

TP-00216

TP-00216

NOAA FORM 76-35

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

## DESCRIPTIVE REPORT

Type of Survey ..Shoreline.....

Job No. PH-6607..... Map No. TP-00216....

Classification No. Final Edition No. ...1.....

Field Edited Map

### LOCALITY

State .....Oregon.....

General Locality ..Umpqua River.....

Locality ..Scottsburg.....

1971 TO 1972

### REGISTRY IN ARCHIVES

DATE .....

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
<b>DESCRIPTIVE REPORT - DATA RECORD</b>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE  Rockville, Maryland		SURVEY TP. <u>00216</u>  MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB PH. <u>6607</u>	
OFFICER-IN-CHARGE  Jack E. Guth		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
<b>I. INSTRUCTIONS DATED</b>			
<b>1. OFFICE</b>		<b>2. FIELD</b>	
Aerotriangulation, Aug. 11, 1971  Compilation, Sept. 10, 1971		Field Support, May 7, 1971  Field Edit & Small Craft Facilities Investigation Aug. 1, 1972	
<b>II. DATUMS</b>			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify) _____	
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify) _____	
3. MAP PROJECTION  Polyconic		4. GRID(S) STATE <u>Oregon</u> ZONE <u>South</u>	
5. SCALE 1:20,000		STATE _____ ZONE _____	
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
<b>OPERATIONS</b>		<b>NAME</b>	<b>DATE</b>
1. AEROTRIANGULATION METHOD: <u>Analytic</u>		J. Schad	4/72
LANDMARKS AND AIDS BY		None	
2. CONTROL AND BRIDGE POINTS METHOD: <u>Coradomat</u>		D. Phillips	4/72
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: <u>B-8</u> SCALE: <u>1:20,000</u>		P. Dempsey J.P. Battley, Jr. N.A.	5/72 5/72 _____
4. MANUSCRIPT DELINEATION  METHOD: <u>from worksheets</u>  SCALE: _____		P. Dempsey J.P. Battley, Jr. N.A. N.A.	5/72 5/72 _____ _____
HYDRO SUPPORT DATA BY		N.A.	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT		J.P. Battley, Jr.	6/72
6. APPLICATION OF FIELD EDIT DATA		H. Lucas	1972
7. COMPILATION SECTION REVIEW		None	_____
8. FINAL REVIEW		F.A. Wright	8/75
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH		N.A.	_____
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH		F.A. Wright	8/75
11. MAP REGISTERED - COASTAL SURVEY SECTION		R.T. CATDR	12/76

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NOAA FORM 76-36B (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY			
TP-00216		<b>COMPILATION SOURCES</b>			
<b>1. COMPILATION PHOTOGRAPHY</b>					
CAMERA(S) E 6" focal length		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				ZONE Western MERIDIAN 120th	<input type="checkbox"/> STANDARD <input checked="" type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
71L 6955	7/25/71	2:02	1:40,000	N.A.	
REMARKS 1:20,000 ratio prints furnished for field edit.					
<b>2. SOURCE OF MEAN HIGH-WATER LINE:</b>  Office interpretation from photographs dated July 25, 1971.					
<b>3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:</b>  None					
<b>4. CONTEMPORARY HYDROGRAPHIC SURVEYS</b> <i>(List only those surveys that are sources for photogrammetric survey information.)</i>					
SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED
<b>5. FINAL JUNCTIONS</b>					
NORTH	EAST	SOUTH	WEST		
TP-00173	No contemporary Survey		TP-00215		
REMARKS					

TP-00216

HISTORY OF FIELD OPERATIONS

1. ☒ FIELD INSPECTION OPERATION

☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Unknown *	1971
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	
	Unknown	1971
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
*Any data submitted by field party was lost.			

3. PHOTO NUMBERS (Clarification of details)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☐ NONE

6. BOUNDARY AND LIMITS: ☐ REPORT ☐ NONE

7. SUPPLEMENTAL MAPS AND PLANS

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

TP-00216

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION

☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.B. Melby	10/72
2. HORIZONTAL CONTROL RECOVERED BY	None	
ESTABLISHED BY	None	
PRE-MARKED OR IDENTIFIED BY	None	
3. VERTICAL CONTROL RECOVERED BY	None	
ESTABLISHED BY	None	
PRE-MARKED OR IDENTIFIED BY	None	
4. LANDMARKS AND AIDS TO NAVIGATION RECOVERED (Triangulation Stations) BY	None	
LOCATED (Field Methods) BY	None	
IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input checked="" type="checkbox"/> SPECIFIC NAMES ONLY BY <input type="checkbox"/> NO INVESTIGATION	R.B. Melby	10/72
6. PHOTO INSPECTION CLARIFICATION OF DETAILS BY	R.B. Melby	10/72
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY	N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

All field edit photos to Federal Records Center.

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)

None

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NOAA FORM 76-36D  
(3-72)

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

TP-00216

# RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline and along-shore features	May 1972	No record of copy being submitted		
Field Edit applied-Not checked	1972			
Final Review	Aug. 1975		Oct 1 1975	

## II. LANDMARKS AND AIDS TO NAVIGATION

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

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
			None

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:

\*\* None available

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: \_\_\_\_\_

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

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	

⑥

Summary to Accompany  
Descriptive Report TP-00216

TP-00208 through TP-00213 at 1:10,000 scale and TP-00214 through TP-00216 at 1:20,000 scale comprise Project PH-6607, Umpqua and Smith Rivers, Oregon. The purpose of this project is to provide hydro support, new topography, and shoreline for use in constructing Nautical Chart 669-SC. Refer to the project diagram for the location of each sheet in the project.

The only field work preceding compilation was the premarking of control necessary for bridging. See Photogrammetric Plot Report for details.

Compilation and field edit was broken into two phases in this project with sheets 00208 through 00213 being compiled on the Wild B-8 plotter in September and October 1971.

Stable base copies and ratio color prints were furnished for hydro support and field edit. Field edit was accomplished in November 1971 on these sheets.

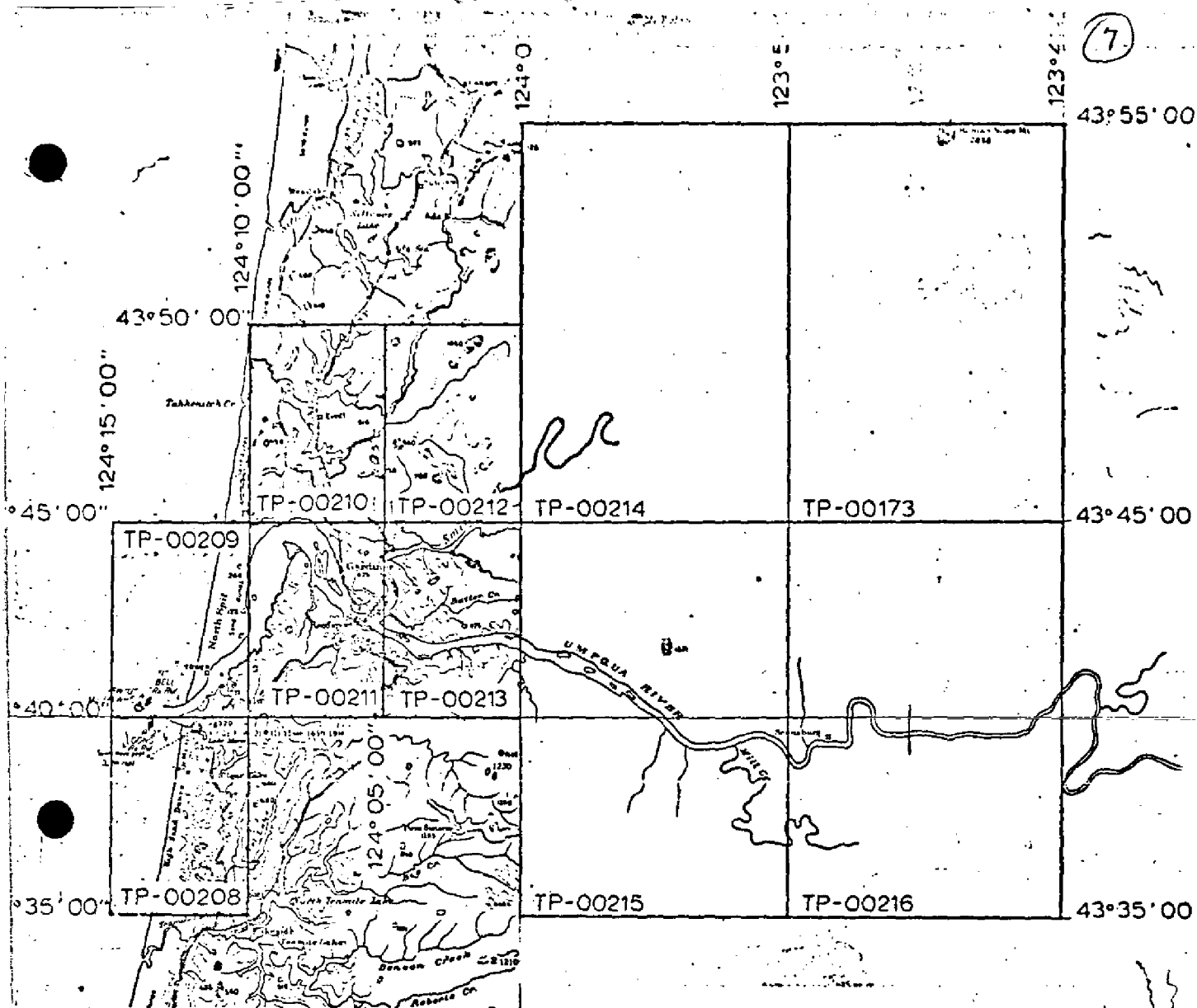
Compilation of TP-00214 through TP-00216 was accomplished on the Wild B-8 plotter in May 1972. Copies of map manuscripts and ratio color prints were furnished for field edit.

Field edit of these sheets was accomplished in September - October 1972.

Final review was accomplished in the Washington Office in 1974<sup>5</sup>.

Copies of the final reviewed map were forwarded for record and registry.

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OFFICIAL MILEAGE  
For Cost Accounts

JOB PH-6607  
UMPQUA & SMITH RIVERS,  
OREGON

Chart Topography  
&  
Shoreline Mapping  
SCALE 1:10,000 & 1:20,000

Sheet No. Sq. Miles

TP-00173	5	Not Compiled
TP-00208	4	
TP-00209	5	
TP-00210	1	
TP-00211	8	
TP-00212	1	
TP-00213	8	
TP-00214	8	
TP-00215	8	
TP-00216	6	

Total .... 51



TP-00216 ⑧

PHOTOGRAMMETRIC PLOT REPORT  
Umpqua and Smith Rivers, Oregon  
Job PH-6607  
May 1972

21. Area Covered

This report covers the area east from the mouth of the Umpqua and Smith Rivers to longitude 123° 40'. Control was extended for the compilation of six (6) 1:10,000 scale maps (TP-00208 thru TP-00213) for hydro support and four (4) 1:20,000 scale maps (TP-00214 thru TP-00216 and TP-00173) for chart compilation.

22. Method

Strips 1 and 2 (1:40,000 scale photography) and Strip 3 (1:30,000 scale photography) were bridged using analytic aerotriangulation methods. Sketch 1 shows the placement of control and the flight lines of the photography. Ties were made between all strips. Compilation points were located in strips 2 and 3 for the 1:20,000 scale compilation. Common points were located between the bridging photography and the 1:20,000 scale hydro support photography to determine the ratio for the 1:10,000 scale compilation. Sketch 2 shows the flight lines of the hydro support photography.

Natural objects (tanks, stacks, etc.) visible during bridging were located as aids for the hydro support party. All data for ruling projections and plotting of points for the compilation office were furnished to the Coradomat on the Oregon State (south zone) Plane Coordinate System.

23. Adequacy of Control

Horizontal control was premarked and was adequate for bridging.

24. Photography

The following RC-8 color photography was used in bridging:

1:40,000 scale

Strip 1 - 71-E(C)-6947 thru 6942  
Strip 2 - 71-E(C)-6969 thru 6980

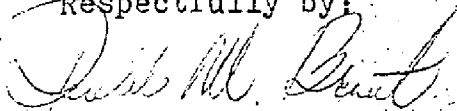
1:30,000 scale

Strip 3 - 71-E(C)-7757 thru 7774



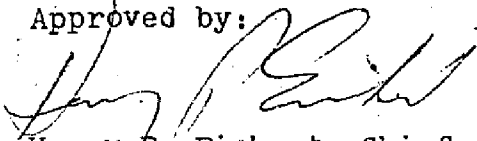
The definition and quality of the photography was good except for some areas obscured by clouds. The clouds did not affect the accuracy of the bridge.

Respectfully by:



Donald M. Brant  
Cartographer

Approved by:

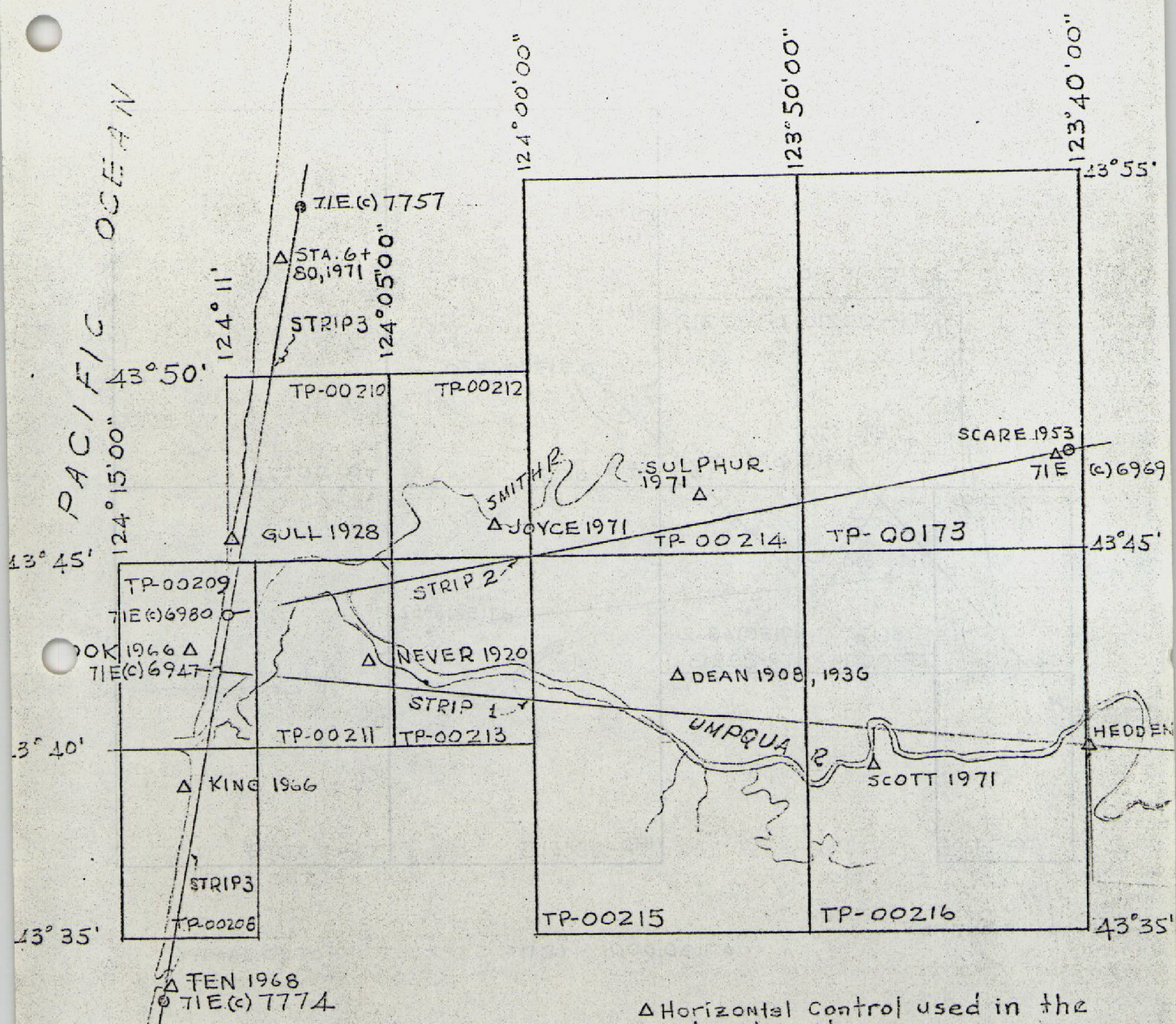


Henry P. Eichert, Chief  
Aerotriangulation Section



TP-60216

sketch 1



Δ Horizontal Control used in the adjustment  
 01:40,000 Photography  
 01:30,000 Photography

JOB PH-6607  
 UMPQUA & SMITH RIVERS

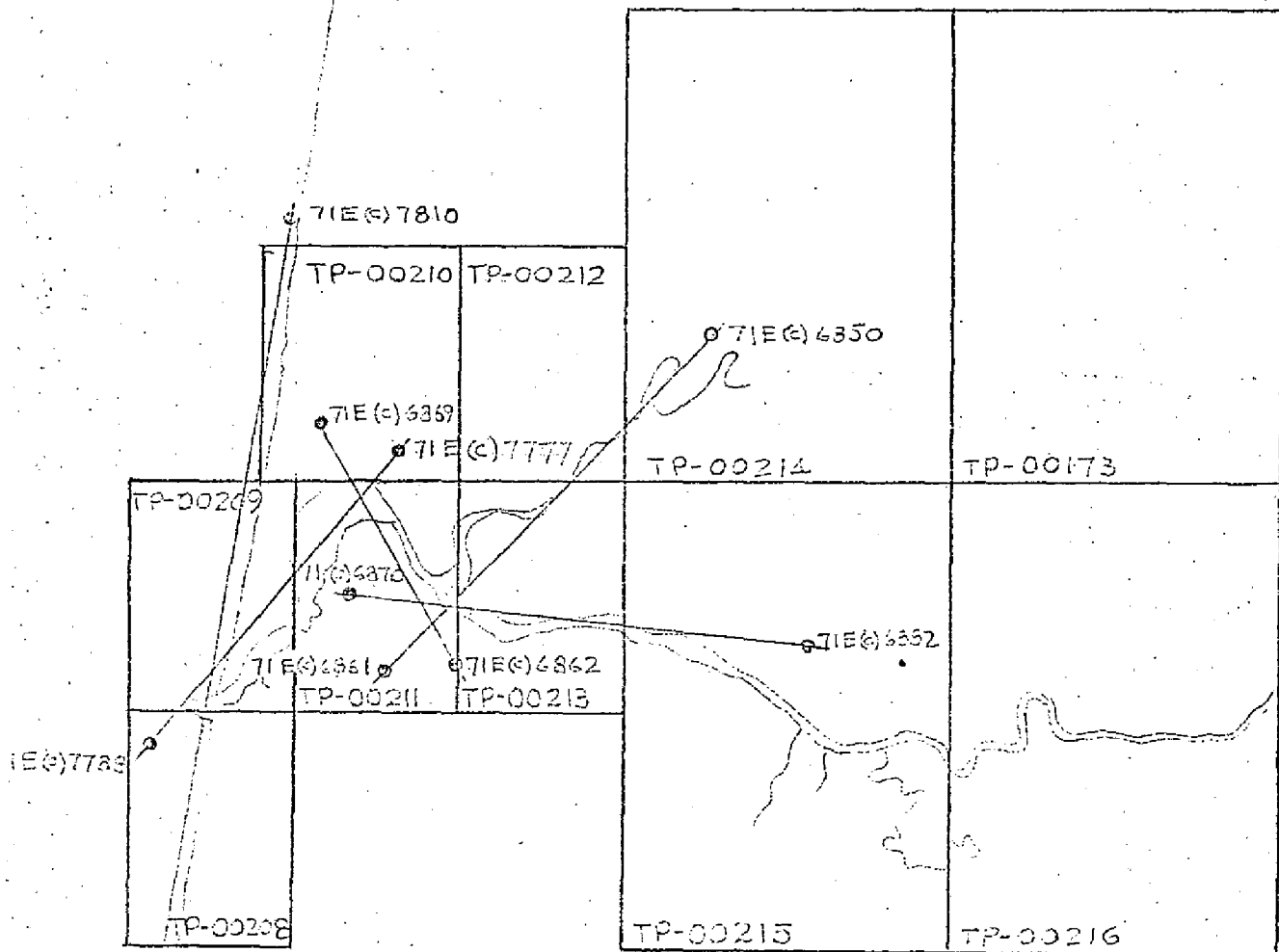
OREGON  
 CHART TOPOGRAPHY  
 AND  
 SHORELINE MAPPING  
 SCALE 1:10,000 & 1:20,000

(OVER)



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Sketch 2



• 1:20,000 HYDRO SUPPORT PHOTOGRAPHY

Compilation Report  
TP-00216

31. Delineation

The 1:40,000 scale color photography was set on the B-8 to compile at 1:20,000 scale. Shoreline and alongshore detail inshore to the limits of the photograph were delineated for construction of new small craft chart No. 669SC, which will cover the UMPQUA RIVER. The 1:40,000 scale photographs were ratioed to 1:20,000 scale for use in field inspection.

32. Control

Horizontal control was adequate for density and placement.

Vertical control was from USGS quadrangles and water level.

33. Supplemental Data - None

34. Contours and Drainage

Contours are inapplicable. Important drainage compiled.

35. Shoreline and Alongshore Detail

Shoreline was compiled from office interpretation.

36. Offshore Detail - None

37. Landmarks and Aids - None

38. Control for Future Surveys - None

39. Junctions

Refer to form 76-36b of this report.

40. Horizontal and Vertical Accuracy

See Photogrammetric Plot Report.

41. thru 45. Inapplicable.

46. Comparison with Existing Maps

Comparison was made with USGS quadrangle Scottsburg, Oregon, scale 1:62,500, contour interval 80 feet, dated 1955.

47. Comparison with Nautical Charts - Not applicable

Respectfully submitted

*Patrick J. Dempsey*  
Patrick J. Dempsey  
Carto(Photo)

Approved and forwarded:

*Jeter P. Battley Jr.*

J. P. Battley, Jr.  
Chief, Coastal Mapping Section

13 August 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6607 (Oregon)

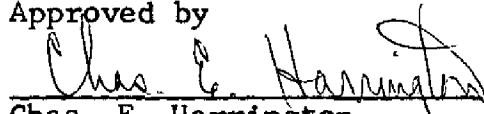
TP-00216

Little Mill Creek

Scottsburg

Umpqua River

Approved by



Chas. E. Harrington  
Staff Geographer-C51x2

TP00216

FIELD EDIT REPORT  
CHART TOPOGRAPHY AND SMALL CRAFT FACILITIES INVESTIGATION  
Umpqua and Smith Rivers, Oregon  
September - October 1972  
Map Manuscripts TP-00213 thru TP-00216  
Project PH-6607



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## FIELD EDIT REPORT

Chart Topography and Small Craft Facilities Investigation  
Umpqua and Smith Rivers, Oregon  
September - October 1972  
Map Manuscripts TP-00213 thru TP-00216  
Project PH-6607

This report covers an area of the Umpqua and Smith Rivers from the vicinity of the town of Reedsport eastward to the limits of small boat travel.

The entire shoreline was inspected from a small boat. The field edit copies (discrepancy sheets) of the map manuscripts were used as the index for the field corrections and the photographs containing the bulk of the corrections. However, minor corrections and deletions may only appear on the photographs and the cross referenced to the map manuscripts will be by photo number only.

Both rivers pass through narrow, steep sloped, wooded canyons, with narrow low lands and marshes along shore. Small farms and cattle grazing areas are in evidence where the land is suitable to support such activities.

Logging operations are in evidence along both rivers. Sand-gravel dredges and their transporting barges can be found in certain areas of the Umpqua River, recovering bottom aggregates.

Numerous piling and dolphins can be found along the shoreline of both rivers. Apparently the piling was and is used to secure log rafts.

The majority of the piling is old and untreated and it is in various stages of decay, but they still constitute a hazard to navigation.

Piers and wharves are few. Most of the along shore mooring features are floating piers secured to the shore and are able to compensate for the rise and fall of the rivers due to tidal and spring freshet influence.

All fixed aids to navigation were investigated and located photogrammetrically. One aid, Echo Island Lower Light A, was not on station during the initial field edit in September 1972. The site was revisited in October 1972 and the light, which had been rebuilt was then located. They have been listed on form 76-40.

No landmarks, worthy of listing on form 76-40, were found, although, several features were indicated on the photography as being of landmark value.

Numerous power cable crossings over both rivers were found, except in a few cases the crossings were minor, overhead wires leading to dwellings.

Small craft facilities were investigated and each one has been entered on form 77-3, also cross-referenced to the photos and field edit sheets.

The shoreline along the Umpqua River is usually rocky, sand-mud or boulders with adjacent or overhanging trees. In the vicinity of Scottsburg, numerous bottom and shoreline rocks are evident, also rapids. This was the extent of the upstream skiff travel during the month of September 1972. The shoreline along the Smith River is mostly of an "earth" composition (sand-mud), near the upstream limits of skiff travel, scattered boulders and a rocky bottom were observed.

The Smith River also contains several islands near its confluence with the Umpqua River. These islands are usually of a marshy composition and subject to inundation during the higher tides or spring freshets.

A formal geographic names report is not being submitted. New names or deletions appear on the field edit sheets.

Pertinent information pertaining to each individual discrepancy sheet will be entered under that specific sheet.

Sheet TP-00213

The 1971 field edit indicated lines of piling over bare islands. These islands are "marshy" with tall grass and are subject to periodic inundation.

Hinsdale Light 18 was compiled as Light 15. Hinsdale Light 15 was not compiled. See photo 71E 6951 for location of both of the above mentioned lights.

Sheet TP-00214

A silo of landmark value is noted on this sheet. It is not listed on form 76-40. The extent of the upstream travel by skiff has been indicated on this sheet.

Sheet TP-00216

The rapids as compiled on this sheet are correct. Numerous rocks, boulders, and similiar bottom characteristics are in evidence. Upstream of the fixed span, highway bridge a small groin was compiled. Apparently this feature was disturbed during a spring freshet and only a gravel flat remains at this date. The upstream extent of small boat travel has been indicated. At a higher river stage, further upstream travel may be possible but hazardous due to rocks, etc.

Respectfully Submitted,

*Robert B. Melby*

Robert B. Melby  
Chief, Photo Party, PMC

Review Report  
TP-00216  
August 1975

61. General Statement

See summary, page 6 of this report.

62. Comparison with Registered Topographic Surveys

None available.

63. Comparison with Maps of Other Agencies

No comparison made. Only 1:62,500 quad available.

64. Comparison with Contemporary Hydrographic Surveys

None available.

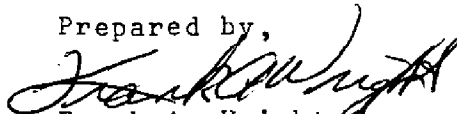
65. Comparison with Nautical Charts

Only chart covering area is 5802; no comparison made as scale is 1:191,730.

66. Adequacy of Results and Future Surveys

This map complies with the project instructions and meets the National Standards of Map Accuracy.

Prepared by,

  
Frank A. Wright  
Cartographer

Approved:

Chief, Photogrammetric Branch



Chief, Coastal Mapping Division

