

10345

original

Diag. Cht. No. 5902-2 & 6002-2.

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-10345

LOCALITY

State Washington - Oregon

General locality Columbia River

Locality Ilwaco

1938.55-1958

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE MAY 1 1962

USCOMM-DC 5087

10345

DESCRIPTIVE REPORT - DATA RECORD

T - 10345

Project No. (II): Ph-155

Quadrangle Name (IV):

Field Office (II): Seaview, Washington

Chief of Party: V. Ralph Sobieralski

Unit Chief, C. H. Bishop

Photogrammetric Office (III): Portland, Oregon

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): Graphic and Kelsh Instrument

Manuscript Scale (III): 1:10,000

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

Scale Factor (III): None

Date received in Washington Office (IV):

AUG 10 1951

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

3/5/62

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 (S) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): ILWACO, 1926

Lat.: 46° 18' 24.525"

Long.: 124° 02' 31.598"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Washington Zone: South

Y= 375,085.87

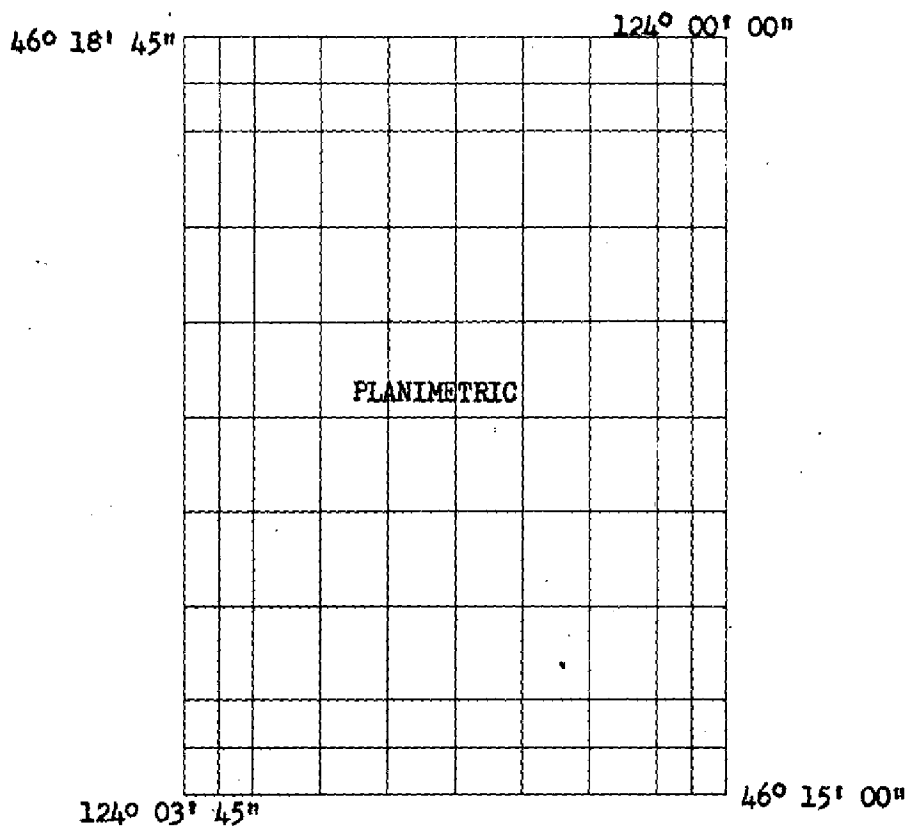
X= 1,105,121.42

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

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY



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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): C. H. Bishop Date: Oct. 1957

Planetable contouring by (II): Date:

Completion Surveys by (II): *supplementary aids and landmarks* Date: 1958

Mean High Water Location (III) (State date and method of location): By field inspection and graphic and Kelsh compilation.

Projection and Grids ruled by (IV): J. R. Haskins Date: 11-13-57

Projection and Grids checked by (IV): I. Y. Fitzgerald Date: 11-14-57

Control plotted by (III): L. L. Graves Date: 11-22-57

Control checked by (III): D. N. Williams Date: 11-22-57

Radial Plot or Stereoscopic Control extension by (III): J. E. Deal & D. N. Williams See Photogrammetric Plot Report Date: 12-13-57

Stereoscopic Instrument compilation (III):
Planimetry D. N. Williams Date: Feb. & Mar. 1958
& L. L. Graves
Contours Date:

Manuscript delineated by (III): J. L. Harris, Scribing Date: 3-13-59
C. C. Harris, Stick-up 4-7-60

Photogrammetric Office Review by (III): J. L. Harris Date: July 1960

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

DESCRIPTIVE REPORT - DATA RECORD

5.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

Camera (kind or source) (III): C&GS "W" Camera and "L" Camera

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
57-L-1827 & 1828	8-18-57	15:08	1:10,000 (ratio)	6.4' above M.L.L.W.
55-W-8675 & 8676	6-6-55	11:57	"	-0.7' Below M.L.L.W.
55-W-9872 & 9873	9-24-55	13:02	1:25,000 (contact)	2.7' above M.L.L.W.

Tide (III)

Reference Station: Astoria, Oregon
Subordinate Station: Ilwaco, Baker Bay, Wash.
Subordinate Station:

Ratio of Ranges	Diurnal	
	Mean Range	Spring Range
	6.5	8.2
	6.0	7.6

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

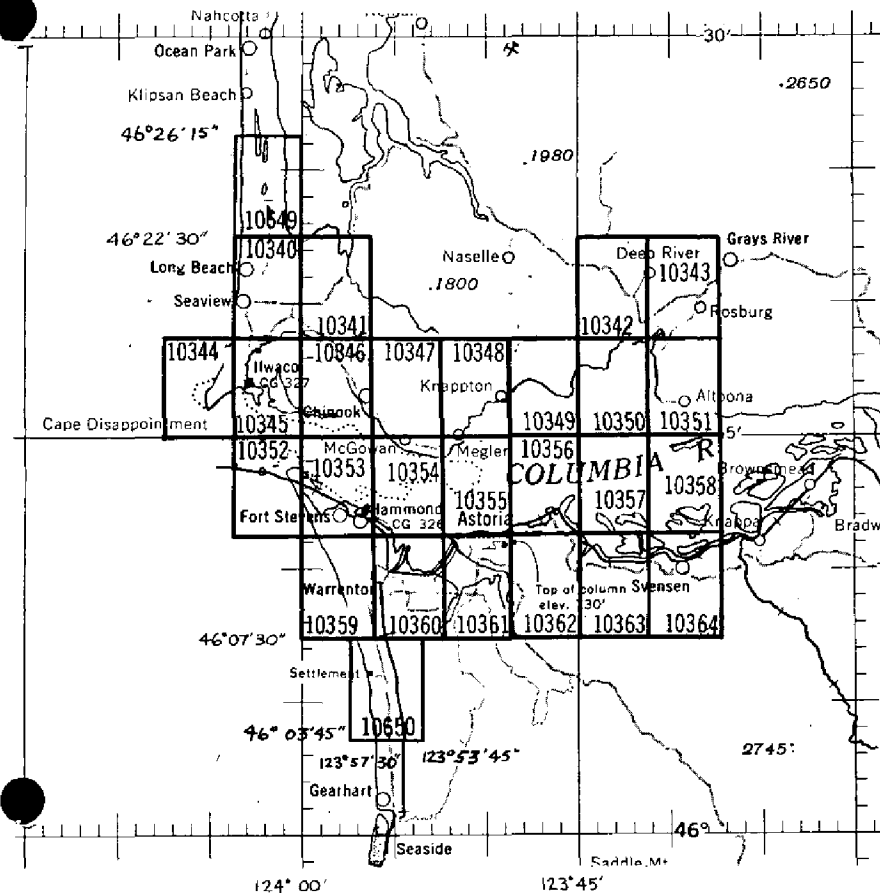
Date:

Land Area (Sq. Statute Miles) (III): 3
Shoreline (More than 200 meters to opposite shore) (III): 13
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 30 Recovered: 22 Identified: 9
Number of BMs searched for (II): 9 Recovered: 7 Identified: 5
Number of Recoverable Photo Stations established (III): 8
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

PLANIMETRIC PROJECT PH-155

MOUTH OF COLUMBIA RIVER, WASH. OREGON



OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	LIN. MI. SHORT LINE	AREA SQ. MILES
10340	9	10
10341	8	12
10342	4	13
10343	7	13
10344	6	2
10345	13	3
10346	11	6
10347	3	12
10348	4	11
10349	4	8
10350	6	3
10351	8	9
10352	3	1
10353	9	4
10354	3	1
10355	4	2
10356	5	5
10357	8	1
10358	21	3
10359	5	6
10360	14	11
10361	15	9
10362	8	12
10363	17	10
10364	12	12
10649	8	8
10650	<u>4</u>	<u>8</u>
TOTAL	219	193

FIELD-INSPECTION REPORT

Map Manuscript T-10345

Project Ph-155

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

AKA

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10345


Project Ph-155

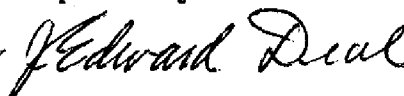
A stereoplanigraph bridge control extension was not run for the area of this map manuscript. Because of the plethora of identified horizontal control stations in Baker Bay and in and around Ilwaco, Washington adequate points were available to scale and level the models in flight 55-W-9872 thru 9874.

Along the southern limits of the map manuscript points were located during the running of a small radial plot which is described in the Descriptive Report for T-10352. This enabled the use of photographs 55-W-8675 and 8676 for graphic compilation.

Approved:

Respectfully submitted:


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


J. Edward Deal
Cartographer

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T 10345

PROJECT NO. Ph-155

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ϕ -COORDINATE LONGITUDE OR λ -COORDINATE		DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
					FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
ILWACO, 1926	Wash.S. Pg. 216	N.A. 1927	375,085.87		85.87	(4914.13)		26.2	(1497.8)		
DO		"	1,105,121.42		121.42	(4878.58)		37.0	(1487.0)		
Sub Station		"	375,135.25		135.25	(4864.75)		41.2	(1482.8)		
ILWACO DOCK LIGHT 1958	Office Comp.	"	1,105,089.13		89.13	(4910.87)		27.2	(1496.8)		
DO		"	372,705.43		2705.43	(2294.57)		824.6	(699.4)		
Sub Station		"	1,105,824.64		824.64	(4175.36)		251.4	(1272.6)		
BAKER 2, 1951	Wash.S. Pg. 291	"	372,075.42		2075.42	(2924.58)		632.6	(891.4)		
BAKER BAY EAST CHANNEL LIGHT 15 1958	Field Comp.	"	1,105,711.76		711.76	(4288.24)		216.9	(1307.1)		
BAKER BAY WEST CHANNEL LIGHT 22 1958	"	"	365,199.66		199.66	(4800.34)		60.9	(1463.1)		
ILWACO BASIN ENTRANCE LIGHT 1958	"	"	1,111,077.40		1077.40	(3922.60)		328.4	(1195.6)		
DISAPPOINTMENT (WASH) 1942	Oreg. 1187	"	46 16 45.67					1410.2	(442.4)		
BAKER BAY EAST CHANNEL LIGHT 21 OREG. 1958	Field Comp.	"	124 00 13.77					294.8	(989.8)		
BAKER BAY EAST CHANNEL LIGHT 23 OREG. 1958	"	"	46 17 54.01					1667.8	(184.8)		
DESDEMONA SOUTH CUT FRONT RANGES 1957	U.S.E. from	"	124 02 12.06					258.1	(1025.9)		
		"	46 18 10.74					331.8	(1520.8)		
		"	124 02 11.60					248.4	(1035.7)		
		"	46 16 36.251					1119.3	(733.3)		
		"	124 02 50.308					1077.2	(207.5)		
		"	46 17 26.15					807.4	(1045.2)		
		"	124 01 03.88					83.1	(1201.2)		
		"	46 17 37.32					1152.3	(700.3)		
		"	124 01 22.99					492.1	(792.2)		
		"	967,136,116		24,26,116	(2563.54)		742.6	(781.4)		
		"	1,105,602.10		602.10	(4297.02)		109.5	(1340.5)		

1 FT. = 3048006 METER

COMPUTED BY J.E.D.

DATE 10-7-57

CHECKED BY D.N.W.

DATE 10-16-57

CONW-DC-57843

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T. 10345

PROJECT NO. Ph-155

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR μ -COORDINATE LONGITUDE OR x -COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
								FORWARD	(BACK)	
BAKER BAY WEST JETTY	Field	N.A.	46	16	01.30	20.877		40.2	(1812.4)	
LIGHT (WASH) 1958	Comp.	1927	124	02	10.32	21.115		221.1	(1063.8)	
DESAPONTA SOUTH CUT	"	"	46	16	49.633			1532.5	(320.1)	
REAR RANGE 1957	"	"	124	03	34.114			730.4	(554.2)	
BLUFF 2, 1926	Wash.S. Pg. 66	"	375,214.56			214.56 (4785.44)		65.4	(1458.6)	
			1,108,131.29			3131.29 (1868.71)		954.4	(569.6)	
TRAP, 1935	"	"	365,966.14			966.14 (4033.86)		294.5	(1229.5)	
			1,107,009.00			2009.00 (2991.00)		612.3	(911.7)	
NO. 1, 1942	Wash.S. Pg. 231	"	365,434.33			434.33 (4565.67)		132.4	(1391.6)	
			1,101,229.39			1229.39 (3770.61)		374.7	(1149.3)	
NO. 2, 1942	"	"	365,005.87			5.87 (4994.13)		1.8	(1522.2)	
			1,101,709.46			1709.46 (3290.54)		521.0	(1003.0)	
POINT (USE) 1913	"	"	371,252.24			1252.24 (3747.76)		381.7	(1142.3)	
			1,103,534.44			3534.44 (1465.56)		1077.3	(446.7)	
BAKER BAY WEST CHAN- NEL EAST JETTY LIGHT	Field	"	46	16	04.07			125.5	(1727.1)	
(WASH) 1958	Comp.	"	124	01	50.86			1089.2	(195.7)	
SAND ISLAND LOWER	"	"	46	15	39.19			1210.0	(642.6)	
DIKE LIGHT (WASH) 1958	"	"	124	00	24.73			529.8	(755.3)	
CANEY, 1958	"	"	46	16	44.947			1387.8	(464.8)	
			124	02	39.298			841.4	(443.2)	6.
SAND ISLAND LOOKOUT	Wash.S.	"	359,821			4821 (179)		1469.4	(54.6)	
TOWER M-5, 1958	Pg. 291	"	1,112,464			2464 (2536)		751.0	(773.0)	
CAPE DISAPPOINTMENT	Wash.S.	"	363,961.50			3961.50 (1038.50)		1207.5	(316.5)	
LIGHTHOUSE, 1873	Pg. 62	"	1,102,404.02			2404.02 (2595.98)		732.7	(791.3)	

1 FT. = 3048006 METER

COMPUTED BY J.E.D.

DATE 10-7-57

CHECKED BY D.N.W.

DATE 10-16-57

COMM-DC-57043

COMPILATION REPORT

Map Manuscript T-10345

Project Ph-155

31. Delineation:

All detail which could be compiled from Kelsh models of photographs No. 55-W-9872 thru 9874 and 57-L-1827 and 1828 was compiled on the Kelsh Instrument. Models were scaled holding to the numerous identified horizontal control stations. Planimetry south and east of the limits of these models was compiled graphically from ratio prints of photographs 55-W-8675 and 8676.

Field inspection was adequate.

The dashed shoreline for part of Sand Island was surveyed by planetable but it is subject to seasonal change. Refer to field photograph 55-W-8675.

32. Control:

Horizontal control was adequate.

33. Supplemental Data:

White Print, Real Estate Columbia River at The Mouth (Fort Canby) Scale 1" = 500' dated 27 Feb. 1956, Portland District U.S.C. of E., Oregon Senate Bill No. 1 Chapter 94-O.L.-1957.

34. Contours and Drainage:

Contours are not applicable.

Drainage was visible on the photographs and indicated by field inspection.

35. Shoreline and Alongshore Details:

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

Foreshore areas visible on the photographs were compiled.

Low-water lines were not determined except for the area covered by photographs 55-W-8675 and 8676.

36. Offshore Details:

There are numerous offshore piling and old fish traps. Where these could be determined, they were accurately compiled. Otherwise the area has been outlined and properly labeled. Sand bars baring at low-water are also shown.

37. Landmarks and Aids:

Forms 567 which have been checked against the 1961 Pacific Coast Light List are submitted for these features.

A discrepancy overlay is submitted showing the location of two aids to navigation which were omitted when the compilation was done. This overlay also indicates two triangulation stations which have aid to navigation names, but they are apparently dredging ranges and have never been listed in any light list. Two aids to navigation which have been rebuilt since the date of compilation are also indicated.

Forms 567 are submitted recommending the deletion as landmarks of two dolphins shown in Chart 6151.

38. Control for Future Surveys:

None were located except the landmark and fixed aids to navigation reported on Forms 567.

39. Junctions:

Satisfactory junctions were completed with T-10340, on the north, T-10344 on the west, T-10346 on the east and T-10352 on the south.

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, Cape Disappointment, Wash.-Oreg., 1:24,000 Scale, 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:

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

Respectfully submitted:

J. Edward Deal
J. Edward Deal
Cartographer

Map Manuscript T-10345

49. Notes to the Hydrographer:

The numerous fixed aids to navigation located and named on this manuscript furnish a strong base for the location of additional photo-hydro stations needed for the hydrographic survey. Those shown with 2.5 mm circles were located by Kelsh instrument methods. All others have triangulation positions and were recovered and identified during field inspection.

Use field photographs 55 W 8675 and 8676 to supplement the office photographs when locating additional photo-hydro signals.

PHOTOGRAMMETRIC OFFICE REVIEW

T-10345

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 None 10. Photogrammetric plot report ☒ 11. Detail points ☒

ALONGSHORE AREAS

(Nautical Chart Data)

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

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 ☒ 32. Public land lines None

MISCELLANEOUS

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

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:

M-2623-12

48. Geographic Names:

*Baker Bay
Baker Bay East Channel
Baker Bay West Channel
*Cape Disappointment
Clatsop County
Columbia River
Fort Canby
Ilwaco
Jetty A
O'Neil Lake
Pacific County
Sand Island

* B.G.N. Decision

George W. Ball
Geographic Names Section

23 February 1962

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

MEASURING CHORDS: LANDMARKS FOR CHARTS

STRIKE OUT ONE

TO BE CHARTED
XXXXXXXXXXXX

Portland, Oregon

27 July, 1961

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

The positions given have been checked after listing by

J. Edward Dea

Fred Natella

Chief of Party:

[illegible]

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. *Fixed* 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.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

T-10345

1.

TO BE CHARTED
~~NONFLOATING AIDS~~

STRIKE OUT ONE

NONFLOATING AIDS ~~FOR CHARTS~~

Portland, Oregon

27 July 1961

I recommend that the following objects which have ~~(examined)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(re-examined)~~ the charts indicated.

The positions given have been checked after listing by J. Edward Deal

Fred Natella

Chief of Party.

STATE			WASHINGTON			POSITION				METHOD OF LOCATION AND SURVEY NO.		DATE OF LOCATION		CHARTS AFFECTED		
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE		LONGITUDE		DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED			
			°	'	°	'								D.M. METERS	D.P. METERS	
LIGHT	Columbia River Entrance Range Front Light	991	46	16	124	03	N.A. 1927	Triangulation	1956		X	X	6151 6002			
LIGHT	Columbia River Entrance Range Rear Light	992	46	16	124	02	"	"	"		X	X	"			
LIGHT-HOUSE	Cape Disappointment Lighthouse	821	46	16	124	03	"	"	1873		X	X	"			
LIGHT	Baker Bay West Jetty Light	1555	46	16	124	02	"	"	1958		X		6151			
LIGHT	Baker Bay, West Channel, East Jetty Light	1556	46	16	124	01	"	"	"		X		"			
LIGHT	Baker Bay West Channel Light 4	1557	46	16	124	01	"	Graphic	"		X		"			
*LIGHT	Baker Bay West Channel Light 6	1558	46	16	124	01	"	"	"		X		"			
LIGHT	Baker Bay West Channel Light 8	1559	46	16	124	02	"	"	"		X		"			
LIGHT	Baker Bay West Channel Light 12	1560	46	16	124	02	"	"	"		X		"			
LIGHT	Baker Bay West Channel Light 14	1561	46	17	124	02	"	"	"		X		"			
LIGHT	Fort Canby Light 15	1562	46	17	124	03	"	"	"		X		"			
LIGHT	Baker Bay West Channel Light 17	1563	46	17	124	02	"	"	"		X		"			
LIGHT	Baker Bay West Channel Light 20	1564	46	17	124	02	"	"	"		X		"			
LIGHT	Baker Bay West Channel Light 22	1565	46	17	124	02	"	Triangulation	"		X		"			

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. *data* should be considered for the charts of the area *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	1804	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 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 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 inconsistencies.

65. Comparison with Nautical 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
A. K. Heywood

Approved:

L. C. Lande
L. C. Lande, Chief
Review and Edit Section

Marvin T. Rankin
Chief, Nautical Chart Div.

J. W. Vaughn 5/21/62
Chief, Div. of Photogrammetry

Max B. Kelle
Chief, Coastal Surveys Div.

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10345

Record of Application to Charts

[illegible]

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.