
**Form 504**

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Planimetric (Photogrammetric)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>Ph-155</td>
</tr>
<tr>
<td>Office No.</td>
<td>T-10341</td>
</tr>
</tbody>
</table>

**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>Washington</th>
</tr>
</thead>
<tbody>
<tr>
<td>General locality</td>
<td>Columbia River</td>
</tr>
<tr>
<td>Locality</td>
<td>Bear River</td>
</tr>
</tbody>
</table>

**CHIEF OF PARTY**

V. Ralph Sobieralski, Chief of Party  
Lorne G. Taylor, Photogrammetric Office

**LIBRARY & ARCHIVES**

**DATE**  
MAY 1 1962
DESCRIPTIVE REPORT - DATA RECORD

T = 10341

Project No. (II): Ph-155

Field Office (II): Seaview, Washington
Photogrammetric Office (III): Portland, Oregon

Chief of Party: V. Ralph Sobierski
Unit Chief: R. B. Melby
Officer-in-Charge: Lorne G. Taylor

Instructions dated (II) (III):
5 Oct. 1955
12 Oct. 1955 II & III
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

Scale Factor (III):

Date received in Washington Office (IV): JUL 28 1951
Date reported to Nautical Chart Branch (IV): 3/5/62

Published in Chart No.:

Date: Date registered (IV): 3/5/62

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (2) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): TANGENT (USB) 1939

Lat.: 46° 20' 56.901"
Long.: 123° 57' 16.331"
Adjusted X
Unadjusted

Plane Coordinates (IV):
State: Washington Zone: South

Y = 389,524.65
X = 1,127,907.60

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)

(I) (II) (III)
Field Inspection by (II): R. B. Melby  
Date: Sept.–Oct. 1957

Planetable contouring by (II):  
Date:

Completion Surveys by (II):  
Date:

Mean High Water Location (III) (State date and method of location): Oct. 1957 by field inspection and compilation by Kelsh Instrument.

Projection and Grids ruled by (IV): J. R. Haskins  
Date: 11–20–57

Projection and Grids checked by (IV): I. V. Fitzgerald  
Date: 11–20–57

Control plotted by (III): D. N. Williams  
Date: 3–3–58

Control checked by (III): L. L. Graves  
Date: 3–3–58

Radial Plot or Stereoscopic Control extension by (III): John D. Perrow, Jr.  
Date: Nov. 1957

Stereoscopic Instrument compilation (III):  
Planimetry D. N. Williams  
Date: 8–1–58

Contours  
Date:

Manuscript delineated by (III): L. L. Graves, Scribing  
C. C. Harris, Stick-up  
Date: 10–13–58  
6–8–60

Photogrammetric Office Review by (III): J. E. Deal  
Date: Sept. 1960

Elevations on Manuscript checked by (II) (III):  
Date:
DESRIPTIVE REPORT - DATA RECORD

PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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</thead>
<tbody>
<tr>
<td>55 W 9909</td>
<td>9-24-55</td>
<td>13:27</td>
<td>1:25,000</td>
<td>3.0 above M.L.L.W.</td>
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<tr>
<td>&amp; 9910</td>
<td></td>
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Aberdeen, Wn. for Subordinate Sta.

Willapa Bay Tarlatt Slough 2.1 ft. above M.L.L.W.

Tide (III)

<table>
<thead>
<tr>
<th>Reference Station:</th>
<th>Ilwaco, Baker Bay, Washington</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subordinate Station:</td>
<td></td>
</tr>
<tr>
<td>Subordinate Station:</td>
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</tr>
</tbody>
</table>

Washington Office Review by (IV): [Signature]

Final Drafting by (IV): [Signature]

Drafting verified for reproduction by (IV): [Signature]

Proof Edit by (IV): [Signature]

Land Area (Sq. Statute Miles) (III): 12
Shoreline (More than 200 meters to opposite shore) (III): 8
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 6 Recovered: 4 Identified: 3
Number of BMs searched for (II): 0 Recovered: 0 Identified: 0
Number of Recoverable Photo Stations established (III): 0
Number of Temporary Photo Hydro Stations established (III): 0

Remarks:
FIELD INSPECTION REPORT

Map Manuscript T-10341

Project Ph-155

Refer to Field Inspection Report for Project Ph-155, "Mouth of Columbia River to Altoona", July 1957 to November 1957.
PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10341

Project Ph-155

Refer to the Photogrammetric Plot Report for Strips 7A and 8A which is included in the Descriptive Report for T-10340 (1957).
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y-COORDINATE</th>
<th>LONGITUDE OR X-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS (FORWARD)</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE IN METERS (BACK)</th>
<th>DATUM CORRECTION (FORWARD)</th>
<th>DATUM CORRECTION (BACK)</th>
<th>N.A. 1927-DATUM FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS (FORWARD)</th>
<th>N.A. 1927-DATUM FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS (BACK)</th>
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<tr>
<td>TANGENT (USE)</td>
<td>Wash.S. Pg.156</td>
<td>N.A. 1927</td>
<td>389,524.65</td>
<td>1,127,907.60</td>
<td>4524.65 (475.35)</td>
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<td>1379.1 (144.9)</td>
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<td>3309.91</td>
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<td>1008.9 (515.1)</td>
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<tr>
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<td>Comp.</td>
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<td>STOUT 2, 1939</td>
<td>Wash.S. Pg.156</td>
<td>II</td>
<td>399,260.09</td>
<td>1,126,037.32</td>
<td>4260.09 (739.91)</td>
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<td>309.4 (1214.6)</td>
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<td>GROUSE, 1957</td>
<td>Wash.S. Office</td>
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<td>390,278.13</td>
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<td>278.13 (4721.87)</td>
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<td>94.7 (1429.3)</td>
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<td>Sub Station</td>
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</table>

1 FT. = 0.00833 METER

COMPUTED BY: J.E.D.  DATE: 10-31-57  CHECKED BY: J.L.H.  DATE: 11-1-57
COMPILATION REPORT

Map Manuscript T-10341

Project Ph-155

Items 31, 32 and 33:

Refer to Descriptive Report for T-10340 (1957).

34. Contours and Drainage:

Contours are not applicable.

For the most part drainage was field inspected. Drainage not field inspected was interpreted in the compilation office assisted by reference to the Chinook, Wash. - Oreg. 7½ minute U.S.G.S. quadrangle.

35. Shoreline and Alongshore Details:

These features were adequately field inspected and no trouble was encountered during the compilation work.

Low-water lines were not determined.

Foreshore areas were compiled in Bear River and Willapa Bay.

36. Offshore Details:

None.

37. Landmarks and Aids:

None.

38. Control for Future Surveys:

None.

39. Junctions:

Satisfactory junctions were made with T-10340 on the west and T-10346 on the south. There are no contemporary surveys to the north and east.

40. Horizontal and Vertical Control:

Vertical accuracy is not applicable. There are no areas believed to be of sub-normal horizontal accuracy.
46. **Comparison with Existing Maps:**

Comparison was made with U.S.G.S. 7½ minute, Chinook, Wash. - Oreg. quadrangle, Scale 1:24,000, Published 1949.

47. **Comparison with Nautical Charts:**


Items to be Applied to Nautical Charts Immediately.

None.

Items to be Carried Forward.

None.

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Approved:  

[Signature]

J. Edward Deal

Respectfully submitted:

[Signature]

Fred Natella, CAPT, C&GS  

J. Edward Deal

Portland District Officer  

Cartographer

for

Lorne G. Taylor, CDR, C&GS
48. **Geographic Names:**

Geographic names were obtained from a final name sheet furnished by the Washington Office and indicated on a copy of U.S.G.S. 7½ minute Chinook, Wash. - Oreg. quadrangle.

Bear River
Greenhead Slough
Wallacut River
Willapa Bay
Map Manuscript T-10341

49. Notes to the Hydrographer:

No recoverable topographic stations were located.

The triangulation stations shown were recovered and identified during field inspection.
PHOTOGRAMMETRIC OFFICE REVIEW

T. 103 41

1. Projection and grids  
2. Title  
3. Manuscript numbers  
4. Manuscript size  

CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy  
6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)  
7. Photo hydro stations  
8. Bench marks  
9. Plotting of sextant fixes  
10. Photogrammetric plot report  
11. Detail points  

ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline  
13. Low-water line  
14. Rocks, shoals, etc.  
15. Bridges  
16. Aids to navigation  
17. Landmarks  
18. Other alongshore physical features  
19. Other alongshore cultural features  

PHYSICAL FEATURES
20. Water features  
21. Natural ground cover  
22. Planetary contours  
23. Stereoscopic instrument contours  
24. Contours in general  
25. Spot elevations  
26. Other physical features  

CULTURAL FEATURES
27. Roads  
28. Buildings  
29. Railroads  
30. Other cultural features  

BOUNDARIES
31. Boundary lines  
32. Public land lines  

MISCELLANEOUS
33. Geographic names  
34. Junctions  
35. Legibility of the manuscript  
36. Discrepancy overlay  
37. Descriptive Report  
38. Field inspection photographs  
39. Forms  

Reviewer  
Supervisor, Review Section or Unit  

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler  
Supervisor  

43. Remarks:
48. Geographic Names:

Bear River
Greenhead Slough
*Shoalwater Bay
*Wallacut River

* B.G.N. Decision

George S. Baca
Geographic Names Section
13 February 1962
REVIEW REPORT
T-10340 through T-10351 and T-10649
Planimetric
February 21, 1962

62. **Comparison with Registered Topographic Surveys:**

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
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<tbody>
<tr>
<td>E-240</td>
<td>836,000</td>
<td>1850</td>
<td>1341b</td>
<td>10,000</td>
<td>1873</td>
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<tr>
<td>317</td>
<td>22,762</td>
<td>1850-51</td>
<td>1342a</td>
<td>10,000</td>
<td>1873</td>
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<td>E-334</td>
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<td>1852</td>
<td>1894</td>
<td>20,000</td>
<td>1889</td>
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<td>E-402</td>
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<td>1806</td>
<td>10,000</td>
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<td>1868</td>
<td>E-1930</td>
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<td>1870</td>
<td>6521b</td>
<td>10,000</td>
<td>1936</td>
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</tbody>
</table>

The manuscripts listed in this report supersede those surveys listed above for construction of nautical charts.

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

Comparison was made with all available maps during the photographic review. For specific details refer to the Compilation Report for each manuscript.

64. **Comparison with Contemporary Hydrographic Surveys:**

Hydrographic survey E-8416 (1958) covers the three most western sheets in the project T-10340, T-10344 and T-10649. Comparison between these three sheets and the hydro survey revealed no inconsistencies.

65. **Comparison with Nautical Charts:**

| 5002 | 1:180,789 | 10 Edition 1942 | 1/7/61 |
| 6151 | 1:140,000 | 3rd Edition 1960 | 1/7/61 |

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

These maps comply with instructions and meet National Standards of Map Accuracies except as detailed below.

Many offshore details such as fishtraps, lines of pile, etc. were shown on the manuscript and labeled P.D. (Position Doubtful). These features were not field inspected, being some distance offshore their accuracy may not be standard. They should be accurately positioned during hydrography.
Respectfully submitted:

A. K. Heywood

Approved:

L. C. Lande, Chief
Review and Edit Section

Maurice M. Parkin
Chief, Nautical Chart Div.

Chief, Div. of Photogrammetry

Chief, Coastal Surveys Div.
# Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
</table>
| 11/3/63 | G151 | GM | Before After Verification and Review  
  (Partially applied) (Exam only) |

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.