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

© U.S. GOVERNMENT PRINTING OFFICE: 1973-761-775
### DESCRITIVE REPORT - DATA RECORD

**PHOTOGRAHMETRIC OFFICE**
Rockville, Maryland

**OFFICER-IN-CHARGE**
Jack E. Guth

<table>
<thead>
<tr>
<th>I. INSTRUCTIONS DATED</th>
<th>2. FIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerotriangulation, Aug. 11, 1971</td>
<td>Field Support, May 7, 1971</td>
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**II. DATUMS**

<table>
<thead>
<tr>
<th>1. HORIZONTAL:</th>
<th>OTHER (Specify)</th>
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<tbody>
<tr>
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<table>
<thead>
<tr>
<th>2. VERTICAL:</th>
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<tbody>
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<table>
<thead>
<tr>
<th>3. MAP PROJECTION</th>
<th>4. GRID SYSTEM</th>
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</thead>
<tbody>
<tr>
<td>Polyconic</td>
<td>Oregon South</td>
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<table>
<thead>
<tr>
<th>5. SCALE</th>
<th>STATE</th>
<th>ZONE</th>
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<tbody>
<tr>
<td>1:20,000</td>
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**III. HISTORY OF OFFICE OPERATIONS**

<table>
<thead>
<tr>
<th>OPERATIONS</th>
<th>METHOD</th>
<th>LANDMARKS AND AIDS</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. AEROTRIANGULATION</td>
<td>Analytic</td>
<td>None</td>
<td>J. Schad</td>
<td>4/72</td>
</tr>
<tr>
<td>2. CONTROL AND BRIDGE POINTS</td>
<td>Coradomat</td>
<td>Checked</td>
<td>B. Phillips</td>
<td>4/72</td>
</tr>
<tr>
<td>3. STEREOSCOPIC INSTRUMENT COMPILATION</td>
<td>E-8</td>
<td>Checked</td>
<td>P. Dempsey</td>
<td>5/72</td>
</tr>
<tr>
<td></td>
<td>by PLANIMETRY</td>
<td>CHANGED BY</td>
<td>J.P. Battley, Jr.</td>
<td>6/72</td>
</tr>
<tr>
<td></td>
<td>by CONTOURS</td>
<td>CHECKED BY</td>
<td>N.A.</td>
<td></td>
</tr>
<tr>
<td>4. MANUSCRIPT DELINEATION</td>
<td>from worksheets</td>
<td>Checked</td>
<td>P. Dempsey</td>
<td>5/72</td>
</tr>
<tr>
<td></td>
<td>by PLANIMETRY</td>
<td>CHANGED BY</td>
<td>J.P. Battley, Jr.</td>
<td>5/72</td>
</tr>
<tr>
<td></td>
<td>by CONTOURS</td>
<td>CHECKED BY</td>
<td>N.A.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>by HYDRO SUPPORT DATA</td>
<td>CHECKED BY</td>
<td>N.A.</td>
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<tr>
<td>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</td>
<td>by JP. Battley, Jr.</td>
<td>6/72</td>
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<td>6. APPLICATION OF FIELD EDIT DATA</td>
<td>by H. Lucas</td>
<td>1972</td>
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<tr>
<td>7. COMPILATION SECTION REVIEW</td>
<td>by None</td>
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<td></td>
<td></td>
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<tr>
<td>8. FINAL REVIEW</td>
<td>by P.A. Wright</td>
<td>8/75</td>
<td></td>
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<tr>
<td>9. DATA forwarded TO PHOTOGRAHMETRIC BRANCH</td>
<td>by N.A.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. DATA EXAMINED IN PHOTOGRAHMETRIC BRANCH</td>
<td>by P.A. Wright</td>
<td>8/75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. MAP REGISTERED - COASTAL SURVEY SECTION</td>
<td>by R.T. Lator</td>
<td>7/72</td>
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* U.S. G.P.O. 1972-769382/582 REG. #6
1. **Compilation Photography**

<table>
<thead>
<tr>
<th>Number and Type</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<tr>
<td>71L 6955</td>
<td>7/25/71</td>
<td>2:02</td>
<td>1:40,000</td>
<td>N.A.</td>
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**Remarks:**

1:20,000 ratio prints furnished for field edit.

2. **Source of Mean High-Water Line:**


3. **Source of Mean Low-Water or Mean Lower Low-Water Line:**

None

4. **Contemporary Hydrographic Surveys** (List only those surveys that are sources for photogrammetric survey information.)

<table>
<thead>
<tr>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
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5. **Final Juctions**

<table>
<thead>
<tr>
<th>North</th>
<th>East</th>
<th>South</th>
<th>West</th>
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<tbody>
<tr>
<td>TP-00173</td>
<td>No contemporary Survey</td>
<td></td>
<td>TP-00215</td>
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**Remarks:**
### HISTORY OF FIELD OPERATIONS

**TP-00216**

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>Unknown *</td>
<td>1971</td>
</tr>
<tr>
<td>2. HORIZONTAL CONTROL</td>
<td>Unknown</td>
<td>1971</td>
</tr>
<tr>
<td>3. VERTICAL CONTROL</td>
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<td></td>
</tr>
<tr>
<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
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<td></td>
</tr>
<tr>
<td>5. GEOGRAPHIC NAMES INVESTIGATION</td>
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<td></td>
</tr>
<tr>
<td>6. PHOTO INSPECTION</td>
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<td></td>
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<tr>
<td>7. BOUNDARIES AND LIMITS</td>
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**II. SOURCE DATA**

1. HORIZONTAL CONTROL IDENTIFIED

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>STATION NAME</th>
<th>PHOTO NUMBER</th>
<th>STATION DESIGNATION</th>
</tr>
</thead>
</table>

"Any data submitted by field party was lost."

3. PHOTO NUMBERS (Clarification of details)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>OBJECT NAME</th>
<th>PHOTO NUMBER</th>
<th>OBJECT NAME</th>
</tr>
</thead>
</table>

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 Geodey Division)
### History of Field Operations

<table>
<thead>
<tr>
<th>Operation</th>
<th>Name</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Chief of Field Party</td>
<td>R.B. Melby</td>
<td>10/72</td>
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<tr>
<td>Horizontal Control</td>
<td>None</td>
<td></td>
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<tr>
<td>Vertical Control</td>
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<tr>
<td>Landmarks and Aids to Navigation</td>
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#### Source Data

1. Horizontal Control Identified
   - None

2. Vertical Control Identified
   - None

3. Photo Numbers (Clarification of Details)
   - All field edit photos to Federal Records Center.

4. Landmarks and Aids to Navigation Identified
   - None

5. Geographic Names: □ Report   X None

6. Boundary and Limits: □ Report   X None

7. Supplemental Maps and Plans
   - None

8. Other Field Records (Sketch books, etc. DO NOT list data submitted to the Geodey Division)
   - None
## Record of Survey Use

### I. Manuscript Copies

<table>
<thead>
<tr>
<th>Compilation Stages</th>
<th>Date</th>
<th>Remarks</th>
<th>Marine Charts</th>
<th>Hydro Support</th>
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<tbody>
<tr>
<td>Shoreline and along-shore features</td>
<td>May 1972</td>
<td>No record of copy being submitted</td>
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<tr>
<td>Field Edit applied-Not checked</td>
<td>1972</td>
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### II. Landmarks and Aids to Navigation

#### 1. Reports to Marine Chart Division, Nautical Data Branch

<table>
<thead>
<tr>
<th>Number</th>
<th>Chart Letter Number Assigned</th>
<th>Date Forwarded</th>
<th>Remarks</th>
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#### 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

<table>
<thead>
<tr>
<th>Survey Edition</th>
<th>Survey Number</th>
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<tr>
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<td>TP 1</td>
<td>PH</td>
<td>Marine Class</td>
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<tr>
<td>Third</td>
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<td></td>
<td>Revised</td>
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<tr>
<td></td>
<td>TP 2</td>
<td>PH</td>
<td>Marine Class</td>
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<tr>
<td>Fourth</td>
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<tr>
<td></td>
<td>TP 3</td>
<td>PH</td>
<td>Marine Class</td>
</tr>
</tbody>
</table>

NOAA Form 76-36D
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-8607, 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 869-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. Copies of the final reviewed map were forwarded for record and registry.
JOB PH-6607

UMPOQUA & SMITH RIVERS, OREGON

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

OFFICIAL MILEAGE
For Cost Accounts

Sheet No.   Sq. Miles
TP-00173    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    5
TP-00216    6

Total .... 52
PHOTOGRAHMETRIC 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 129° 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-00217) 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 RG-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
JOB PH-6607
UMPQUA & SMITH RIVERS

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

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

[Signature]

Patrick J. Dempsey
Carto(Photo)

Approved and forwarded:

[Signature]

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
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
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 similar 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.
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