

TP-00738

TP-00738

NOAA FORM 76-35 (6-80)		
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY		
<b>DESCRIPTIVE REPORT</b>		
<i>Map No.</i> TP-00738	<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> AGATE BEACH TO SUNSET BAY		
<table border="1"><tr><td>1974 TO 19</td></tr></table>		1974 TO 19
1974 TO 19		
<b>REGISTERED IN ARCHIVES</b>		
<b>DATE</b>		



NOAA FORM 76-36B (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY			
TP- <del>77</del> 38 <b>COMPILATION SOURCES</b>					
<b>1. COMPILATION PHOTOGRAPHY</b>					
CAMERA(S) Wild RC8 "E" (152.71 F.L.) Wild RC1 "C" (88.47 F.L.)		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input checked="" type="checkbox"/> REFERENCE STATION RECORDS "C" <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY "E"		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Pacific MERIDIAN 123° West	
				<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
74C(C)9886 - 9888	05/27/74	12:07	1:60,000	0.46 ft. above MLLW	
74C(C)9892 - 9896	05/27/74	12:35	1:30,000	1.12 ft. above MLLW	
74E(I)5053 - 5057	05/27/74	16:29	1:30,000	0.21 ft. below MHW	
74E(I)5027 - 5032	05/27/74	11:32	1:30,000	0.07 ft. below MLLW	
74E(I)5036 - 5037	05/27/74	11:41	1:30,000	0.05 ft. 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.					
<b>2. SOURCE OF MEAN HIGH-WATER LINE:</b>					
The MHW line was compiled from photographs 74C(C)9892 thru 9896 on a Wild B-8 stereoplotter. These photographs were controlled with bridge points transferred from the 1:60,000 scale bridging photographs listed above. Infrared photographs 74E(I)5053 thru 5057, which were enlarged to approximately 1:10,000 scale, were used as interpretive aids.					
<b>3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:</b>					
The MLLW line and ledge detail were compiled graphically from prints of 74E(I)5027 thru 5032 and 74E(I)5036 and 5037, 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 MHW line.					
<b>4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)</b>					
SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED
<b>5. FINAL JUNCTIONS</b>					
NORTH		EAST		SOUTH	
TP- <del>77</del> 37		No Survey		No Survey	
WEST		REMARKS			
No Survey					

TP-00738  
**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	R. Melby
	ESTABLISHED BY	None
	PRE-MARKED OR IDENTIFIED BY	L. Riggers
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	
	<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
74C(C)9886	Arago Peak 2, 1945 (Premarked)		

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

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

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

II. LANDMARKS AND AIDS TO NAVIGATION None

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

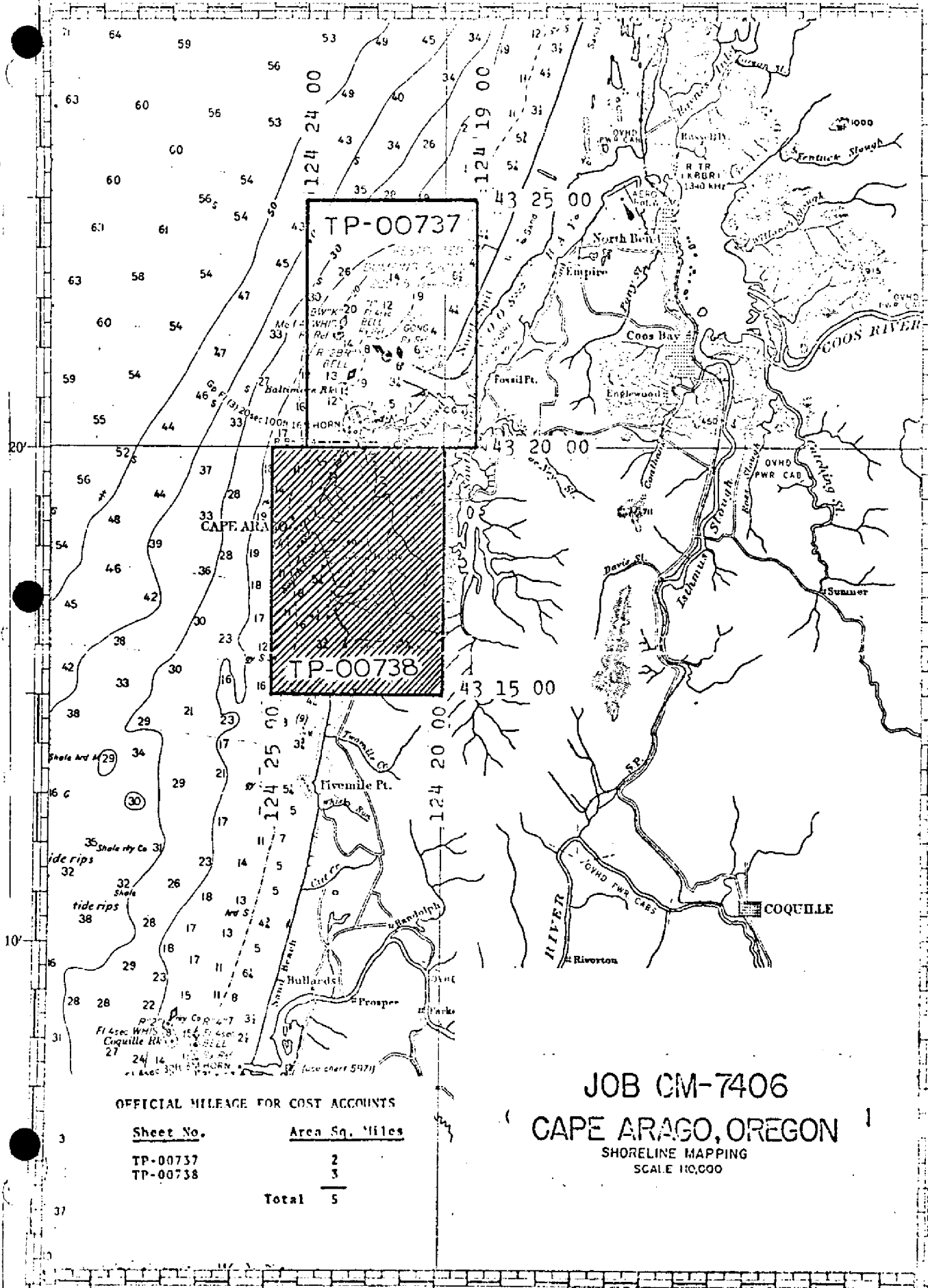
2.  REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_  
 3.  REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

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	



OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Area Sq. Miles
TP-00737	2
TP-00738	3
<b>Total</b>	<b>5</b>

**JOB CM-7406**  
**CAPE ARAGO, OREGON**  
 SHORELINE MAPPING  
 SCALE 110,000

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-00738

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, taken at 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.

Standard compilation was accomplished at the Pacific Marine Center in May 1985.

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.

Field Inspection

TP-~~00~~738

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



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 Agate 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

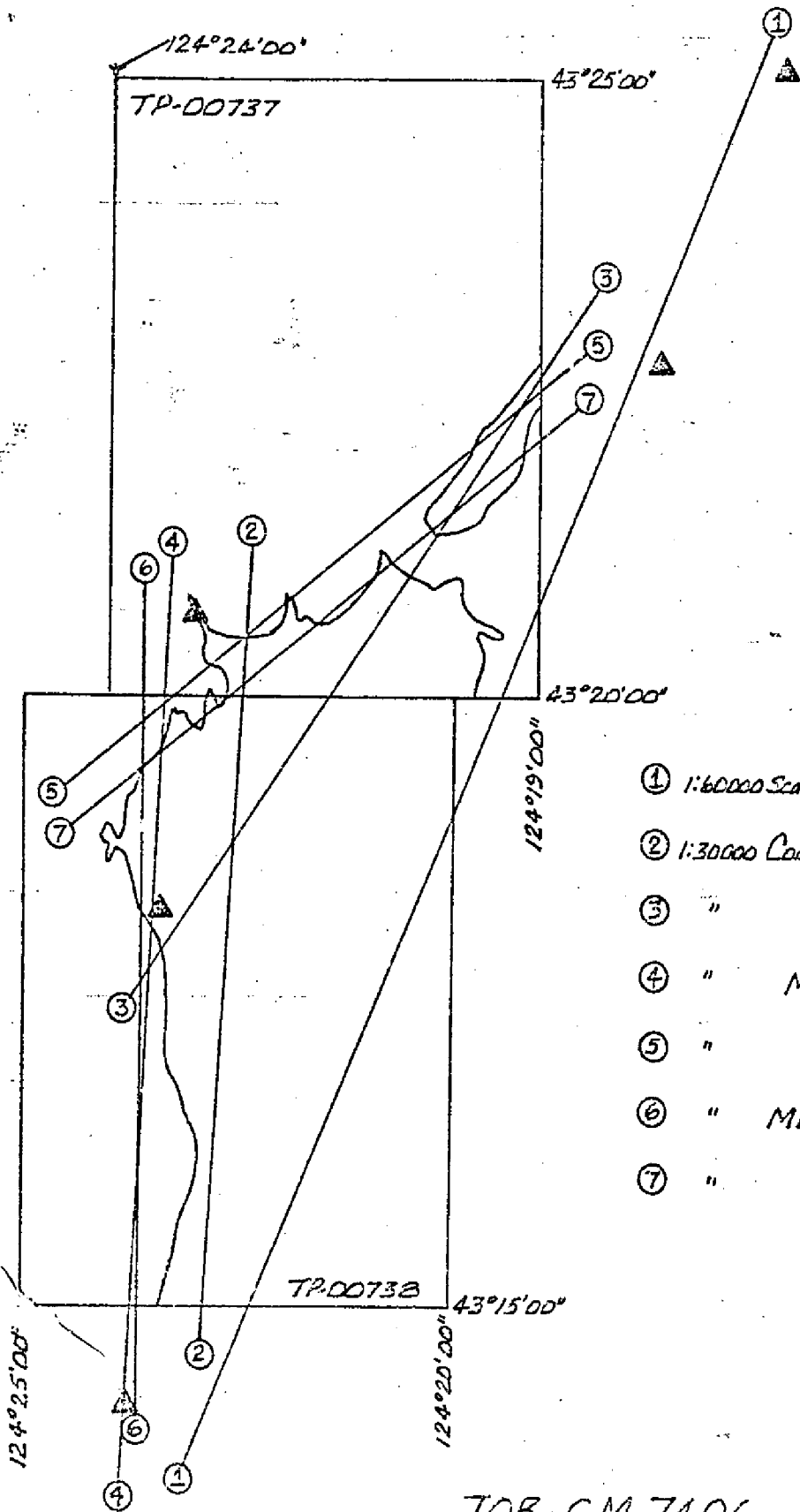
The bridging photography was adequate as to overlap, definition, and coverage.

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)9883-98
- ② 1:30000 Completion 74C(2)9892-989
- ③ " " " 9899-990
- ④ " MHW 74E 5052R-505
- ⑤ " " " 50452-5049
- ⑥ " MLLW " 5027R-503
- ⑦ " " " 5035R-5035

JOB-CM-7406

CAPE ARAGO, OREGON

1:10000 S...

NOAA FORM 76-41 (6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETTIC DATUM			ORIGINATING ACTIVITY		REMARKS
TP-738	CW-7406	North American 1927	North American 1927		P.M.C. Photogrammetric Sec.		
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS
			STATE	ZONE	$\phi$ LATITUDE	$\lambda$ LONGITUDE	
Arago Peak 2, 1945	431242	8871 $\alpha\alpha$	Oregon	South	$\phi$ 43° 17' 49.59 $\alpha$ "	$\lambda$ 124° 23' 11.632 $\alpha$ "	
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COMPUTED BY		DATE	COMPUTATION CHECKED BY				DATE
LISTED BY D. Holeski		11/7/83	LISTING CHECKED BY D. Butler				DATE 11/08/83
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY				DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

COMPILATION REPORT  
TP-00738

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.

37. Landmarks and Aids to Navigation

There are no landmarks or aids to navigation within the limits of this manuscript.

38. Control for Future Surveys

None.

39. Junctions

Refer to the preceding form 76-36B, part 5.

45. Horizontal and Vertical Accuracy

Refer to the preceding Photogrammetric Plot Report dated January 1975 and item 32 of this report.

46. Comparison with Existing Maps

A comparison was made with the following U.S.G.S. quadrangle:

Cape Arago, Or., 1:24,000 scale, dated 1970

47. Comparison with Nautical Charts

A comparison was made with the following N.O.S. chart:

18580 (Formerly 5802), Cape Blanco to Yaquina Head, 1:191,730 scale,  
14th edition dated August 30, 1980

Items to be Applied to Nautical Charts Immediately:

None

Submitted by:

*Daniel C. Holeski*

Daniel C. Holeski  
Cartographer  
February 14, 1985

Approved:

*James R. Minton*

James R. Minton  
Acting Chief, Photogrammetric Sec.  
May 7, 1985

## GEOGRAPHIC NAMES

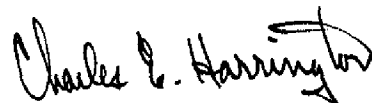
## FINAL NAME CHART

CM-7406 (Cape Arago, Oregon)

TP-00738

Agate Beach  
Cape Arago  
Middle Cove  
North Cove  
Pacific Ocean  
Sacchi Beach  
Seven Devils  
Shell Island  
Simpson Reef  
South Cove  
Sunset Bay  
Threemile Creek

Approved by:



Charles E. Harrington  
Chief Geographer  
Nautical Charting Division

REVIEW REPORT  
SHORELINE

TP-00738

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, and Charleston, Oregon. Both 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: 18587, dated March 10, 1984, 60th edition, 1:20,000 scale and 18580, dated August 30, 1980, 14th edition, scale 1:191,730.

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.*

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

Approved for forwarding

*Billy H. Barnes*

Billy H. Barnes  
Chief, Photogrammetric Section

Approved

*J. M. Money*

Chief, Photogrammetric Operations,  
Rockville

*Ronald K. Brewer*

Chief, Photogrammetric Branch,  
Rockville



