Diag. Cht. Nos. 5902-2,6002-2 & 6152.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Planimetric (Photogrammetric)

Field No. Ph-155

Office No. T-10351

LOCALITY

State Oregon - Washington

General locality Columbia River

Locality Harrington Point

1937.55- 458

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

MAY 1 1962

DATE

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T = 10351

Project No. (II): Ph-155

Quadrangle Name (IV):

Field Office (II): Seaview, Washington

Chief of Party: . V. Ralph Sobieralski

Unit Chief; R. B. Melby

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Lorne G. Taylor

Instructions dated (II) (III):

5 Oct. 1955)

Copy filed in Division of

12 Oct. 1955) II & III 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):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 3/5/6 2

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

N.A. 1927

Vertical Datum (III): X

Mean sea level except as follows: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III):

ROCKY POINT 2, 1913

Lat.:

460 151 37.226"

Long.:

1230 361 40,661"

Adjusted X

Unadjusted

Plane Coordinates (IV):

State: Washington

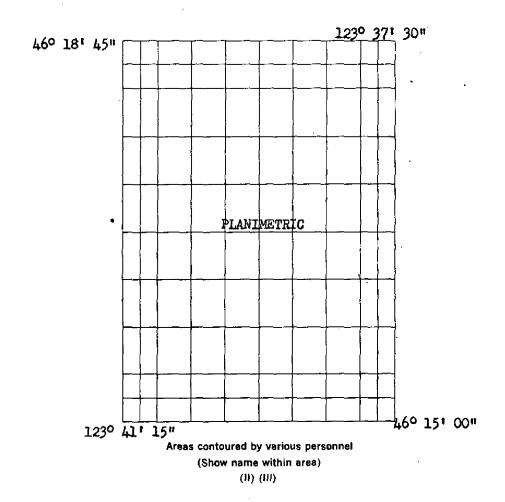
Zone: South

353,561.97

1,213,234.05

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.



DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II):

C. H. Bishop & R. B. Melby

Date: Nov. 1957

Planetable contouring by (II):

Date:

Completion Surveys by (II): Supplementary and

Date:

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

Projection and Grids ruled by (IV):

J. R. Haskins

Date: 10-30-57

Projection and Grids checked by (IV): I. Y. Fitzgerald

Date: 11-15-57

Control plotted by (III):

E. T. Jenkins

Date: 1-20-58

Control checked by (III):

J. L. Harris

Date: 1-21-58

Radial Plot or Stereoscopic Control extension by (III):

J. D. Perrow, Jr. Stereo. Control Date: 1-28-58

J. L. Harris, Radial Plot

2-13-59

Planimetry D. N. Williams

1-22-59 Date:

Stereoscopic Instrument compilation (III):

J. L. Harris

2-13-59

Contours

Date:

Manuscript delineated by (III):

J. L. Harris, Scribing C. C. Harris, Stick-up

4-10-59 Date: 6-14-60

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

Date: July 1960

Elevations on Manuscript

checked by (II) (III):

Date:

DESCRIPTIVE REPORT - DATA RECORD

USC&GS Single lens "W" Camera (kind or source) (III):

| | | PHOTOGRAPHS | (III) | |
|------------------------|---------|-------------|------------------|---------------------|
| Number | Date | Time | Scale | Stage of Tide |
| 55-W-8665 | | | | |
| & 8666 | 6-6-55 | 11:50 | 1:10,000 ratio | 2.71 above M.L.L.W. |
| 55-W - 8693 | | | • | |
| & 8694 | 11 | 12:10 | 1) | n |
| 55-W-9853 | | | | |
| & 9854 | 9-24-55 | 12:48 | 1:25,000 contact | 3.01 above M.L.L.W. |
| 55-W-9885 | | | • | |
| & 9886 | tı | 13:09 | D | ti |

Tide (III)

24

Recovered:

Recovered:

11

Reference Station:

Astoria, (Tongue Point) Oregon

Harrington Point, Wash. Subordinate Station:

Subordinate Station:

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

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

Shoreline (More than 200 meters to opposite shore) (III): 8 Shoreline (Less than 200 meters to opposite shore) (III): 0

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Number of BMs searched for (II): (Tidal)

Number of Recoverable Photo Stations established (III):

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

Remarks:

* Three are structures.

Diurnal Ratio of Mean Ranges Range Range

Date:

Date:

Date:

.ldentified: Identified:

PLANIMETRIC PROJECT PH 155

MOUTH OF COLUMBIA RIVER, WASH.-OREGON

| Nahcolia 1 1 201 1 1 301 1 1 1 301 |
|--|
| Ocean Park O |
| Klipsan Beach 2650 |
| 46°26′15° |
| 1980 |
| |
| 46°22′30″ 10049 |
| Long Beach Naselle O Deep River |
| Source |
| 10341 10342 OF Osburg |
| 10344 11waco 10846 10347 10348 10348 |
| Krisopton California |
| Cape Disappoin ment 10345 10349 10350 1035 |
| 10352 McGo Van Megler 10356 COLIMBIA |
| 10355 10357 10358 |
| Fort Ste association Association Bradwi |
| 1/10/1/19/04 |
| Warrento Top of Column Syensen |
| 46°07'30" 10359 110360 10361 10362 10363 10364 |
| Settlement |
| |
| 46° 03'45" 10690 2745 |
| 123*57 36 |
| Gearhart |
| Seaside 469 12 |
| 124° 00′ 123'45′ |
| 161 42 |

| SHEET 10340 10341 10342 10343 10344 10345 10346 10347 10348 10349 | | LEAGE FOR COS LIN.MI. SHOR LINE 9 8 4 7 6 13 11 3 | AREA SQ MILES 10 12 13 13 2 3 6 12 |
|---|---|---|---|
| 10350 10351 10352 10353 | · | 4 4 6 8 3 9 3 4 5 | 8 3 9 1 |
| 10354 10355 10356 10357 | | 3 4 5 8 | 4 1 2 5 1 |
| 10358 10359 10360 10361 10362 | | 21 5 14 15 | 3 6 11 9 |
| 10363 10364 | | .8 17 12 | 12 10 12 |
| 10649 10650 | | 8 _4_ | 8 8 |

219

193

TOTAL

FIELD INSPECTION REPORT Map Manuscript T-10351 Project Ph-155

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

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10351

Project Ph-155

Suggestions contained in the Stereoplanigraph Bridge Reports for Strips 5 and 6 were followed! These reports are included in the Descriptive Report for T-10346 (1957).

A small hand templet method radial plot was run using field photographs 55-W-8692 thru 8694 and 55-W-8664 thru 8666. Pass points were located which could also be identified on photographs 55-W-9853 thru 9855 and on 55-W-9885 and 9886. All of the compilation work was then done on the Kelsh Instrument.

Approved:

Respectfully submitted:

Fred Natella, CAPT, C&GS Portland District Officer

Lorne G. Tayler, CDR, C&GS

J. Edward Deal Cartographer

U.S. DEPARTMENT OF COMMERCE.

TROL RECORD DESCRIPTIVE REPORT

ST AND GEODETIC SURVEY

COMM- DC- 57843 DISTANCE FROM GAID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS (BACK) None FORWARD DATE 10-16-57 SCALE FACTOR 438.3) (1232.4)376.9) 538.3) 542,1) 783.4) 304.0) (1031.6)419.6) 423.4) 304.5) (1088.5)(1784.7)(12333) 595.6) (1786.2)249.8) 118.2) 722,4) 749.6) N.A. 1927-DATUM ಠ FORWARD 740.6 435.5 562.6 253.3 864.9 985.7 981.9 291.6 62.6 77.6 7.99 774.4 1220.0 1219.5 1257.0 1602,8 1405.8 1100.6 1147.1 1085.7 DATUM 1947 SCALE OF MAP 1:10,000 D.N.W. OR PROJECTION LINE IN METERS Same as Harrington Pt. Range Front Lt., DISTANCE FROM GRID IN FEET. (4043.15)(2570,07) 999.12) (1438.03)(1389.26) (1778,66)(1236.57)(2459.35) 387,79) (1765.95)997.43) (3571.12) 3763.43 4000,88 1428.88 2540.65 956.85 4002.57 4612.21 3561.97 3234.05 3610.74 3221,34 24.29.93 LONGITUDE OR * COORDINATE LATITUDE OR y-COORDINATE 46 16 02,200 03.344 04.04 26.27 11.83 40.71 26.27 02,15 51.91 40.77 354,002.57 353,763,43 1,201,428,88 352,540.65 353,561.97 1,213,234.05 353,610,74 355,956.85 1,202,429.93 1,199,000.88 1,219,612,21 213,221,34 PROJECT NO. Ph-155 3 15 38 38 33 15 16 15 37 DATE 10-7-57 133 9 9 123 9 133 123 123 DATUM N.A. 1927 Ħ = ± Ħ = = # = = E SOURCE OF Wash.S. Wash.S. Wash, S. Wash, S. G-3423 (INDEX) Office P-335 Field 237 Comp. Comp 8 4 × = = SOUTH GABLE, 1913 193 COMPUTED BY: J.E.D. (WASH), 1958 MILLER SANDS UPPER RANCE, REAR, 1958 HARRINGTON POINT 1913 PILLAR ROCK LOWER MAP T. 10351. FRONT LIGHT, 1958 PILLAR ROCK LOWER REAR LIGHT FRONT RANGE LIGHT 1947 FILLAR ROCK RANGE LIGHT, 1947 PILLAR ROCK LIGHT RANGE REAR LIGHT RANGE REAR LIGHT HARRINGTON POINT HARRINGTON (USE) ALTOONA CANNERY 1 FT = 3048006 METER MAIN BUILDING CHANNEL FRONT 1958 STATION 1958 ď MILLER SANDS 1913 UPPER RANGE 1935 Sub Station 돲 8 (MASH) RANGE, (HSAW ROCKY

CHECKED BY:....

FORM **164** (4-23-54)

COMPILATION REPORT

Map Manuscript T-10351

Project Ph-155

31. Delineation:

The Kelsh Instrument was used to compile the planimetry.

Field inspection was adequate.

32. Control:

The identified horizontal control stations and the pass points located by radial plot were adequate to control the orientation of the Kelsh models.

33. Supplemental Data:

Oregon Senate Bill No. 1 Chapter 94 O.L. 1957.

34. Contours and Drainage:

Contours are not applicable.

Drainage was spot field inspected. The drainage was discernable on the photographs and was compiled by office delineation using the U.S.G.S. Rosburg, Wash - Oreg. 72 minute quadrangle as reference.

35. Shoreline and Alongshore Details:

Field inspection of these features was adequate and no difficulties were encountered.

Foreshore areas are shown.

Approximate low-water lines could not be determined from the photographs.

36. Offshore Details:

Offshore details include numerous piling and the approximate limits of mud flat islands which bare during low tides.

37. Landmarks and Aids:

There are no landmarks.

Form 567, which is in agreement with 1961 Pacific Coast Light List, is submitted for aids to navigation.

Refer to discrepancy overlay.

38. Control for Future Surveys:

Form 524 is submitted for one monumented recoverable topographic station. Three structures were also located. All are listed under Item 49, Notes to the Hydrographer.

39. Junctions:

Satisfactory junctions were made with T-10343 on the north, T-10350 on the west and T-10538 on the south. On the east a junction was made with T-9266, Project Ph-50 (1949). At this junction the shoreline and alongshore details on the north shore of the Columbia River of T-10351 superdede the shoreline and alongshore details of T-9266 between 131 meters east of Longitude 123° 37' 30" and Longitude 123° 40'. Refer to the Discrepancy Overlay for T-10351 which is submitted.

40. Horizontal and Vertical Accuracy:

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. $7\frac{1}{2}$ minute Rosburg, Wash - Oreg. quadrangle, Scale 1:24,000, published 1949.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 6151, Scale 1:60,000, 34th Edition Oct. 10, 1960, Corrected through Jan. 7, 1961 and Nautical Chart No. 6002, Scale 1:180,789, 10th Edition July 9, 1942, Revised May 23, 1960, Corrected through Jan. 7, 1961.

Items to be Applied to Nautical Charts Immediately:

None.

Items to be Carried Forward:

None.

Approved:

red Natella, CAPT, C&GS Portland District Officer

for

Lorne G. Taylor, CDR, C&GS

Respectfully submitted:

J. Edward Deal Cartographer

49. Notes to the Hydrographer:

One recoverable topographic station was located by Kelsh instrument methods.

B-317-11 (USE)(1939), 1957

There are numerous fixed aids to navigation which have triangulation positions. These were recovered and identified during field inspection.

Three structures were located.

NORT, 1957 (northwest gable of barn)
Harrington Point South Dredging Range Front Daybeacon, 1957
Harrington Point South Dredging Range Rear Daybeacon, 1957

1

PHOTOGRAMMETRIC OFFICE REVIEW T- 10351

| 1. Projection and grids | _ |
|---|--------|
| CONTROL STATIONS | |
| 5. Horizontal control stations of third-order or higher accuracy6. Recoverable horizontal stations of I | ess |
| than third-order accuracy (topographic stations)7. Photo hydro stations Note 8. Bench marks | _ |
| 9. Plotting of sextant fixes Note: 10. Photogrammetric plot report 11. Detail points | |
| ALONGSHORE AREAS | |
| (Nautical Chart Data) | |
| 12. Shoreline13. Low-water line14. Rocks, shoals, etc15. Bridges Note 16. A to navigation17. Landmarks Note 18. Other alongshore physical features19. Other alongshore | ids |
| to navigation17. Landmarks Nove 18. Other alongshore physical features19. Other along | g – |
| shore cultural features | |
| | |
| PHYSICAL FEATURES | |
| 20. Water features 21. Natural ground cover 22. Planetable contours ZOL 23. Stereosco | pic |
| 20. Water features 21. Natural ground cover 22. Planetable contours 23. Stereosco instrument contours 24. Contours in general 25. Spot elevations 26. Other physical part = 27. | ical |
| features | |
| | |
| CULTURAL FEATURES | |
| CULTURAL FEATURES 27. Roads 28. Buildings 29. Railroads 30. Other cultural features | |
| | |
| BOUNDARIES | |
| 31. Boundary lines 32. Public land lines | |
| AMODELA AMEDIA | |
| MISCELLANEOUS 33. Geographic names 34. Junctions 35. Legibility of the manuscript 36. Discrepanged in the manuscript 36. Discrepanged in the manuscript 36. | |
| | - |
| overlay 37. Descriptive Report 38. Field inspection photographs 39. Forms 40 | - P |
| Reviewer Supervisor, Review Section or Unit | 9 |
| 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. I manuscript is now complete except as noted under item 43. | he |
| Compiler Supervisor | _ |
| 43. Remarks: M-2623 | -12 |

48. Geographic Names:

Altoona
Altoona Hill
Carlson Landing
Clatsop County
Columbia River
Cottardi
Crooked Creek
Devils Elbow
Eden Vallley
Grays Bay
Grays River
Harrington Point
Hitchcock Creek
Miller Sands Channel
Pigeon Bluff
Wahkiakum County

eographic Names Section 13 February 1962

U.S DEPARTMENT OF COMMERCE COAST AND CODETIC SURVEY



NONFLOATING AIDS CHEXINEGING FOR CHARTS

| STRIKE OUT TWO |
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Fertland, Oragon

19 61

I recommend that the following objects which have (highertrant) been inspected from seaward to determine their value as landmarks be charted on (material and the charts indicated.

The positions given have been checked after listing by

| P. 4 7 9 | WASHIROTH A CIRCLE | | | | POSITION |] - - | | МЕТНОВ | - | | TRAH: |
|----------|---|----------------|----------|-------------------|----------|----------------------|--------------|----------|----------|-------|---------------|
| | | | אַ | LATITUDE * | LONG | LONGITUDE | | LOCATION | | | CHARTS |
| CHARTING | DESCRIPTION | BIGNAL | • | D. M. METERS | • | D. P. METERS | DATUM | | LOCATION | DHSNI | |
| LIGHT | Harrington Point Sangs Front Light | £ 1033 | \$1 99 | 35.981 | ०५ द्धा | 03.325 | 8.A. | Triang- | 1947 | H | 1519 |
| LICHT | Sarrington Point Range Reat Light | at 1039 | 97 99 | 02,1466 | 123 39 | 11.6937 | 8 | | 1958 | × | |
| LIGHT | Willer Sends Upper Renge Front Light | 1036.5 | 46 15 | 1257.0 | 123 38 | 56.257 | • | * | | × | |
| LICHER | Allor Sends Upper Hange Bear Light | 1035.6 | \$6 15 | | 123 37 | 37 865.1 | • | te | 8 | × | • |
| LIGHT | Front Light | 2063 | Front Re | Range 1cht | | 1967 (Remel in 1950) | 1 1161& 2 | ((0501 1 | | | |
| LICHT | Mear Light Lower Hauge | 1044 | Ca ser | sare structure as | 11 to 0. | £1032. | | | | - 1 | |
| | | | · | | | , | - | | | | - |
| | ************************************** | it was rebuilt | | have not le | located | | | | | - | |
| | | | | • | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

REVIEW REPORT T-10340 through T-10351 and T-10649 Planimetric February 21, 1962

62. Comparison with Registered Topographic Surveys:

| Survey | Scale | Date | Survey | Scale | Date |
|---------|---------|---------|--------|--------|------|
| H-240 | 836,000 | 1850 | 1341b | 10,000 | 1873 |
| 317 | 22,762 | 1850-51 | 1342a | 10,000 | 1873 |
| H-334 | 221,360 | 1852 | 1894 | 20,000 | 1889 |
| H-402 | • • | • | 1806 | 10,000 | 1887 |
| 1123 | 10,000 | 1868 | H-1930 | 10,000 | 1889 |
| 1138 | 10,000 | 1869 | 4251 | 20,000 | 1926 |
| 1139a&b | 10,000 | 1869 | 6724ab | 10,000 | 1936 |
| 1234 | 10,000 | 1870 | 6725ab | 10,000 | 1936 |
| 1249 | 10,000 | 1870 | 6521b | 10,000 | 1936 |

The manuscripts listed in this report supersede those surveys listed above for construction of neutical 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 H-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 inconsistances.

65. Comparison with Mautical Charts:

6002 1:180,789 10 Edition 1942 1/7/61 6151 1:40,000 34 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 Marviell Sauban

Chief, Nautical Chart Div.

thier, piv. of Photogrammetry

Chier, Constate Survey Die.

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10351

Record of Application to Charts

| DATE | CHART | CARTOGRAPHER | REMARKS |
|----------|-------|------------------|---|
| 6-4-62 | 6/52 | J.W. Pailey | Before After Verification and Review Partly applied |
| 11/14/63 | 6152 | Harold V. Howard | Before After Verification and Review Application Ackquate |
| 9127174 | 6151 | J Green | Before After Verification and Review Shoreline applied |
| | | | Before After Verification and Review |
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M-2168-1

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.