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

DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Shoreline</th>
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<tbody>
<tr>
<td>Job No.</td>
<td>PH-6607</td>
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<tr>
<td>Map No.</td>
<td>TP-00209</td>
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<td>Classification</td>
<td>Final</td>
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<td>Field Edited Map</td>
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LOCALITY

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<tr>
<th>State</th>
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<tbody>
<tr>
<td>General Locality</td>
<td>Umpqua River</td>
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<tr>
<td>Locality</td>
<td>Pacific Ocean &amp; Umpqua River</td>
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1971 TO 1971

REGISTRY IN ARCHIVES

DATE

© U.S. GOVERNMENT PRINTING OFFICE: 1973-781-775
NOAA FORM 76-36A
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

PHOTOMGRAMMETRIC OFFICE
Rockville, Maryland
OFFICER-IN-CHARGE
Jack Guth

I. INSTRUCTIONS DATED
1. OFFICE
Aerotriangulation - August 11, 1971
Compilation, September 10, 1971

2. FIELD
Field Support - May 7, 1971

II. DATUMS
1. HORIZONTAL: 1927 NORTH AMERICAN

2. VERTICAL:
OTHER (Specify)

3. MAP PROJECTION
Polyconic

4. GRID(S)
STATE Oregon
ZONE South

STATE
ZONE

III. HISTORY OF OFFICE OPERATIONS

<table>
<thead>
<tr>
<th>OPERATIONS</th>
<th>NAME</th>
<th>DATE</th>
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</thead>
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<tr>
<td>1. AEROTRIANGULATION</td>
<td>D. Brant</td>
<td>9/71</td>
</tr>
<tr>
<td>METHOD: Analytic</td>
<td>LANDMARKS AND AIDS BY</td>
<td>D. Phillips</td>
</tr>
<tr>
<td>2. CONTROL AND BRIDGE POINTS</td>
<td>D. Phillips</td>
<td>9/71</td>
</tr>
<tr>
<td>METHOD: Coradi</td>
<td>PLOTTED BY</td>
<td>D. Phillips</td>
</tr>
<tr>
<td>3. STEREOSCOPIC INSTRUMENT COMPILATION</td>
<td>J. Taylor</td>
<td>10/71</td>
</tr>
<tr>
<td>INSTRUMENT: B-8</td>
<td>J.P. Battley, Jr.</td>
<td>10/71</td>
</tr>
<tr>
<td>SCALE: 1:10,000</td>
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<tr>
<td>4. MANUSCRIPT DELINEATION</td>
<td>J. Taylor</td>
<td>10/71</td>
</tr>
<tr>
<td>PLANEOMETRY BY</td>
<td>J.P. Battley, Jr.</td>
<td>10/71</td>
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<tr>
<td>CHECKED BY</td>
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<tr>
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<td>J.P. Battley, Jr.</td>
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<tr>
<td>METHOD:</td>
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<td>10/71</td>
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<td>10/71</td>
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<td>10/71</td>
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<td>6. APPLICATION OF FIELD EDIT DATA</td>
<td>J.P. Battley, Jr.</td>
<td>10/71</td>
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<tr>
<td>CHECKED BY</td>
<td>H. Lucas</td>
<td>7/2</td>
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<td>7. COMPILELATION SECTION REVIEW</td>
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<td>CHECKED BY</td>
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<tr>
<td>8. FINAL REVIEW</td>
<td>F.A. Wright</td>
<td>8/75</td>
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<tr>
<td>9. DATA FORWARD TO PHOTOMGRAMMETRIC BRANCH</td>
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<td>10. DATA EXAMINED IN PHOTOMGRAMMETRIC BRANCH</td>
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<td>11. MAP REGISTERED - COASTAL SURVEY SECTION</td>
<td>P.T. Catke</td>
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**COMPILATION SOURCES**

1. **COMPILATION PHOTOGRAPHY**

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**TYPES OF PHOTOGRAPHY LEGEND**

- (C) COLOR
- (P) PANCHROMATIC
- (I) INFRARED

**TIME REFERENCE**

- ZONE: Pacific
- MERIDIAN: 120
- STANDARD
- DAYLIGHT

**REMARKS**

1:20,000 scale ratioed to 1:10,000 manuscript scale.

2. **SOURCE OF MEAN HIGH-WATER LINE:**

Office interpretation from 1:40,000 scale photography on B-8 and checked with 1:10,000 scale ratioed photographs.

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.)

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5. **FINAL JUNCTIONS**

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<tr>
<td>TP-00210</td>
<td>TP-00211</td>
<td>TP-00208</td>
<td>West No contem- porary Survey</td>
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**REMARKS**
### HISTORY OF FIELD OPERATIONS

1. **FIELD INSPECTION OPERATION**
   - **OPERATION**: CHIEF OF FIELD PARTY
   - **NAME**: Unknown*
   - **DATE**: 1971

2. **HORIZONTAL CONTROL**
   - **RECOVERED BY**: Unknown
   - **DATE**: 1971

3. **VERTICAL CONTROL**
   - **RECOVERED BY**: Unknown
   - **DATE**: 1971

4. **LANDMARKS AND AIDS TO NAVIGATION**
   - **RECOVERED (Triangulation Stations) BY**: Unknown
   - **IDENTIFIED BY**: Unknown

5. **GEOGRAPHIC NAMES INVESTIGATION**
   - **COMPLETE**: No
   - **SPECIFIC NAMES ONLY**: Yes
   - **NO INVESTIGATION**: No

6. **PHOTO INSPECTION**: CLARIFICATION OF DETAILS

7. **BOUNDARIES AND LIMITS**: SURVEYED OR IDENTIFIED

### SOURCE DATA

1. **HORIZONTAL CONTROL IDENTIFIED**
2. **VERTICAL CONTROL IDENTIFIED**

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<th>STATION DESIGNATION</th>
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*Any data submitted by Field Party was lost.*

3. **PHOTO NUMBERS (Clarification of details)**

4. **LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED**

<table>
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<tr>
<th>PHOTO NUMBER</th>
<th>OBJECT NAME</th>
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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)
# HISTORY OF FIELD OPERATIONS

1. **FIELD INSPECTION OPERATION**
   - **NAME**: R.P. Hewitt LTJG
   - **DATE**: 11/71
   - **RECOVERED BY**: N.A.
   - **ESTABLISHED BY**: N.A.
   - **PRE-MARKED OR IDENTIFIED BY**: N.A.

2. **HORIZONTAL CONTROL**
   - **RECOVERED**: Yes
   - **ESTABLISHED**: Yes
   - **PRE-MARKED OR IDENTIFIED**: Yes
   - **NAME**: R.P. Hewitt
   - **DATE**: 11/71

3. **VERTICAL CONTROL**
   - **RECOVERED**: Yes
   - **ESTABLISHED**: Yes
   - **PRE-MARKED OR IDENTIFIED**: Yes
   - **NAME**: R.P. Hewitt
   - **DATE**: 11/71

4. **LANDMARKS AND AIDS TO NAVIGATION**
   - **RECOVERED**: Yes
   - **LOCATED**: Yes
   - **IDENTIFIED**: Yes
   - **NAME**: R.P. Hewitt
   - **DATE**: 11/71

5. **GEOGRAPHIC NAMES INVESTIGATION**
   - **TYPE OF INVESTIGATION**
     - **COMPLETE**: None
     - **SPECIFIC NAMES ONLY**: Yes
     - **NO INVESTIGATION**: None
   - **NAME**: R.P. Hewitt
   - **DATE**: 11/71

6. **PHOTO INSPECTION**
   - **CLARIFICATION OF DETAILS**: Yes
   - **NAME**: R.P. Hewitt
   - **DATE**: 11/71

7. **BOUNDARIES AND LIMITS**
   - **SURVEYED OR IDENTIFIED**: Yes
   - **NAME**: N.A.
   - **DATE**: 11/71

## SOURCE DATA

1. **HORIZONTAL CONTROL IDENTIFIED**: None
2. **VERTICAL CONTROL IDENTIFIED**: None

## PHOTO NUMBERS

- **(Clarification of details)**
- **All field edit photos to Federal Records Center**
- **See Form 76-40 in this report.**

## GEOGRAPHIC NAMES

- **REPORT**: None
- **NONE**: None

## BOUNDARY AND LIMITS

- **REPORT**: None
- **NONE**: None

## SUPPLEMENTAL MAPS AND PLANS

- **None**

## OTHER FIELD RECORDS

- **Sketch books, etc.**
- **DO NOT list data submitted to the Geodesy Division**
### RECORD OF SURVEY USE

#### I. MANUSCRIPT COPIES

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<tr>
<th>DATA COMPILED</th>
<th>COMPILATION STAGES</th>
<th>DATE MANUSCRIPT FORWARDED</th>
<th>REMARKS</th>
<th>MARINE CHARTS</th>
<th>HYDRO SUPPORT</th>
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<td>Oct 1</td>
<td>1975</td>
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#### II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORT TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

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<td>1</td>
<td></td>
<td>Oct 1 1975</td>
<td>None prior to final review.</td>
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#### 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**

#### IV. SURVEY EDITIONS

<table>
<thead>
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<th>JOB NUMBER</th>
<th>TYPE OF SURVEY</th>
<th>MAP CLASS</th>
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**NOAA FORM 76-36D**
Summary to Accompany
Descriptive Report TP-00209

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 to 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.

A copy of this sheet was furnished to charts before any review was made. Refer to review report for particulars.

Compilation of TP-00214 through TP-00216 was accomplished on the Wild B-8 plotter in May 1972. Copies of the 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 197A.

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

[Signature]
Donald M. Brant
Cartographer

Approved by:

[Signature]
Henry P. Eichert, Chief
Aerotriangulation Section
JOB PH-6607
UMQUA & SMITH RIVERS.
OREGON
CHART TOPOGRAPHY
AND
SHORELINE MAPPING
SCALE: 1:10,000 & 1:20,000
Sketch 2

1:20,000 HYDROLOGICAL PHOTOGRAPHY
31. **Delineation**

The 1:40,000 scale color photography was set on the B-8 stereoplottter and compiled at 1:10,000 scale. Shoreline and alongshore detail and points common with the 1:10,000 color ratioed photographs were plotted for hydro support.

32. **Control**

Horizontal control was adequate for density and placement.

Vertical control was from U.S.G.S. quadrangles and water level.

33. **Supplemental data** - None

34. **Contours and Drainage** - Inapplicable

35. **Shoreline and Alongshore Detail**

Shoreline was compiled on B-8 by office interpretation.

One dolphin shown on Nautical Chart 6004 could not be seen and should be located or verified by field edit. Reef line, presumed to be gone, will have to be determined by field edit.

There was no field inspection for this project.

36. **Offshore Details** - Inapplicable

37. **Landmarks and Aids**

Five aids to navigation were located by photographs. No landmarks.

38. **Control for Future Surveys** - None

39. **Junctions**

Refer to form 76-36b.

40. **Horizontal and Vertical Accuracy**

See photogrammetric plot report.

41. thru 45. Inapplicable
46. **Comparison with Existing Maps**

Comparison was made with U.S.G.S. quadrangle Reedsport, Oregon, Scale 1:62,500, dated 1956.

47. **Comparison with Nautical Charts**

Comparison was made with Nautical Chart No. 6004, scale 1:20,000, 36th edition, dated August 15, 1970.

Items to be applied to Nautical Charts Immediately: None

Items to be Carried Forward: None.

Respectfully submitted,

James Taylor
Carto Tech. (Photo)

Approved and Forwarded:

J. P. Battley, Jr.
Chief, Coastal Mapping Section
GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6607 (Oregon)

TR-00209

Army Hill
Brushy Hill
Cornwall Point
Pacific Ocean
Salmon Harbor
Siuslaw National Forest
Umpqua River
Winchester Bay (locality)
Winchester Bay (water)
Winchester Point

Approved by
Chas. E. Harrington
Staff Geographer-CSx2
FIELD EDIT REPORT
UMPQUA RIVER, OREGON
JOB PH 6607

OPR 498 - DAVIDSON
NOVEMBER, 1971

Field edit was accomplished in accordance with OPORDER, Pacific Marine Center (in conjunction with OPR 498) and current Photogrammetry Instructions.

Features, obstructions, aids and landmarks were located by intersection from triangulation stations and by sextant resections from triangulation, topographic and photo positions. All changes, deletions and additions to the manuscript are indexed on the field ozalid (paper) in violet ink with the exception of green ink for deletions. The cronaflex print contains all control used for hydrography and field edit as well as fix positions. Many items have been photo-identified, so labeled on the appropriate photograph and indexed on the field ozalid.

The Army Corps of Engineers maintains many dredge signals and ranges in this area which can be a useful aid to navigation if charted; these items, where so noted on the manuscript, should be charted and labeled but not in a landmark status.

The log rafts shown on photographs are in temporary storage areas; a storage area being any one of the piling and dolphin lines delineated on these manuscripts, from Gardiner Intcr. Paper Co. eastward up the Umpqua River and Smith River.

All work may be considered correct as of November 20, 1971.
TP 00209

WINCHESTER BAY

52. ADEQUACY OF COMPILATION

Compilation was adequate considering no previous field inspection.

Four triangulation and triangulation intersection stations appear on this manuscript; all were not plotted (BENT, FOUR-MILE LIGHT, CORNWALL (USE) and BUSHY HILL 2). The tower mapped at Lat. 43° 40.5', Long. 124° 10.6' does not exist; a telephone pole, the same height as others in the area and having no mapping importance, approximately occupies this position.

The question "Determine what is in this area", in reference to the two small coves across the river from Salmon Harbor entrance, was not clearly understood. Both areas are bare at MLLW as mapped and hence are littered with logs and other floating debris; the northern cove contains 3 dolphins visible on photo 7784.

54. RECOMMENDATIONS

See TP 00211

56. GEOGRAPHIC NAMES

A specific geographic names investigation revealed one change; in the Winchester Bay area "Salmon Harbor" refers to the eastern most boat and yacht basin. "Winchester Bay" refers to the newly constructed westernmost 3 yacht basins which occupy the same approximate geographic area as the shallow cove known formerly as Winchester Bay.

57. FIXED AIDS TO NAVIGATION AND LANDMARKS

Five fixed aids to navigation appear on this manuscript; one is triangulation, 3 were located by theodolite intersection, and one was office identified and field verified. There are no landmarks on this map.

58. ADDITIONAL INFORMATION

The four towers, which were office plotted, are Army Corps of Engineers dredge ranges which should be charted as such but not as landmarks. Six Army Corps of Engineers dredge signals were located on this manuscript; they consist of a white fence type structure and should be mapped as shoreline detail. All jettys are in good condition; the trestles used in construction are in ruins however. Four triangulation stations were searched for and a form 526 submitted for each; all roads were classified. Photos 7781 thru 7786 contain field edit notes.
52. ADEQUACY OF COMPILATION

Compilation was only fair even considering that there was no previous field inspection. Four triangulation stations were not plotted: AT, GRAHAM, GARDINER INTERNATIONAL PAPER CO. STACK, and THREE-MILE DIRECTIONAL LIGHT. U.S. HIGHWAY 101 bridge over the Umpqua River at Reedsport is a swing bridge, as indicated on chart 6004. Two stacks exist at Gardiner International Paper Co., one of them being a triangulation station; this stack is the taller and has been recommended for a landmark. Fourmile Light was mis-identified; see cronaflex print for correct location as determined by theodolite intersection. Channel Daybeacon "22" was not delineated or reported on the compiler-originated 76-40; it has been photo-identified and indexed. Roads and several large buildings in the area of Gardiner International Paper Co., have been delineated wrong or omitted; see photo 6866 for correct delineation. The railroad bridge at Reedsport contains 8 spans north of the swing span, not five as mapped; see photo 6860.

54. RECOMMENDATIONS

It is respectfully recommended that the paper ozalids should be printed with detail in black, as have been in the past, rather than blue. Violet ink used in field edit does not have as much contrast on the blue-printed ozalids.

56. GEOGRAPHIC NAMES

A specific geographic names investigation revealed no changes.

57. FIXED AIDS TO NAVIGATION AND LANDMARKS

Fourteen aids to navigation appear on this map; eight were office identified and field verified; three are triangulation and field recovered; two were located by theodolite intersection and one by sextant resection (also photo-identified).

Three Landmarks were recommended for charting; one triangulation and two office identified. Two landmarks were recommended for deletion.
61. **General Statement**

An unreviewed (Class I) copy of this map was furnished to charts and applied to chart 6004, Edition of 1972.

Objects identified as Corps of Engineers dredge signals by the field editor were not on this copy. These were recommended to be charted but not as landmarks.

62. **Comparison with Registered Topographic Surveys**

T-8952, July 1952, scale 1:10,000.

That portion which is covered by this sheet is superseded for charting with the following exceptions:

Dolphins at Lat. 43°41'20", Long. 124°11'00" and piling across mouth of cove at Lat. 43°41'25" Long. 124°10'10". These objects were not mentioned by the field editor and are not visible on the photography.

63. **Comparison with Maps of Other Agencies**

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

64. **Comparison with Contemporary Hydrographic Surveys**

H-9239, October-December 1971, scale 1:10,000.

Dolphins mentioned in Item 62. Hydrographer reported they no longer exist.

65. **Comparison with Nautical Charts**

Chart 6004, 38th ed. July 1974, scale 1:20,000

Examination indicates this sheet has been applied to Chart 6004. See Item 61 (General Statement). The pier at Lat. 43°40'35", Long 124°11'13" is not in ruins as shown.
66. Adequacy of Results and Future Surveys

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

Submitted by,

[Signature]

Frank A. Wright

Approved and forwarded:

[Signature]

Chief, Photogrammetric Branch

[Signature]

Chief, Coastal Mapping Division
# Nonfloating Aids or Landmarks for Charts

**Date:** 10/71  
**Locality:** Umpqua River, Oregon  
**State:** MD  
**Reporting Unit:** Rockville, MD

The following objects **HAVE** been inspected from seaward to determine their value as landmarks.  
(See reverse for responsible personnel)

## Charting Name and Description

<table>
<thead>
<tr>
<th>Charting Name</th>
<th>Description</th>
<th>Datum</th>
<th>Position</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Office</th>
<th>Field</th>
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</thead>
<tbody>
<tr>
<td>Jetty LIGHT 2A</td>
<td>Umpqua River</td>
<td>N.A. 1927</td>
<td>43 40</td>
<td>1.17</td>
<td>27.41</td>
<td>D.M.</td>
<td>6004</td>
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<td>Turn Lt. 4, 1966</td>
<td>F-3-6-L</td>
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<td>614.0</td>
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<td>Triang. Rec.</td>
<td>8.53</td>
<td>58.19</td>
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<td>Salmon Harbor Entrance-LT.2</td>
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<td>262.3</td>
<td>1301.3</td>
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<td>43 40</td>
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<td>43 40</td>
<td>812.0</td>
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</tbody>
</table>
**Field Positions are determined by field observer.**

8-12-75

**Example**: F-2-6-L

**Location and date of field work.**

4. Resection
3. Intersection
2. Traverse
1. Triangulation

**6. Photogrammetric**

V. Visually
L. Located
F. Field
P. Photogrammetric

**Field Positions determined on field.**

8-12-75

**Example**: 25EC1062

**Office** Identify and locate the object,

day, year (of the photograph used to
enter number and date (including month),

1. Office Identified and Located Objects

### Instructions for Entries Under Method and Date of Location

<table>
<thead>
<tr>
<th>Activities and Review Group and Final Review</th>
<th>Forms Organized by Quality Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ] Quality Control and Review Group Review</td>
<td>[ ] Positions determined and/or verified</td>
</tr>
</tbody>
</table>

### Office Activity Representative

- K.E. Katzing +
- R.P. Hettig L770

### Other (Attach)

- Acquisition Party
- Hydrographic Party
- Photo Field Party

### Responsible Personnel

<table>
<thead>
<tr>
<th>Name</th>
<th>Action</th>
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### Field (cont'd)

**Conduct Photogrammetric Investigations No. 6.**

<table>
<thead>
<tr>
<th>Activity Representative</th>
<th>Field Activity Representative</th>
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</thead>
<tbody>
<tr>
<td>[ ] Q. Kensing</td>
<td>[ ] G. Hettig</td>
</tr>
</tbody>
</table>

**Note:**

- Existing stock should be destroyed upon receipt of notification.
- Supersedes NOAA Form 74-60-1171 which is obsolete. And