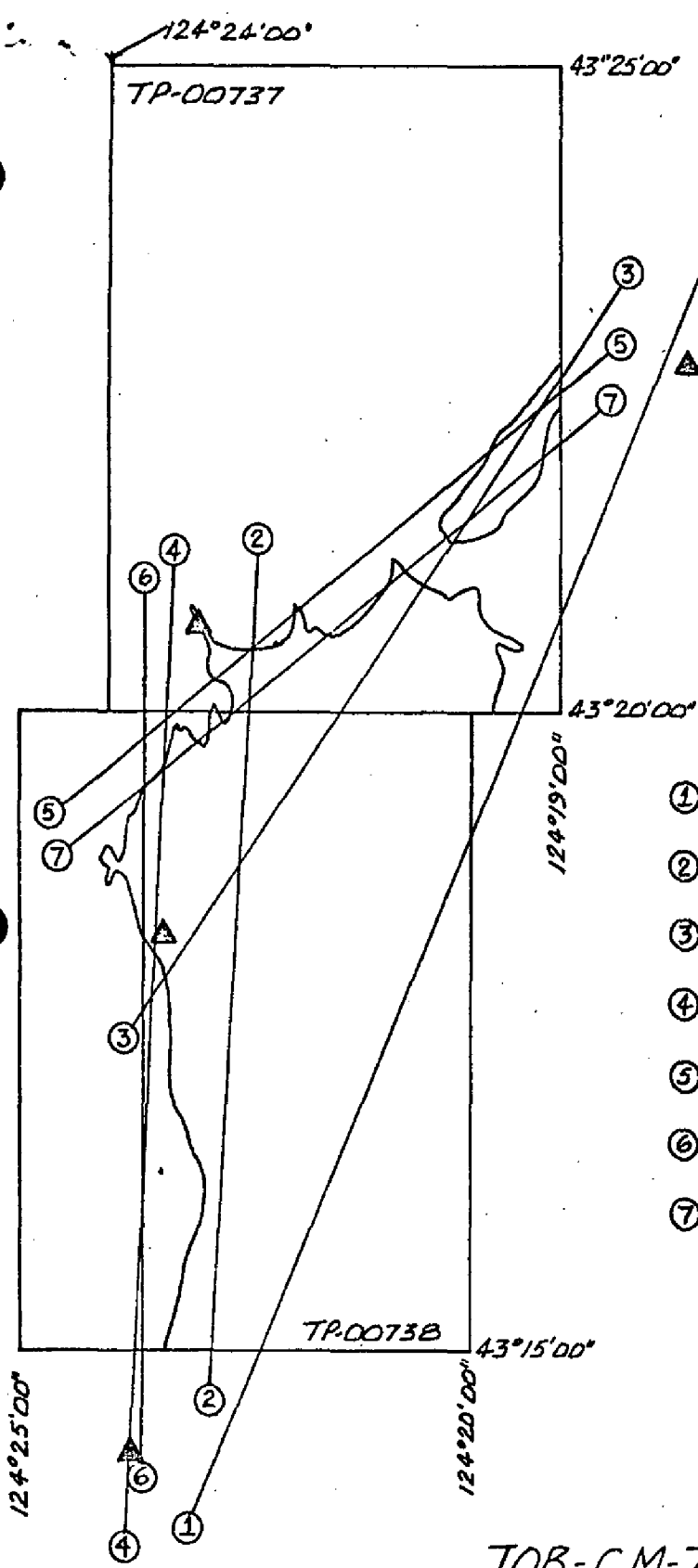
The bridging photography was adequate as to overlap, definition, and coverage.

Submitted by:

*Michael L. McGinley*  
Michael L. McGinley

Approved by:

*John D. Perrow, Jr.*  
John D. Perrow, Jr.  
Chief, Aerotriangulation Section



- ① 1:60000 Scale Bridging 74C(2)9883-9889
- ② 1:30000 Compilation 74C(2)9892-9897
- ③ " " " 9899-9904
- ④ " MHW 74E 5052R-5058R
- ⑤ " " " 5045R-5049R
- ⑥ " MLLW " 5027R-5032R
- ⑦ " " " 5035R-5039R

JOB-CM-7406  
 CAPE ARAGO, OREGON  
 1:10,000 SCALE  
 1-75

## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	GEOIDETIC DATUM		AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		ORIGINATING ACTIVITY	REMARKS
			TP-00737	CM-7406		STATE	ZONE	X=	Y=		
			North American 1927							Photogrammetric Sect., P.M.C.	
	Arago Head (USGS 1942), 1945	G.P. Vol. II Pg. 844	X=	Y=				$\phi$ 43 20' 37.569"	$\lambda$ 124 22' 31.815"		
	Cape Arago Lighthouse, 1942	G.P. Vol. II Pg. 838	X=	Y=				$\phi$ 43 20' 28.987"	$\lambda$ 124 22' 26.826"		
	Coos Bay Entrance Range Front Light, 1977 (Field Pos.)	Field 76-45	X=	Y=				$\phi$ 43 20' 59.162"	$\lambda$ 124 19' 27.319"		
	Coos Bay North Jetty Light 3A, 1977 (Field Pos.)	Field 76-45	X=	Y=				$\phi$ 43 21' 31.688"	$\lambda$ 124 20' 38.177"		
	Coos Bay Inside Range Front Light, 1977 (Field Pos.)	Field 76-45	X=	Y=				$\phi$ 43 20' 59.173"	$\lambda$ 124 19' 27.241"		
	Coos Bay Inside Range Rear Light, 1977 (Field Pos.)	Field 76-45	X=	Y=				$\phi$ 43 20' 54.028"	$\lambda$ 124 19' 30.269"		
	Coos Bay Range A Front Light, 1977 (Field Pos.)	Field 76-45	X=	Y=				$\phi$ 43 21' 40.603"	$\lambda$ 124 19' 09.636"		
	Coos Bay Range A Rear Light, 1977 (Field Pos.)	Field 76-45	X=	Y=				$\phi$ 43 21' 33.652"	$\lambda$ 124 19' 18.755"		
	South Slough Channel Daybeacon 1, 1977 (Field Pos.)	Field 76-45	X=	Y=				$\phi$ 43 21' 18.653"	$\lambda$ 124 19' 02.599"		
	South Slough Channel Light 2, 1977 (Field Pos.)	Field 76-45	X=	Y=				$\phi$ 43 21' 11.001"	$\lambda$ 124 19' 03.200"		
COMPUTED BY	D. C. Holeski		DATE	09/84	COMPUTATION CHECKED BY	J. R. Minton	DATE	09/84			
LISTED BY	D. C. Holeski		DATE	09/84	LISTING CHECKED BY	J. R. Minton	DATE	09/84			
HAND PLOTTING BY	D. C. Holeski		DATE	09/84	HAND PLOTTING CHECKED BY	J. R. Minton	DATE	09/84			

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-00737	JOB NO. CM-7406	GEODEIC DATUM North American 1927		ORIGINATING ACTIVITY Photogrammetric Sect., P.M.C.		
		STATE	ZONE	$\phi$ LATITUDE	$\lambda$ LONGITUDE	
STATION NAME	SOURCE OF INFORMATION (Index)	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS
South Slough Channel Light 5, 1977 (Field Pos.)	Field 76-45	X=	43	20'	48.040"	
		Y=		124	19'	04.545"
South Slough Channel Daybeacon 6, 1977 (Field Pos.)	Field 76-45	X=	43	20'	40.08"	
		Y=		124	19'	10.08"
South Slough Channel Daybeacon 7, 1977 (Field Pos.)	Field 76-45	X=	43	20'	32.865"	
		Y=		124	19'	07.242"
		X=				
		Y=				
		X=				
		Y=				
		X=				
		Y=				
		X=				
		Y=				
		X=				
		Y=				
COMPUTED BY	D. C. Holeski	COMPUTATION CHECKED BY		J. R. Minton		DATE 09/84
LISTED BY	D. C. Holeski	LISTING CHECKED BY		J. R. Minton		DATE 09/84
HAND PLOTTING BY	D. C. Holeski	HAND PLOTTING CHECKED BY		J. R. Minton		DATE 09/84

COMPILATION REPORT  
TP-00737

31. Delineation

Delineation was accomplished from the photographs itemized in part 1 of the preceding form 76-36B. Parts 2 and 3 of the same form explain the compilation method. Photographs 74E(I)5047 and 74E(I)5048 have significant section of the shoreline blocked out by clouds; otherwise photo coverage and quality are adequate.

32. Control

As discussed in the photogrammetric plot report, dated January 1975, control is adequate.

33. Supplemental Data - None.

34. Contours and Drainage

Contours are not required on this project. Drainage was delineated on the stereo plotter.

35. Shoreline and Alongshore Details

The preceding form, 76-36B, parts 2 and 3, explain the compilation method employed to detail the shoreline, MLLW line and most of the alongshore detail. Additional detail was compiled by office stereo interpretation of the enlarged infrared photographs. Furthermore, the enlarged infrared photos were used to select symbols--bare, awash, or submerged--for all rocks. Reefs and ledges are shown with standard symbolization.

36. Offshore Details

Offshore detail was compiled in the same manner as shoreline detail noted in item 35 above, with the exception of aids to navigation. Offshore aids to navigation in Coos Bay and South Slough were positioned from a listing of Field Geographic Positions that was generated in May 1977 by a PMC Field Party.

37. Landmarks and Aids to Navigation

Forms 76-40 were prepared based on field generated 76-40 forms and the Field Geographic Positions list referenced in item 37 above. Appropriate copies of 76-40 forms are included with this Descriptive Report.

38. Control for Future Surveys - None.

39. Junctions

Refer to attached Form 76-36B of the Descriptive Report.

40. Horizontal and Vertical Accuracy

Refer to the preceding Photogrammetric Plot Report, dated January 1975.

46. Comparison with Existing Maps

A comparison was made with the following U.S. Geological Survey quadrangles:

Cape Arago, Oreg., 1970, 1:24,000 scale

Charleston, Oreg., 1970 1:24,000 scale

47. Comparison with Nautical Charts

A comparison was made with the following National Ocean Survey charts:

18580 (formerly 5802), Cape Blanco to Yaquina Head, 10th edition dated May 26, 1973 and 14th edition dated August 30, 1980, both 1:191,730 scale.

18587 (formerly 5984), Coos Bay, 50th edition, dated March 30, 1984, and 60th edition dated March 10, 1984, both 1:20,000 scale.

Items to be Applied to Nautical Charts Immediately: None

Submitted by,

*Daniel C. Holeski*

Daniel C. Holeski

February 14, 1984

Approved:

*James R. Minton*

James R. Minton

Acting Chief, Photogrammetric Section

February 19, 1984

## GEOGRAPHIC NAMES

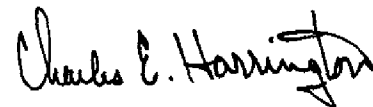
## FINAL NAME SHEET

CM-7406 (Cape Arago, Oregon)

TP-00737

Bastendorff Beach  
Charleston  
Coos Bay  
Coos Head  
Gregory Point  
Hungryman Cove  
Lighthouse Beach  
Mussel Reef  
North Beach  
North Spit  
Pacific Ocean  
South Slough  
Sunset Bay  
Yoakam Point

Approved by:



Charles E. Harrington  
Chief Geographer  
Nautical Charting Division

REVIEW REPORT  
SHORELINE

TP-00737

61 - GENERAL STATEMENT

See Summary included with this Descriptive Report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the U.S.G.S. Quadrangles: Cape Arago, Oregon, Charleston, Oregon, and Empire, Oregon. All three are 1:24,000 scale and dated 1970.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There is no contemporary Hydrographic Survey within the limits of this map.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Charts: 18487, dated March 10, 1984, 60th edition, 1:20,000 scale and 18580, dated August 30, 1980, 14th edition, scale 1:191,730. Position of nautical aids differ from charted position because they are 1974 photo and 1977 field positions.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.



TP-00737

Submitted by



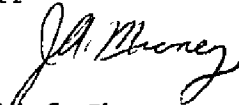
Lowell O. Neterer, Jr.  
Final Reviewer  
June 19, 1985.

Approved for forwarding

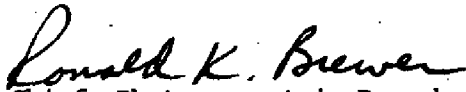


Billy H. Barnes  
Chief, Photogrammetric Section

Approved



Chief, Photogrammetric Operations,  
Rockville



Chief, Photogrammetric Branch,  
Rockville



TYPE OF ACTION	RESPONSIBLE PERSONNEL	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	R. B. Melby	<input checked="" 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	D. C. Holeski	<input type="checkbox"/> FIELD ACTIVITY REPRESENTATIVE <input type="checkbox"/> OFFICE 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
<b>INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'</b> <i>(Consult Photogrammetric Instructions No. 64.)</i>		
<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 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 P - Photogrammetric Vis - Visually 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	
**FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.		

NOAA FORM 76-40  
(6-74)

Replaces C&GS Form 567.

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

**NONFLOATING AIDS** FOR CHARTS

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)*

REPORTING UNIT  
(Field Party, Ship or Office)  
 Photogrammetric Sect.  
 P.M.C., Seattle, Wa.

STATE  
 Oregon

LOCALITY  
 Coos Bay

DATE  
 08/27/84

OPR PROJECT NO. [ ] JOB NUMBER CM-7406 SURVEY NUMBER TP-07737 DATUM North American 1927

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	CHARTS AFFECTED
		° / ' "	D.M. Meters	° / ' "	D.P. Meters			
LIGHT	Cape Arago Light (Cape Arago Lighthouse, 1942)	43 20	28.987	124 22	26.826		Triang. Rec. 05/77	18580 18587
LIGHT	(Coos Bay Entrance Range Front Light, 1977 (Field Position))	43 20	894.6	124 19	604.3		F-3-6-L 05/77	18587
LIGHT	(Coos Bay North Jetty Light 3A, 1977 (Field Position))	43 21	1825.8	124 20	615.3		F-3-6-L 05/77	18580 18587
LIGHT	(Coos Bay Inside Range Front Light, 1977 (Field Position))	43 20	977.9	124 19	859.7		F-3-6-L 05/77	18587
LIGHT	(Coos Bay Inside Range Rear Light, 1977 (Field Position))	43 20	59.173	124 19	27.241		F-3-6-L 05/77	18587
LIGHT	(Coos Bay Range A Front Light, 1977 (Field Position))	43 21	1826.1	124 19	613.5		F-3-6-L 05/77	18587
LIGHT	(Coos Bay Range A Rear Light, 1977 (Field Position))	43 21	54.028	124 19	30.269		F-3-6-L 05/77	18587
LIGHT	(Coos Bay Range A Front Light, 1977 (Field Position))	43 21	1667.3	124 19	681.7		F-3-6-L 05/77	18587
LIGHT	(Coos Bay Range A Rear Light, 1977 (Field Position))	43 21	40.603	124 19	09.636		F-3-6-L 05/77	18587
DAYBEACON	(South Slough Channel Daybeacon 1, 1977 (Field Position))	43 21	1253.0	124 19	217.0		F-3-6-L 05/77	18587
LIGHT	(South Slough Channel Light 2, 1977 (Field Position))	43 21	33.652	124 19	18.755		F-3-6-L 05/77	18587
LIGHT	South Slough Channel Light 4	43 20	1038.5	124 19	422.3		F-3-6-L 05/77	18587
			18.653	124 19	02.599			
			575.6	124 19	58.5			
			11.001	124 19	03.200			
			339.5	124 19	72.1			
			52.43	124 19	08.57			
			1.8	124 19	193			

RESPONSIBLE PERSONNEL		ORIGINATOR
TYPE OF ACTION	R. B. Melby	<input checked="" type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
OBJECTS INSPECTED FROM SEAWARD	R. B. Melby	FIELD ACTIVITY REPRESENTATIVE
POSITIONS DETERMINED AND/OR VERIFIED	D. G. Holeski	OFFICE 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.)		
OFFICE	FIELD (Cont'd)	
1. 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	11. 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	
1. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection	III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75	
A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.		

NOAA FORM 76-40  
(8-74)

Replaces C&GS Form 567.

**NONFLOATING AIDS TO NAVIGATION FOR CHARTS**

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

TO BE CHARTED  
 TO BE REVISED  
 TO BE DELETED

REPORTING UNIT  
(Field Party, Ship or Office)  
Photogrammetric Sect.  
P.M.C., Seattle, Wa.

STATE  
Oregon

LOCALITY  
Coos Bay

DATE  
08/27/84

HAVE NOT  
 HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.

OPR PROJECT NO. CM-7406 SURVEY NUMBER TP-0737 DATUM North American 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)	LATITUDE		LONGITUDE		FIELD	CHARTS AFFECTED
		D.M. Meters	° / ' "	D.M. Meters	° / ' "		
LIGHT	(South Slough Channel Light 5, 1977 (Field Position))	43 20	48.44	24 19	142.5	F-2-6-L 05/77	18587
DAYBEACON	(South Slough Channel Daybeacon 6, 1977 (Field Position))	43 20	48.08	124 19	102.4	F-2-6-L 05/77	18587
DAYBEACON	(South Slough Channel Daybeacon 7, 1977 (Field Position))	43 20	32.865	124 19	227.0	F-2-6-L 05/77	18587
			14.2		163.1		
	** This position was only listed to hundredths of seconds on the field geographic positions list.						

(See reverse for responsible personnel)

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TYPE OF ACTION		RESPONSIBLE PERSONNEL	
OBJECTS INSPECTED FROM SEAWARD		NAME R. B. Melby	ORIGINATOR <input checked="" type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
FUSIONS DETERMINED AND/OR VERIFIED		R. B. Melby	FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		D. C. Hojeski	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.)			
OFFICE	<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	FIELD (Cont'd)	<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
FIELD	<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 P - Photogrammetric Vis - Visually 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
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.			
**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.			

