
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey: Planimetric (Photogrammetric)
Field No.: Ph-155 Office No.: T-10363

LOCALITY
State: Oregon
General locality: Columbia River
Locality: John Day Point

1955-1958
CHIEF OF PARTY
V. Ralph Sobiersalski, Chief of Party
Lorne G. Taylor, Photogrammetric Office

LIBRARY & ARCHIVES
DATE: MAY 1962
**DESCRIPTIVE REPORT - DATA RECORD**

**T - 10363**

Project No. (II): Ph-155  
Quadrangle Name (IV):  

Field Office (II): Astoria, Oregon  
Photogrammetric Office (III): Portland, Oregon  

Chief of Party: V. Ralph Sobiersalski  
Unit Chief: W. P. James, C. D. Upham  
Officer-In-Charge: Lorne G. Taylor  

Instructions dated (II) (III):  
5 Oct. 1955  
12 Oct. 1955  
3 July 1957  

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Kelsh Stereoscopic Instrument  

Manuscript Scale (III): 1:10,000  
Stereoscopic Plotting Instrument Scale (III): 1:5000  
Pantograph Scale: 1:10,000  

Date received in Washington Office (IV):  
Date reported to Nautical Chart Branch (IV):  

Applied to Chart No.  
Date:  
Date registered (IV): 3/27/62  

Publication Scale (IV):  
Publication date (IV):  

Geographic Datum (III): N.A. 1927  
Vertical Datum (III): Mean sea level except as follows:  
Elevations shown as (+) refer to mean high water  
Elevations shown as (-) refer to sounding datum  
i.e., mean low water or mean lower low water  

Reference Station (III): LANGVIEW, 1947  

Lat.: 46° 10' 13.790"  
Long.: 123° 43' 02.939"  

Adjusted X  
Unadjusted  

Plane Coordinates (IV):  
State: Oregon  
Zone: North  

Y = 929,104.22  
X = 1,184,962.44  

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,  
or (IV) Washington Office.  
When entering names of personnel on this record give the surname and initials, not initials only.
Areas contoured by various personnel
(Show name within area)
(II) (III)
## DESCRIPTIVE REPORT - DATA RECORD

### Field Inspection by (II):
- C. D. Upham & E. T. Jenkins
- W. P. James & C. H. Bishop
  - Date: Sept. 1957
  - Date: Oct. 1958

### Planetable contouring by (II):
- Date: 

### Completion Surveys by (II):
- Date: 

### Mean High Water Location (III) (State date and method of location):
- Sept. 1957 by field inspection and compilation by Keish Instrument.

### Projection and Grids ruled by (IV):
- J. B. Phillips
  - Date: 9-3-57

### Projection and Grids checked by (IV):
- J. B. Phillips
  - Date: 9-3-57

### Control plotted by (III):
- D. N. Williams
  - Date: 11-20-57

### Control checked by (III):
- L. L. Graves
  - Date: 11-20-57

### Radial Plot or Stereoscopic Control extension by (III):
- John D. Perrow, Jr.
  - Date: 10-28-57

### Stereoscopic Instrument compilation (III):
- D. N. Williams
  - Date: 2-18-59
  - Contours

### Manuscript delineated by (III):
- D. N. Williams, Scribing
- C. C. Harris, Stick-up
  - Date: 3-28-60
  - Date: 4-24-60

### Photogrammetric Office Review by (III):
- J. E. Deal
  - Date: 8-30-60

### Elevations on Manuscript checked by (II) (III):
- Date: 

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COMDT-DC: 57842
**DESCRIPTIVE REPORT - DATA RECORD**

**Camera (kind or source) (III):** C&GS Single lens

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<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<td>6-6-55</td>
<td>10:58</td>
<td>1:10,000 ratio</td>
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<td>thru 8590</td>
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<td>55-W-8606</td>
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<td>&amp; 9774</td>
<td>9-24-55</td>
<td>11:45</td>
<td>1:25,000 contact</td>
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<td>&amp; 9793</td>
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**Tide (III)**

Reference Station: Astoria, (Tongue Point) Oregon
Subordinate Station: Settlers Point, Oregon

<table>
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<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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<tr>
<td></td>
<td>6.5</td>
<td>8.2</td>
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<td></td>
<td>6.2</td>
<td>7.7</td>
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**Washington Office Review by (IV):**

Date:

**Final Drafting by (IV):**

Date:

**Drafting verified for reproduction by (IV):**

Date:

**Proof Edit by (IV):**

Date:

**Land Area (Sq. Statute Miles) (III):** 10

**Shoreline (More than 200 meters to opposite shore) (III):** 17

**Shoreline (Less than 200 meters to opposite shore) (III):** 3

**Control Leveling - Miles (II):**

**Number of Triangulation Stations searched for (II):** 5 Recovered: 3 Identified: 2

**Number of BMs searched for (II):** None Recovered: Identified:

**Number of Recoverable Photo Stations established (III):** None

**Number of Temporary Photo Hydro Stations established (III):** None

**Remarks:**
FIELD INSPECTION REPORT

Map Manuscript T-10363

Project Ph-155

Refer to Field Inspection Report for Project Ph-155, Mouth of Columbia River to Altoona, July to November 1957. (T-10649)
PHOTOMETRIC PLOT REPORT

Map Manuscript T-10363

Project Ph-155

Refer to the Stereoplanigraph Bridge Reports for Strips

#1 and #2 which are included in the Descriptive Report for

T-10352 (1957).
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
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<td>FORWARD (BACK)</td>
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<td>N.A.</td>
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<td>4104.22 (895.78)</td>
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<td>929,007.47</td>
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<td>33.8 (1490.2)</td>
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<td>928,483.72</td>
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<td>(ORE) 1934</td>
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<td>682.6 (841.4)</td>
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<td>(831.7)</td>
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<tr>
<td>JOHN DAY 2 (OREG)</td>
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<td>1947</td>
<td>46 10 52.726</td>
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<td>G-7284 P-1021</td>
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<td>123 44 18.542</td>
<td>397.7 (889.2)</td>
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1 FT = 0.3048006 METER

COMPILATION REPORT

Map Manuscript T-10363

Project Ph-155

Items 31 and 32:

Refer to Descriptive Report for T-10361 (1957).

33. Supplemental Data:

None.

34. Contours and Drainage:

Contours are not applicable.

Drainage was field inspected and verified during the Kelsh compilation assisted by reference to the U.S.G.S. 7.5 minute Cathlamet Bay, Oreg. quadrangle.

Items 35 and 36:

Refer to Descriptive Report for T-10361 (1957).

37. Landmarks and Aids:

None.

38. Control for Future Surveys:

None.
39. **Junctions:**

Satisfactory junctions were made with T-10357 on the north, T-10362 on the west and T-10364 on the east. There is no contemporary survey to the south.

40. **Horizontal and Vertical Accuracy:**

Vertical accuracy is not applicable. There are no areas that are believed to be of sub-normal accuracy.

46. **Comparison with Existing Maps:**

Comparison was made with U.S.G.S. 7½ minute Cathlamet Bay, Creg. quadrangle, Scale 1:24,000, published in 1949.

47. **Comparison with Nautical Charts:**


**Items to be Applied to Nautical Charts Immediately.**

None.

**Items to be Carried Forward:**

None.

Approved: [Signature]

Respectfully submitted:

[Signature]

Fred Natella, CAPT, C&GS
Portland District Officer
for
Lorne G. Taylor, CDR, C&GS

J. Edward Deal
Cartographer
Map Manuscript T-10363

49. Notes to the Hydrographer:

No recoverable topographic stations were located.

The triangulation stations shown were recovered and identified during field inspection.
48. Geographic Names:

Cathlamet Bay
*Fern Hill
John Day Point
John Day River
South Channel
Spokane, Portland and Seattle Railway
Wallsaki River

* B.G.N. Decision

[Signature]
Geographic Names Section
26 January 1962
REVIEW REPORT
T-10352 through 10364 and T-10650
Planimetric December 18, 1961

62. **Comparison with Registered Topographic Surveys**

<table>
<thead>
<tr>
<th>Map No.</th>
<th>Scale</th>
<th>Year</th>
<th>Map No.</th>
<th>Scale</th>
<th>Year</th>
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<td>1850-51</td>
<td>1806</td>
<td>1:10,000</td>
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<td>1868</td>
<td>4226</td>
<td>1:20,000</td>
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<td>1123</td>
<td>1868</td>
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<td>4250</td>
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<td>1138</td>
<td>1869</td>
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<td>1139a&amp;b</td>
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<td>1870</td>
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<td>6521b</td>
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<td>1936</td>
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</table>

The manuscripts covered by this review report supersede the surveys listed above for purposes of nautical chart construction.

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

Comparison was made with the latest existing maps during the photogrammetric review. Each report lists under "Comparison with Maps, etc." the quadrangles that were used.

64. **Comparison with Contemporary Hydrographic Surveys**

Where applicable, each map was compared with the latest hydrographic survey. All available hydrographic surveys are unverified. Discrepancies are listed under the heading of each map. If the map is not listed, no discrepancies exist during review.

**T-10352** - The submerged rocks shown on the manuscript which appear to once have been part of the jetty were compiled in the photogrammetric office from a U.S. Engineer Survey dated 1956. This feature was not developed by hydro on sheets H-8421 through H-8423. See the Descriptive Report for this survey for details.

**T-10354** - A pile is shown on the manuscript above MHW whereas hydro shows this pile submerged at latitude 46°14'37" and longitude 123°55'16". The pile was field inspected.

**T-10356** - A rock is shown on the manuscript as awash MHW and on hydro sheet H-8420 as (4) with a position difference of approximately 5 meters. The rock is located at latitude 46°12'45" and longitude 123°45'18". The height of the rock was given by the field inspector.
T-10357 - Piles and/or shags shown on Chart 6151 in the vicinity of latitude 46°13'30" and longitude 123°42'30" and latitude 46°12'30" and longitude 123°42'30" are not shown on the unverified smooth sheet. They are too far offshore for photogrammetric location.

65. **Comparison with Nautical Charts**

Comparison was made with Charts 6151 and 6152, 34 Edition October 10, 1960 corrected June 26, 1961. Nautical Charts did not use these surveys for the construction of the new edition. Many minor changes in offshore features and planimetric detail were noted. Only dangers to navigation or significant changes in detail have been noted for each sheet.

T-10354 - Some differences were noted in; shoreline features in the vicinity of Hammond at latitude 46°11'30" longitude 123°55'00". The pile area in the vicinity of latitude 46°12'30", longitude 123°52'30" is incomplete. It is a shoal area and of no danger to navigation.

T-10361 - A difference exists in the position of a shag at latitude 46°11'03" and longitude 123°51'46" in Youngs Bay. Landmark "Drum" should be deleted from Chart as recommended on Form 567.

66. **Adequacy of Results and Future Surveys**

These maps comply with instructions and meet National Standards of Map Accuracy.

Respectfully submitted:

[Signature]

A. K.Heywood

Approved: [Signature]

K. Landy
Chief, Review and Edit Sec.

[Signature]

Chief, Div. of Nautical Charts

[Signature]

Chief, Div. of Photogrammetry

[Signature]

Chief, Div. of Coastal Surveys Operations
NAUTICAL CHARTS BRANCH

SURVEY NO. T-10363

Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Before After Verification and Review</td>
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</table>

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.