

11633

Diag. Cht. No. 6450-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph-5905 Office No. T-11633

LOCALITY

State Washington

General locality Whidbey Island

Locality Deer Lake

1960-1961

CHIEF OF PARTY

Fred Natella

LIBRARY & ARCHIVES

DATE April 1964

USCOMM-DC 5087

11633

DESCRIPTIVE REPORT - DATA RECORD

T - 11633

Project No. (II): Ph-5905 Quadrangle Name (IV):

Field Office (II): Mt. Vernon, Washington

Chief of Party: Lorne G. Taylor

Unit Chief: L. F. Van Scoy

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Fred Natella

Instructions dated (II) (III): 10 Feb. 1960 II

Copy filed in Division of
Photogrammetry (IV)

Supplemental: 5 May 1960 II & III

Method of Compilation (III): Kelsh Stereoscopic Instrument

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6000

Pantograph Scale: 1:10,000

Scale Factor (III): None

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows: X
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): GLENDALE, 1954

Lat.: 47° 57' 21.044"

Long.: 122° 22' 41.889"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Washington

Zone: North

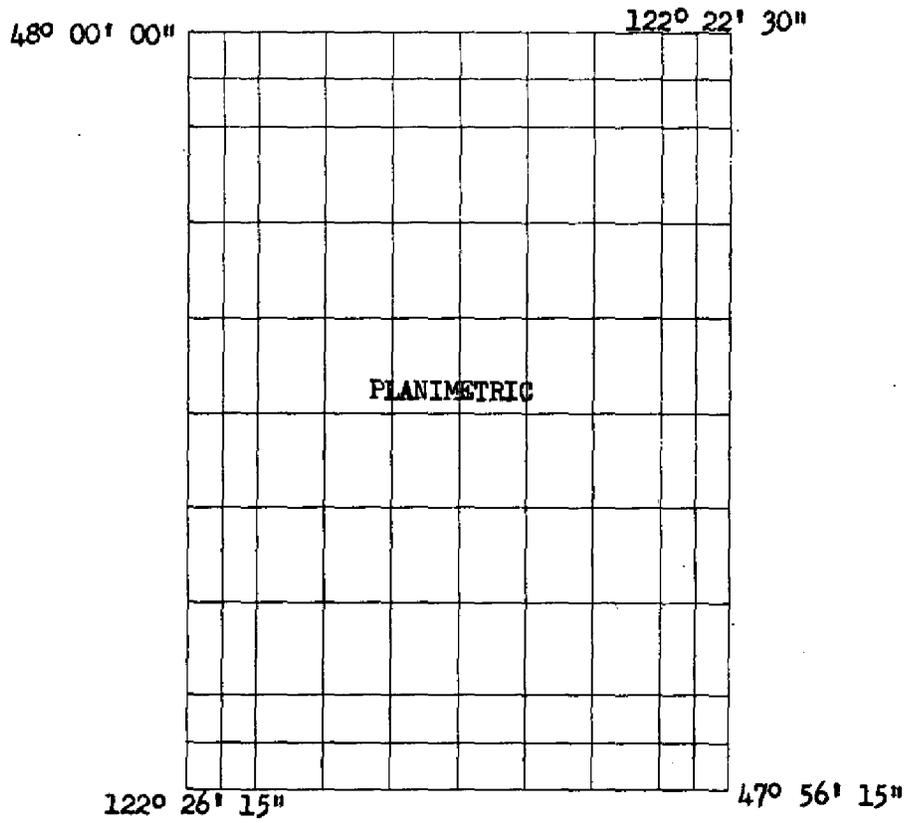
Y= 352,461.93

X= 1,621,451.25

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



Areas contoured by various personnel
(Show name within area)
(II) (III)

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): **L. F. Van Scoy & R. B. Melby** Date: **April 1961**

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): **There is no shoreline within limits of map manuscript.**

Projection and Grids ruled by (IV): **R.A.C.** Date: **10-11-60**

Projection and Grids checked by (IV): **J.D.C.** Date: **10-14-60**

Control plotted by (III): **L. L. Graves** Date: **6-8-61**

Control checked by (III): **J. L. Harris** Date: **7-20-61**

Radial Plot or Stereoscopic
Control extension by (III): **J. D. Perrow** Date: **July 1961**

Planimetry **D. N. Williams** Date: **8-4-61**
Stereoscopic Instrument compilation (III):

Contours Date:

Manuscript delineated by (III): **C. C. Harris, Scribing** Date: **2-7-62**
C. C. Harris, Stick-up **4-19-62**

Photogrammetric Office Review by (III): **J. L. Harris, Rough Draft** Date: **10-24-61**
J. E. Deal, Advance **6-21-62**

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

DESCRIPTIVE REPORT - DATA RECORD

5.

Camera (kind or source) (III): **C&GS Camera "S"**

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
60-W-2156 thru 2158	9-21-60	13:40	1:30,000	Not applicable to this manuscript.

Tide (III)

Reference Station:
Subordinate Station:
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

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): **13**

Shoreline (More than 200 meters to opposite shore) (III): **None**

Shoreline (Less than 200 meters to opposite shore) (III): **None**

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): **1** Recovered: **1** Identified: **1**

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-11633

Project Ph-5905

Refer to the combined Field Inspection Report for Map Manuscript T-11632 thru T-11639 by Leonard F. Van Scoy, dated April - May 1961 which is included in the Descriptive Report for T-11632 (1961).

PROJECTS PH-5905 and PH-6101
PHOTOGRAMMETRIC PLOT REPORT
Puget Sound, Washington
July 1961

21. Area Covered

The area covered in this report is in the vicinity of Possession Sound from Edmonds to Everett, Washington. Planimetric surveys at 1:10,000 scale which cover this area are listed below.

- T-11626 through T-11629
- T-11633 through T-11636
- T-11638, T-11639 and T-12073

22. Method

Horizontal control bridging was accomplished with the Zeiss Stereoplanigraph C-8. Bridge and tie points were established in each strip to facilitate Kelsh compilation and also tie adjacent or cross strips together. All strips were adjusted on the IBM 650 computer. See paragraph 26 for a discussion of the adjustment of each strip and list of photographs used.

23. Adequacy of Control

All horizontal control except Edmonds Holy Rosary Catholic Church Spire, 1961 was field identified. The horizontal control complied with the project instructions. All control held in the bridge adjustments.

24. Supplemental Data

Triangulation station Edmonds Holy Rosary Catholic Church Spire 1961 was office identified. An advance position and description of this station was obtained from the Portland field office and verified by selected quad points from a 1:24,000 scale quad.

25. Photography

The photography met all requirements as to coverage, overlap and definition.

Discussion of each Strip Adjustment

Strip # 12 (60-W-2116 through 2123)

A seven model bridge was adjusted using a four point solution with 3 stations as checks. The adjustment had a maximum error of 4.4 feet and an average error of 2.0 feet.

Strip # 13 (60-S-2530 through 253⁵~~6~~)

A five model bridge was adjusted using a three point solution with 2 stations and 3 tie points as checks. The adjustment had a maximum error of 6.5 feet and an average error of 2.6 feet.

Strip # 14 (60-W-2153 through 2159)

A six model bridge was adjusted on a 3 point solution with 6 stations and 3 tie points as checks. The adjustment had a maximum error of 6.7 feet and an average error of 3.1 feet.

Submitted by:

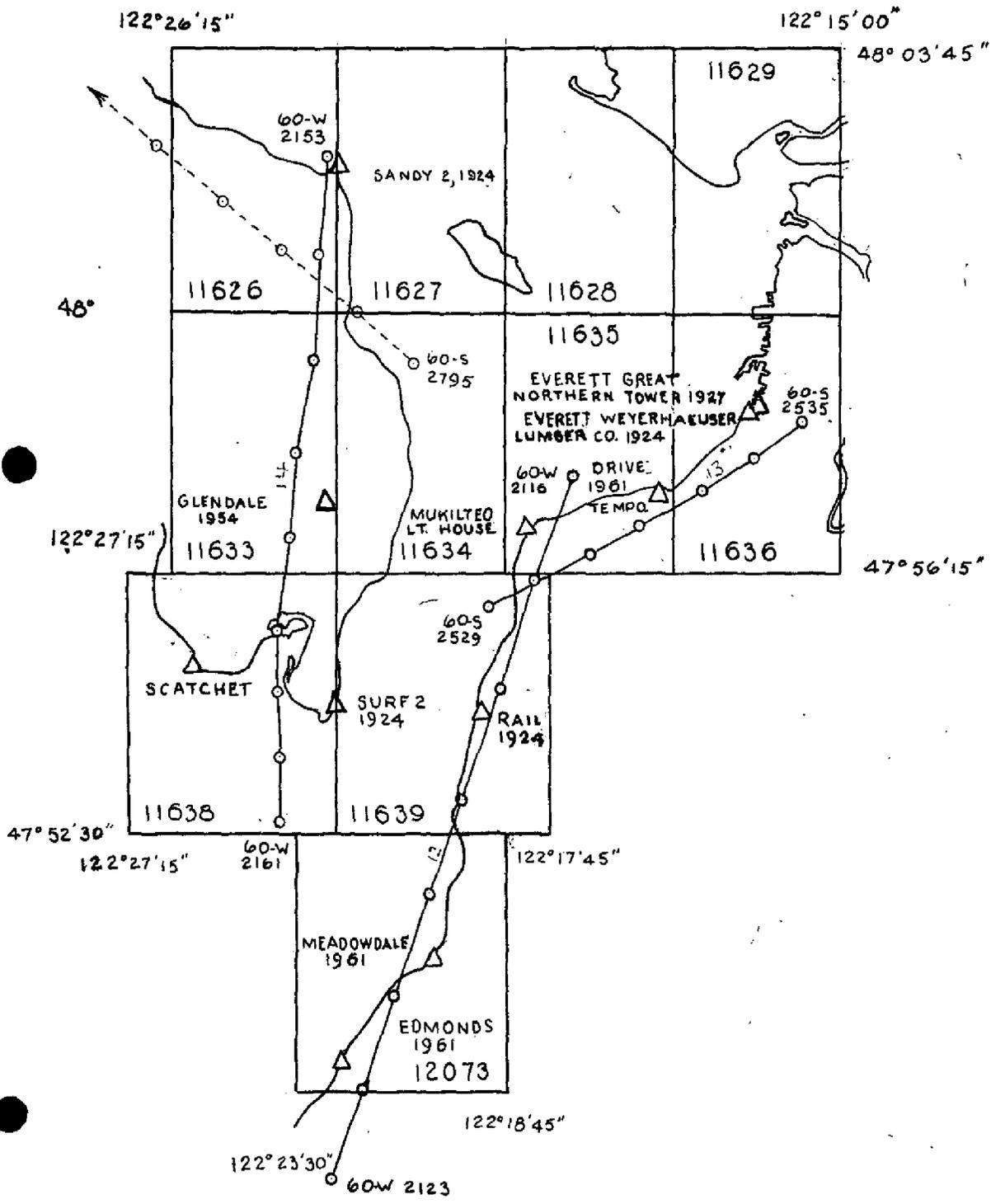
John D. Ferrow Jr.
John D. Ferrow, Jr.

Approved:

Everett H. Ramey
Everett H. Ramey, Chief
Aerotriangulation Section

PUGET SOUND

PH 5905 - 6101



COMPILATION REPORT

Map Manuscript T-11633

Project Ph-5905

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

The entire area consists of interior details.

Field inspection was satisfactory, except for secondary roads and drainage. Any road that may have appeared visually to be private was completely disregarded without investigation. Reference to the U.S.G.S. quadrangle Maxwellton, Washington, will verify this condition. Intersections were added by the compiler to show that the roads do exist.

32. Control:

The identified horizontal control stations supplemented by the pass points located in the stereoplanigraph bridge were adequate for compilation on the Kelsh Instrument.

33. Supplemental Data:

Map of Island County, Washington, dated March 1958, Scale 1" = 1 mile, compiled by Island County Engineer, March 1958.

34. Contours and Drainage:

Contours are not applicable.

Drainage was partly field inspected. Additional drainage was delineated by the compiler with reference to the U.S.G.S. Maxwellton, Washington, quadrangle.

Items 35 thru 38:

Not applicable.

39. Junctions:

Satisfactory junctions were made with T-11626 on the north, T-11632 on the west, T-11634 on the east and T-11638 on the south.

40. Horizontal and Vertical Accuracy:

There are no areas of the map manuscript believed to be of sub-normal horizontal accuracy. Vertical accuracy is not applicable.

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 7½ minute Maxwellton, Washington, quadrangle, Scale 1:24,000, Edition 1956.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 6450, Scale 1:80,000, 11th Edition, corrected 7-27-59.

Items to be Applied to Nautical Charts Immediately:

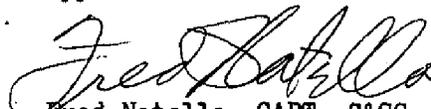
None.

Items to be Carried Forward:

None.

Approved:

Respectfully submitted:


Fred Natella, CAPT, C&GS
Portland District Officer


J. Edward Deal
Cartographer, C&GS

49. Notes to the Hydrographer:

Not applicable.

T-11633

COMPILATION RECORD

COMPLETION DATE

REMARKS

COMPILATION RECORD	COMPLETION DATE	REMARKS
1. Alongshore area for hydro		Not Applicable
4. Interior details added Compilation complete	4-19-62	

PHOTOGRAMMETRIC OFFICE REVIEW

T-11633

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) None 7. Photo hydro stations None 8. Bench marks None 9. Plotting of sextant fixes None 10. Photogrammetric plot report 11. Detail points

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline None 13. Low-water line None 14. Rocks, shoals, etc. None 15. Bridges None 16. Aids to navigation None 17. Landmarks None 18. Other alongshore physical features None 19. Other along-shore cultural features None

PHYSICAL FEATURES

20. Water features 21. Natural ground cover 22. Planetable contours None 23. Stereoscopic instrument contours None 24. Contours in general None 25. Spot elevations None 26. Other physical features

CULTURAL FEATURES

27. Roads 28. Buildings 29. Railroads None 30. Other cultural features

BOUNDARIES

31. Boundary lines None 32. Public land lines None

MISCELLANEOUS

33. Geographic names 34. Junctions 35. Legibility of the manuscript 36. Discrepancy overlay None 37. Descriptive Report 38. Field inspection photographs 39. Forms 40. James L Harris
ReviewerEdward Deal
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:

T-11633

48. Geographic Names:

Deer Lake

Midvale Corner

Miller Lake

Whidbey Island

George M. Bass
Geographic Names Section
30 January 1963

REVIEW REPORT
SHORELINE SURVEYS
T-11631 through T-11639
December 1963

61. General Statement

There are nine (9) shoreline maps of Project PH-5905, Puget Sound, Washington. These maps were prepared primarily to provide basic maps, including the location of all nonfloating aids and landmarks for use in revising our nautical charts and for control of proposed hydrographic surveys.

62. Comparison with Registered Topographic Surveys

T-1388 b	1:10,000	1872
T-1389 a&b	1:10,000	1872
T-1552	1:20,000	1884
T-1681	1:20,000	1885
T-1682	1:20,000	1885
T-4276	1:10,000	1927

There are cultural and shoreline differences due to time interval. These maps are to supersede the above surveys of common area for nautical charting.

63. Comparison with Maps of Other Agencies

Maxwelton, Washington	1:24,000	1953
Mukileto, Washington	1:24,000	1953
Everett, Washington	1:24,000	1953
Hansville, Washington	1:24,000	1953

There are cultural and shoreline changes due to the difference in survey dates.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

6448	1:40,000	Revised to Oct. 1959
6450	1:80,000	Revised to June 1963
184 S. C.	1:80,000	1963

There are no differences of importance between the charts and the subject manuscripts.

66. Adequacy of Results and Future Surveys

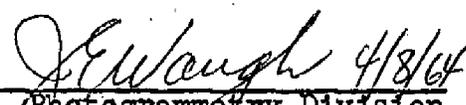
These surveys were prepared according to project instructions and are within the required accuracy for nautical charting.

Reviewed by:


L. C. Lande

Approved by:


Chief, Photogrammetric Branch


Chief, Photogrammetry Division

