9270 9271
9272

9270 9271 9272

Diag Cht 6152

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph-50 (49) Office No. T-9270 thru T-9272

LOCALITY

State Oregon-Washington

General locality Columbia River

Locality Upstream End of Wallace Island to Upstream End of Tenasillahe Island

194

CHIEF OF PARTY

Henry J. Healy, Chief of Party-Field
Charles W. Clark, Chief of Party-Photo. Office

LIBRARY & ARCHIVES

DATE April 13, 1955

B-1870-1 (1)

DATA RECORD

T- 9270 to T-9272 Incl.

Project No. (II): Ph-50(49) Quadrangle Name (IV):

Field Office (II): Ship "HODGSON" Chief of Party: Henry J. Healy
W. H. Bainbridge

Photogrammetric Office (III): Portland, Oregon Officer-in-Charge: Charles W. Clark

Instructions dated (II) (III): 27 June 1949 (Field and Office) Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

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

Scale Factor (III): None

Date received in Washington Office (IV): 2-15-50 Date reported to Nautical Chart Branch (IV): 2-21-50

Applied to Chart No. Date: Date registered (IV): 19July, 1954

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

Geographic Datum (III): N.A. 1927 Vertical Datum (III): Local Mean River Level Mean Sea Level

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
(see USE river profile, attached, for figures to translate to the Col. River datum of the hydrographic surveys)

Reference Station (III): See reverse side of this page.

Lat.: Long.: Adjusted / Unadjusted

Plane Coordinates (IV): State: Zone:

Y= X=

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.

M-2618-12(4)

Reference Stations

T-9270

STANE (Wash.) 1936

46°	11'	01.678"	51.8m (1800.8m)
123°	21'	06.471"	138.8 m (1148.0m)

T-9271

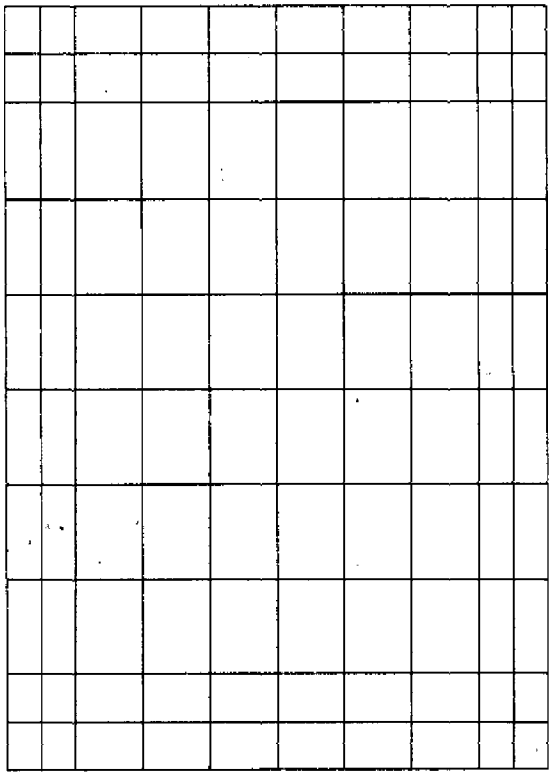
WAUNA, Yellow Tank,(Ore.) 1936

46°	09'	26.57 "	820.4m (1032.2m)
123°	24'	23.70 "	508.5m (778.9m)

T-9272

J (USE) (Wash.) 1936

46°	09'	09.897"	305.6m (1547.0m)
123°	17'	27.709"	594.6m (692.9m)



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

DATA RECORD

Field Inspection by (II): Ship "HODGSON" Date: July & Aug. 1949
Oct. 17-31, 1950

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): The mean high-water line was located in the field in July and August 1949 on U.S. Engineers photographs made on the 18th and 25th of September 1948 when the river was at a low stage after the 1948 flood.

Projection and Grids ruled by (IV): Date:

Projection and Grids checked by (IV): Date:

Control plotted by (III): J. L. Harris Date: Oct. 23, 1949

Control checked by (III): F. H. Elrod Date: Oct. 26, 1949

Radial Plot or Stereoscopic Control extension by (III): J.L. Harris & J.E. Deal Date: Oct. 11, 1949

Stereoscopic Instrument compilation (III): Planimetry Date:

Contours Date:

Manuscript delineated by (III): See reverse side Date:

Photogrammetric Office Review by (III): Ree H. Barron (All sheets) Date: Oct. 24 1949 to Nov. 7, 1949

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

M-2618-12(4)

Delineation by:

T-9270	Helen Laube	Oct. 28, 1949
T-9271	M. B. Elrod	Oct. 19, 1949
T-9272	Carita Wiebe	October 18, 1949

Camera (kind or source) (III): Single lens, K- 17, 12 inch focal length

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
4362 to 4368 Incl.	9-18-48	2:07 PST = 14:07	1:10,000 ratio	~~4.1~~ ft. above M.S.L.
4393 to 4402 Incl.	"	" "	"	~~4.1~~ ft. above M.S.L
4410 to 4422 Incl.	"	" "	"	~~4.1~~ ft. above M.S.L.
4458 and 4459	"	" "	"	~~4.1~~ ft. above M.S.L.
4488 to 4502 Incl.	9-25-48	2:55 PST = 14:55	"	~~2.5~~ ft. ~~above~~ below M.S.L.
4505 to 4516 Incl.	"	" "	"	~~2.5~~ ft. ~~above~~ M.S.L.
4537 to 4543 Incl.	"	" "	"	~~2.5~~ ft. above M.S.L.
S 119 T 6 R 12 E (T-9220)	10-27-48	approx. 14:00-14:30 ?	"	1.85-1.15 above MSL

(MSL = 4.2 ft above MLLW at Jetty, Col. R. Mouth)

T-9270 West to East Cathlamet Wauna

T-9271 Wauna – Westport – E. end Puget Id

T-9272 E. end Puget Id – Cape Horn – E. end Wallace Id.

Tide (III)

Ratio of Ranges	Mean Range	Diurnal ~~Spring~~ Range
	5.2	6.3

Reference Station: Stage of tide reduced from actual readings

Subordinate Station: of U.S. Engineers Tide Gage, Wauna, Oregon

Subordinate Station: 0 + 00 of gage = - 2.27 M.S.L.

See USE profile attached hereto. (MSL = 4.2 above MLLW at Jetty)

Washington Office Review by (IV): L. T. Stevens Date: 10- -52

Final Drafting by (IV): John D. Fraser Date: 12/4/53

Drafting verified for reproduction by (IV): Wm O. Hallin Date: 2- 9-54

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 10.6 (No interior detail inshore from shoreline)

Shoreline (More than 200 meters to opposite shore) (III): 55.0 Statute Miles

Shoreline (Less than 200 meters to opposite shore) (III): 38.9 Statute Miles

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 50 Recovered: 50 Identified: 13*

Number of BMs searched for (II): Recovered: Identified:

Number of Recoverable Photo Stations established (III): 50

Number of Temporary Photo Hydro Stations established (III): 71

Remarks: * In addition there were 26 stations, that were formerly triangulation stations but are considered to be topographic stations, which were identified for use in the radial plot. See remarks in Photogrammetric Plot Report under "Control".

From Tide Curves

Sept. 18, 1948 LT = -0.1' @ 9:11. HT = 7.3' @ 15:17.

Sept. 25, 1948 LT = 3.0' @ 12:44 HT = 7.4' @ 19:05

Oct. 27, 1948 H-T = 7.6' @ 11:57 LT = 1.5' @ 18:17

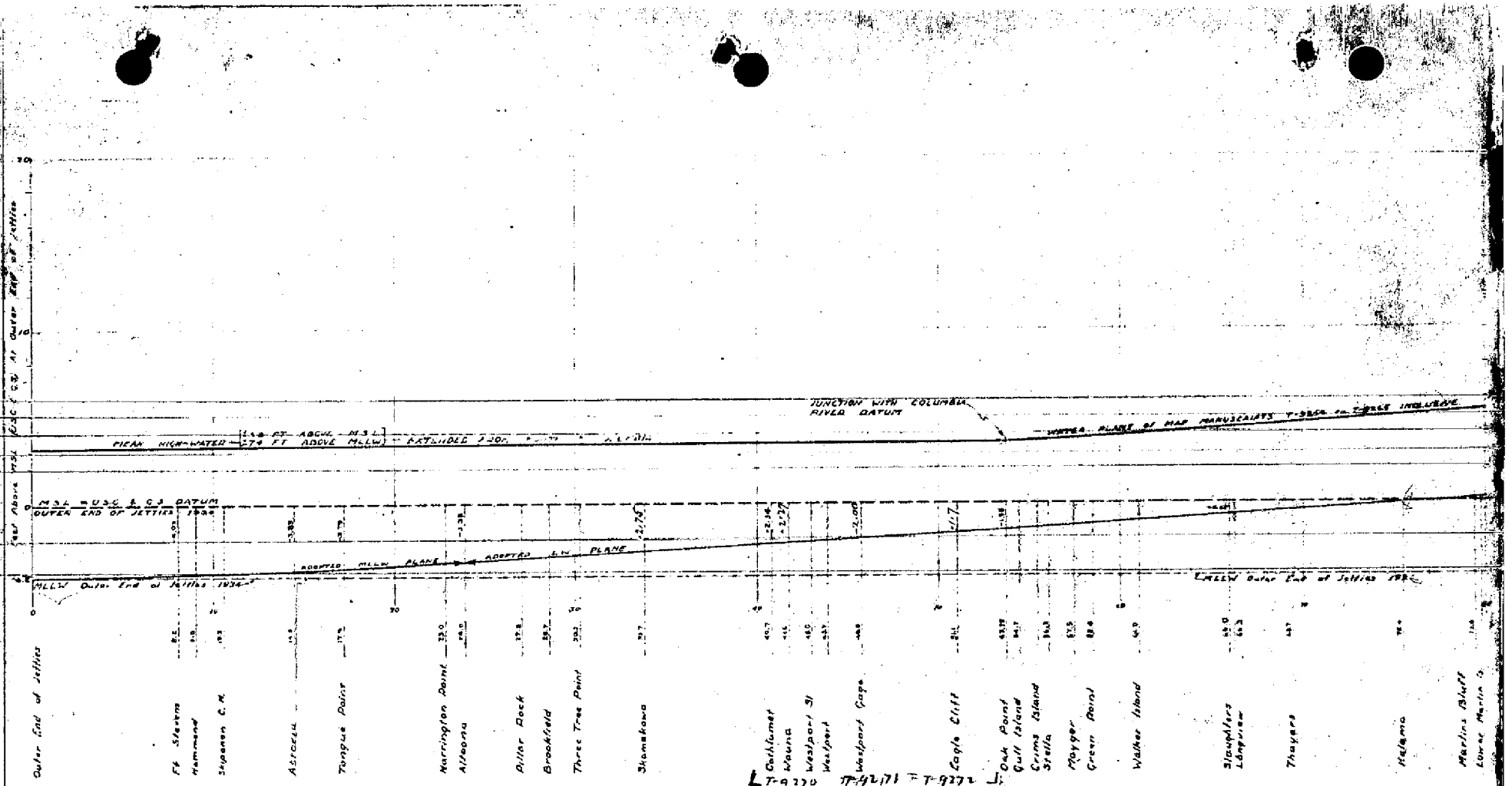
Time (estimated): 14:00 - 14:30

14:07 — 6.7' above MLLW (Jetty @ Col. River mouth)
4.77 " LW Pl adopted Col. R. datum (Wauna)
4.86 " " " " " (Cathlamet)
2.50 " MSL (Jetty - C&GS datum)

14:55 — 4.15 above MLLW
2.22 " LW Pl (Wauna)
2.81 " " (Cathlamet)
0.05 below MSL

T-9272 Cathlamet Chan. 14:00 — 6.05 above MLLW
4.12 " LW Pl. (Wauna)
4.21 " " (Cathlamet)
1.85 " MSL

14:30 — 5.85 " MLLW
3.92 " LW Pl (Wauna)
3.51 " " (Cathlamet)
1.15 " MSL



COLUMBIA RIVER WATER PROFILES MOUTH TO LOWER MARTIN ISLAND

ABOVE INFORMATION FROM COLUMBIA RIVER WATER PROFILES — MOUTH TO BONNEVILLE
U S ENGINEERS' OFFICE — PORTLAND OREGON

VERTICAL 1" = 5 FEET HORIZONTAL 1" = 5 MILES

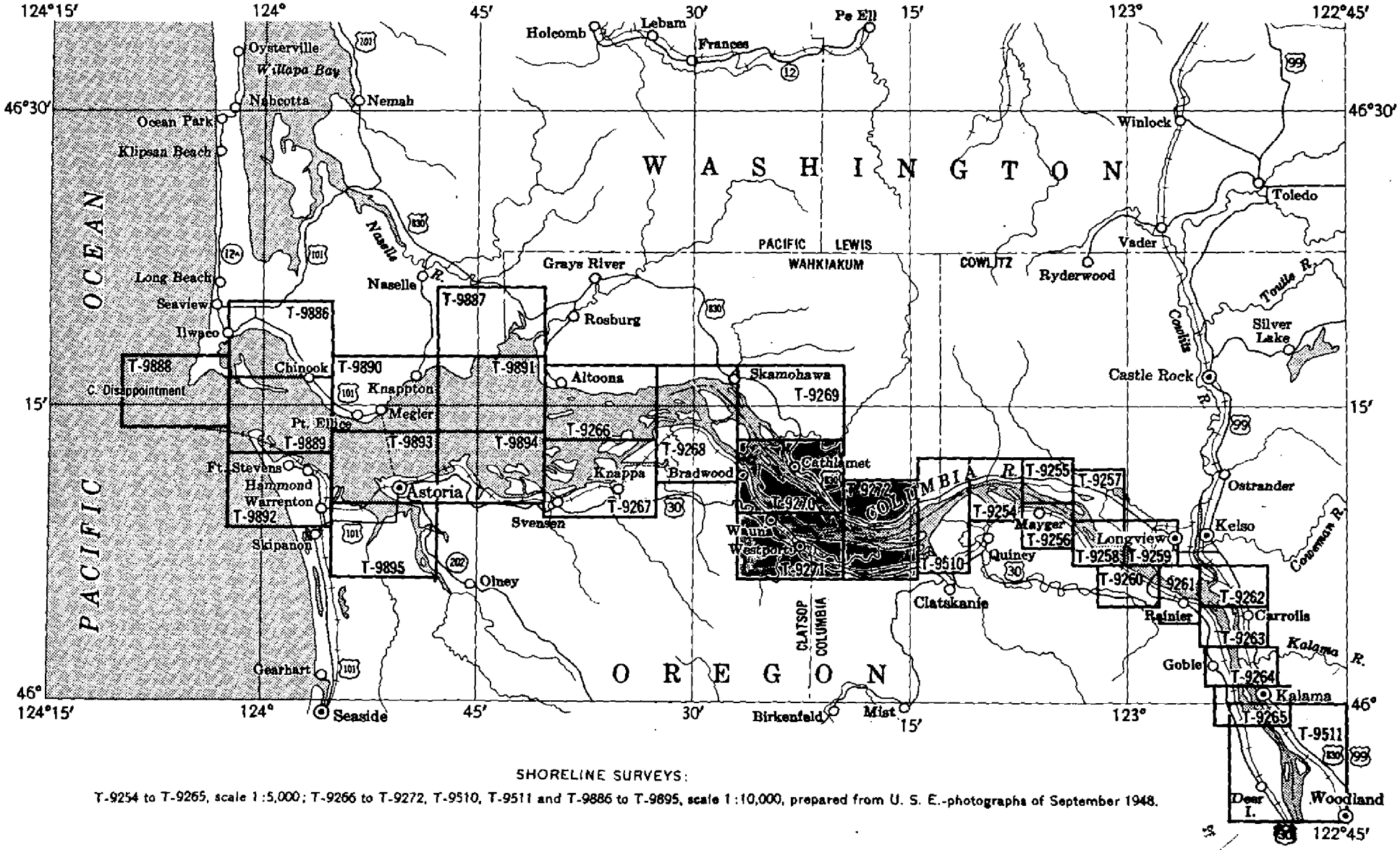
NOTE: SEE PAGE 14, SPECIAL PUBLICATION NO. TIDAL BENCH MARKS, STATE of OREGON

Ph-50(29)

SHORELINE MAPPING PROJECT PH-50 (49)

WASHINGTON-OREGON, Lower Columbia River

Compilation scales 1:5,000 and 1:10,000



SHORELINE SURVEYS:

T-9254 to T-9265, scale 1:5,000; T-9266 to T-9272, T-9510, T-9511 and T-9886 to T-9895, scale 1:10,000, prepared from U. S. E.-photographs of September 1948.

Summary to Accompany T-9270 - T-9272

As originally set up, Columbia River shoreline project Ph-50(49) consisted of two parts: Part I from Sandy Island, near Kalama, downstream to include Crims Island; Part II from Wallace Island, downstream to Altoona and Svensen, Cathlamet Bay. This layout left a four-minute gap between parts I and and II and between Part I and Project CS-322 next south.

Two new surveys (1:10,000) were added to project Ph-50(49) by supplementary instructions 1 and 2. T-9510 for the gap west of part I, and T-9511 for the gap south of Part I.

A third supplementary instruction provided for a series of surveys to complete the shoreline mapping of Columbia River from Cathlamet Bay to the Pacific Ocean. This is Part III of the Project.

Part I consists of twelve map manuscripts at a scale of 1:5,000, T-9254 to T-9265, inclusive.

Part II has seven map manuscripts at a scale of 1:10,000, T-9266 to T-9272, inclusive.

Part III has ten map manuscripts at a scale of 1:10,000, T-9886 to T-9895, inclusive.

These three parts, together with T-9510 and T-9511, provide for the shoreline mapping of Columbia River from its mouth to Woodland, Washington.

Hydrographic and photogrammetric parties worked concurrently and cooperatively on the whole project under the supervision of Comdr. H. J. Healy in 1949, Comdr. W. H. Bainbridge in 1950, and Comdr. H. G. Conerly in 1951 on the ship HODGSON.

FIELD INSPECTION REPORT
Map Manuscripts T-9270 to T-9272 Inclusive
Project Ph-50(49)
Area of 2nd Priority

The field inspection for this area was done by the Ship "HODGSON" during July and August 1949. Also Oct. 1950

For facts concerning the field inspection work refer to the Descriptive Report for the hydrographic survey Project C.S. 339.

PHOTOGRAMMETRIC PLOT REPORT
Map Manuscripts T-9270, to T-9272 Inclusive
Project Ph-50(49)

21: AREA COVERED:

This radial plot covers the shorelines of approximately a 13.5 mile portion of the Columbia River from the upstream end of Wallace Island to the upstream end of Tenashlahe Island. The area comprises map manuscripts No'd. T-9270 to T-9272 inclusive and was radially plotted at a scale of 1:10,000.

22: METHOD:

The three map manuscripts were joined together with cellulose tape and the radial plot was run directly on the map manuscripts. Acetate templets made from 1:10,000 ratio prints of 1:12,000 contact scale photography were used.

This photography was made at a low water stage after the 1948 flood of the Columbia River by the Leonard Delano Co. of Portland, Oregon for the Corps of U. S. Engineers, Portland District. The contant negatives were obtained by this office and forwarded to the Washington Office where ratio prints were made.

Special fiducial marks for paper distortion are printed on these ratio prints. In a letter from the Director, 711-rs, dated 22 June 1949, Subject: "Photographs - Project Ph-50(49)", it is stated that the special fiducial marks shown on these prints are not usable for six flights of photographs in the area. For this reason and because no trouble had been encountered from paper distortion in other plots in this project, no attempt has been made to correct for paper distortion on photographs containing fiducial marks usable for this purpose.

Most of the radials to horizontal control stations passed through or were held tangent to their plotted positions and the intersections of radials to pass points, topographic station, and photo hydro stations, were very good throughout this radial plot.

23: ADEQUACY OF CONTROL:

All paragraphs,, except paragraph No. 2, of Item 23: "Adequacy of Control" in the Photogrammetric Plot Report for T-9254 to T-9265 inclusive Project Ph-50(49), are applicable to this descriptive report.

24: SUPPLEMENTAL DATA:

For the area of this radial plot this office was furnished with prints on clear acetate of the 1936 topographic surveys, Scale, 1:10,000. As previously stated in side heading 23: "Adequacy of Control", the dolphins and aids to navigation are continually being rebuilt and moved due to damage by annual floods in the Columbia River and because of deterioration. It is believed that because of these reasons, the field party was unable to recover more than a few of these 1936 graphic control stations.

25: PHOTOGRAPHY:

The photograph coverage was adequate for the radial plot work.

26: REMARKS:

It is believed that this radial plot furnished accurate locations for photo hydrographic stations, for use by the Ship "HODGSON" during the hydrographic survey and that shoreline surveys have been compiled that are well within the limits of the accuracy requirements for the project.

Approved:

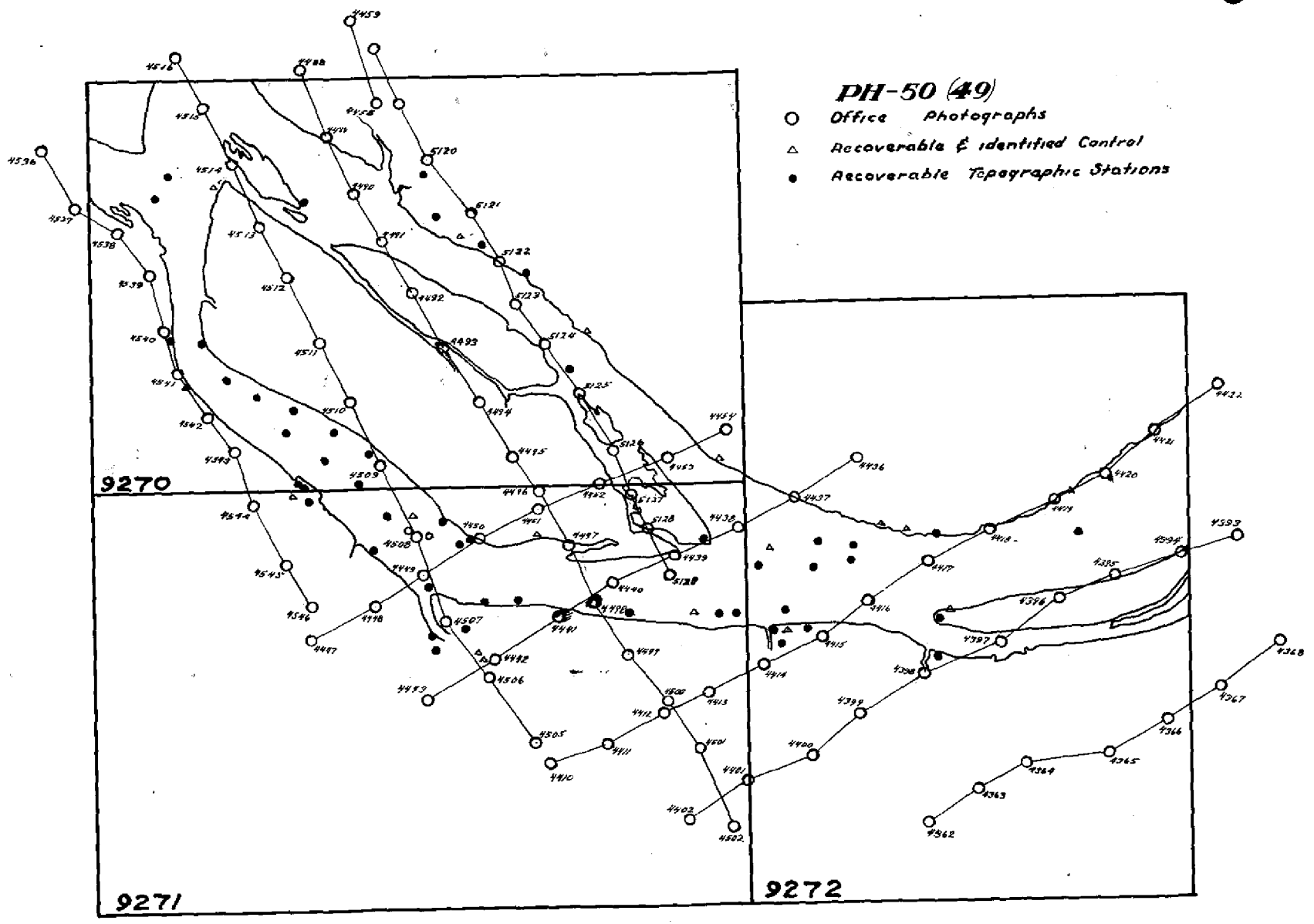
Charles W. Clark

Charles W. Clark
Chief of Party

Respectfully submitted:

J. Edward Deal Jr.

J. Edward Deal, Jr.
Cartographer


PH-50 (49)
Office Photographs
Recoverable & identified Control
Recoverable Topographic Stations
9270
9271
9272

MAP T- 9270 PROJECT NO. Ph-50(49) SCALE OF MAP 1:10,000 SCALE FACTOR: None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
Cathlamet Channel Light (Wash-Ore.) 1936	G-3422 Page 345	N.A. 1927	46° 09' 50.361" / 123° 19' 38.403"				1554.9 / 823.9	(297.7) / (463.4)		
Dike 75.0, dolphin, West end, (Wash-Ore.) 1936	G-3422 Page 357	N.A. 1927	46° 12' 19.06 " / 123° 25' 23.74 "				588.5 / 509.0	(1264.1) / (777.4)		
Bugby Hole, ecc. 1913 (Ore.)	G-3422 Page 357	N.A. 1927	46° 10' 30.76 " / 123° 25' 42.90 "				949.7 / 920.2	(902.9) / (366.8)		
Cathlamet, St. Cathrines Church, Cross(Wash.)1936	G-3422 Page 346	N.A. 1927	46° 11' 56.538" / 123° 22' 49.571"				1745.7 / 1062.9	(106.9) / (223.6)		
Stane (Wash.) 1936	G-3422 Page 328	N.A. 1927	46° 11' 01.678" / 123° 21' 06.471"				51.8 / 138.8	(1800.8) / (1148.0)		
			The following stations were used as horizontal control and are considered recoverable topographic stations since they have either been rebuilt since a triangulation position was established or they are stations established by other agencies and not tied into a USC&GS triangulation scheme.							
Bugby Hole Light (USE), 1940	U.S. Engrs.	N.A. 1927	46° 10' 54.653" / 123° 25' 53.578"				1687.5 / 1149.1	(165.1) / (137.7)		
Puget Island Light(USE), 1948	U.S. Engrs.	N.A. 1927	46° 10' 54.564" / 123° 25' 29.916"				1684.7 / 641.6	(167.9) / (645.2)		
Clifton Dike South End Light (USE) 1940	U.S. Engrs.	N.A. 1927	46° 12' 07.812" / 123° 26' 03.357"				241.2 / 72.0	(1611.4) / (1214.4)		
Cathlamet Channel 6 Light (Wash-Ore.) 1949	G-3422 Page 346	N.A. 1927	46° 10' 38.599" / 123° 21' 14.298"				1191.8 / 306.7	(660.8) / (980.3)		
WAUNA CHANNEL DIKE DOLPHIN WEST END, 1949	U.S. Engrs.	N.A. 1927	46° 09' 49.659" / 123° 24' 06.220"				1533.3 / 133.5	(319.3) / (1153.8)		

1 FT. = .3048006 METER

COMPUTED BY: Frank H. Elrod DATE 9/21/49 CHECKED BY: James L. Harris DATE 9/21/49

M-2388-12

MAP T-9270 PROJECT NO. Ph-50(49) SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
Clifton Dike, North End Light, 1936	G-3422 Page 356	N.A. 1927	46° 12' 21.36 " 123° 25' 47.94 "			659.5 (1193.1) 1027.8 (258.5)	1168
Dike 71.8 Dolphin, West End (USE)	U.S. Engrs.	N.A. 1927	46° 10' 06.208" 123° 23' 56.186"			191.7 (1660.9) 1205.4 (81.8)	1138 B
Dike 71.2A Dolphin, West End (USE)	U.S. Engrs.	N.A. 1927	46° 09' 49.539" 123° 23' 28.629"			1529.6 (323.0) 614.2 (673.1)	1134 B
Puget Island 3 Light (USE) 1940	U.S. Engrs.	N.A. 1927	46° 10' 33.017" 123° 25' 06.508"			1019.4 (833.2) 139.6 (1147.4)	1144 B
Dike 71.2 Dolphin West End (USE)	U.S. Engrs.	N.A. 1927	46° 09' 35.021" 123° 23' 45.933"			1081.3 (771.3) 985.6 (301.8)	1132 E
Dike 72.2 Dolphin West End (USE)	U.S. Engrs.	N.A. 1927	46° 10' 19.581" 123° 24' 28.297"			604.6 (1248.0) 607.0 (680.1)	1140 B
Dike 72.4 Dolphin West End (USE)	U.S. Engrs.	N.A. 1927	46° 10' 27.130" 123° 24' 50.258"			837.7 (1014.9) 1078.1 (209.0)	1142 B
Bradley-Woodward Lumber Co, north stack (Ore) 1934	G 3422 p. 347	"	46° 11' 51.279" 123° 26' 07.427	Northerly of 4. ± 150ft		1583.3 269.3 159.2 1127.3	
Pole 1913, RM1 1934 (r. 1950)	G 8834 p. 1113	"	46° 12' 37.164 123° 25' 12.937			1147.5 277.3	

1 FT. = .3048006 METER

COMPUTED BY: F. H. Elrod DATE 9/29/49 CHECKED BY: J.L. Harris DATE 9/30/49

M-2388-12

Page 12

MAP T-9271 PROJECT NO. Ph-50(49) SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
Wauna, yellow tank	G-3422	N.A.	46° 09' 26.57 "			820.4 (1032.2)	
(Ore.) 1936	Page 354	1927	123° 24' 23.70 "			508.5 (778.9)	
Westport Lumber Co.	G-3422	N.A.	46° 08' 11.322"			349.6 (1503.0)	
tank, (Ore.) 1936	Page 345	1927	123° 22' 17.638"			378.6 (909.3)	
Dike 70.8, dolphin	G-3422	N.A.	46° 09' 22.71 "			701.2 (1151.4)	
east end. (Wash.-Ore.) 1936	Page 357	1927	123° 23' 13.93 "			298.9 (988.6)	
Dike 67.9, dolphin	G-3422	N.A.	46° 08' 27.310"			843.2 (1009.4)	
north end (Oregon) 1936	Page 347	1927	123° 20' 15.604"			334.9 (952.9)	
Westport Lumber	G-3422	N.A.	46° 08' 12.155"	Ldmk 161 ft		375.3 (1477.2)	
Co., Stack, (Ore.) 1936	Page 345	1927	123° 22' 18.786"			403.2 (884.7)	
			The following stations were used as horizontal control and are ~~considered recoverable topographic stations since they have either~~ been rebuilt since a triangulation position was established or they are stations established by other agencies and not tied ~~into a USC&GS triangulation scheme.~~				
LOW (USE) RM #1	U.S.	N.A.	46° 09' 01.574"			48.6 (1804.0)	
1949	Engrs.	1927	123° 19' 34.911"			749.2 (538.4)	
Westport Dike 4	G-3422	N.A.	46° 08' 26.935"			831.6 (1021.0)	
Light (Ore.) 1949	Page 346	1927	123° 19' 46.377"			995.4 (292.4)	
Wauna Range Front	U.S.	N.A.	46° 08' 38.169"			1178.5 (674.1)	
Light (USE) 1949	Engrs.	1927	123° 22' 52.012"			1116.3 (171.4)	
Westport Range	U.S.	N.A.	46° 08' 34.149"			1054.4 (798.2)	
Rear Light (Ore.) 1949	Engrs.	1927	123° 22' 07.914"			169.9 (1117.9)	
Wauna, Range	U.S.	N.A.	46° 08' 23.506"			725.8 (1126.8)	
Rear Light (USE) 1949	Engrs.	1927	123° 22' 33.089"			710.2 (577.6)	

Page 13

1 FT. = .3048006 METER

COMPUTED BY: F. H. Elrod DATE 9/20/49 CHECKED BY: J. L. Harris DATE 9/21/49

M-2388-12

MAP T-9271 PROJECT NO. Ph-50(49) SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
Daybeacon, West End Dike 70.8 1949	U.S. Engrs.	N.A. 1927	46° 09' 21.072" 123° 23' 23.467"			650.6 (1202.0) 503.6 (783.9)	
Pancake Bar Dike, East End, Dolphin (USE) 1949	U.S. Engrs.	N.A. 1927	46° 09' 08.095" 123° 22' 45.108"			249.9 (1602.7) 968.0 (319.6)	
Pancake Bar Dike West End Light (Wash.) 1949	G-3422 Page 357	N.A. 1927	46° 09' 08.92 " 123° 23' 03.36 "	[illegible]		275.4 (1577.2) 72.1 (1215.4)	
			The following station was recovered but not identified for use in the radial plot.				
5 (USE)(Wash.) 1936	G-3422 Page 332	N.A. 1927	46° 09' 03.964" 123° 21' 43.483"			122.4 (1730.2) 933.1 (354.5)	

1 FT. = .3048006 METER

COMPUTED BY: F. H. Elrod DATE 9/20/49 CHECKED BY: J. L. Harris DATE 9/21/49

M-2388-12

MAP T- 9272 PROJECT NO. Ph-50(49) SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
J (USE) (Wash.) 1936	G-3422	N.A.	46° 09' 09.897"	dist fr this?	= 1105	305.6	(1547.0)	H # 1105
	Page 329	1927	123° 17' 27.709"		= 4417	594.6	(692.9)	
Peat Tree (USE)	G-3422	N.A.	46° 08' 25.059"			773.7	(1078.9)	
(Oreg) 1936	Page 331	1927	123° 16' 46.033"			988.0	(299.8)	
	G-3422	N.A.	46° 08' 18.713"			577.8	(1274.8)	
GUS (ORE.) 1936	Page 329	1927	123° 18' 45.906"			985.3	(302.5)	
			The following stations were used as horizontal control and are considered recoverable topographic stations since they					see pp 20-22
			have either been rebuilt since a triangulation position was established or they are stations established by other agencies and not tied into a USC&GS triangulation scheme.					
Dike 67.0, dolphin north end, (Wash.) 1936 ~~1947~~	G-3422	N.A.	46° 09' 01.334"			41.2	(1811.4)	Hy # 1109 B = △
	Page 346	1927	123° 18' 51.922"			1114.2	(173.4)	
Dike 66.4, dolphin north end (Wash-Ore.)	U.S.	N.A.	46° 09' 04.131		Topo	127.5	(1725.0)	H# 1107B 524
	Engrs.	1927	123° 18' 16.037			344.2	(943.4)	
Wal (Ore.) (1936) 1949	G-3422	N.A.	46° 08' 21.960"			678.0	(1174.6)	H# 1100 C 524
	Page 329	1927	123° 16' 50.396"			1081.7	(206.1)	
SHALE (USE)	U.S.	N.A.	46° 09'			136.7	(1715.9)	H# 1101 524
1949	Engrs.	1927	123° 16'			1068.2	(219.4)	
Westport Dike 66 Light 1949	G-3422	N.A.	46° 08' 27.974"			863.7	(988.9)	H# 1110 524
	Page 346	1927	123° 18' 43.603"			935.9	(351.9)	
Cathlamet Channel Dike, north end Light (Wash-Ore) 1949	G-3422	N.A.	46° 09' 01.400"			43.2	(1809.4)	H# 1105 B 524
	Page 347	1927	123° 17' 46.509"			998.1	(2389.5)	
Dike 67.0 Dolphin South End, 1949 (Wash-Ore.) 1936	G-3422	N.A.	46° 08' 50.593"			1562.1	(290.5)	1110 B 524
	Page 345	1927	123° 18' 58.474"			1254.9	(32.7)	

Page 16

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: F. H. Elrod DATE 9/20/49 CHECKED BY: J.L. Harris DATE 9/20/49

MAP T-9272 PROJECT NO. Ph-50(49) SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
			The following station was recovered but not identified for use in the radial plot.				
CAPE HORN 2 (Wash.) 1936			46° 09' 08.100" 123° 17' 12.115"			250.1 (1602.5) 260.0 (1027.6)	
Lace 2. 1950 dm	G-8894 p. 1110	N.A. 1927	46 08 51.828 123 13 56.585			1600.2 1214.4	
Ford 1950 dm	"	"	46 08 29.733 123 15 51.840			918.0 1112.6	
Reka 1950 dm	"	"	46 09 39.757 123 14 04.752			1227.5 102.0	
Stru 1950 d	"	"	46 09 55.070 123 14 22.519			1700.3 482.1	
Eureka Dike Lower Lt. 1950 d	"	"	46 09 59.900 123 13 25.575			1849.5 548.7	
Eureka Lower Dike Light 1950 d	1111	"	46 09 47.723 123 13 55.618			1473.5 1093.2	
Wallace Island Light 1950 d	"	"	46 08 53.938 123 13 46.912			1665.4 1006.8	
Eureka Light 1950 d	"	"	46 10 02.841 123 14 06.348			87.7 186.2	
Waterford Light 1950 d	"	"	46 09 10.83 123 15 56.86			334 1220	

1 FT. = .3048006 METER

COMPUTED BY: F. H. Elrod DATE 9/20/49 CHECKED BY: J.L. Harris DATE 9/21/49

M-2388-12

COMPILATION REPORT
Map Manuscripts T-9270 to T-9272 Inclusive
Project Ph-50(49)

These three map manuscripts, showing shoreline surveys of a portion of the Columbia River, have practically identical characteristics and their compilation may be adequately described in a combined report.

31: DELINEATION:

Refer to side heading 31: "Delineation" of the Compilation report for T-9254 to T-9265 inclusive, Project Ph-50(49).

32: CONTROL:

Refer to side heading 32: "Control" of the Compilation Report for T-9254 to T-9265 inclusive, Project Ph-50(49).

33: SUPPLEMENTAL DATA:

Prints on clear acetate of the 1936 topographic surveys Scale 1:10,000 were furnished this office as follows: T-6522b, T-6523a, T-6523b, and T-6524.

Because of the drastic changes in shoreline and other details in this area these surveys were of little use for the compilation work.

A print furnished by the Portland District of U. S. Engineers showing water profiles Columbia River, Mouth to Bonneville, Scales: Hor. 1"= 4 miles, Vert. 1"= 4 feet was used for computing the high-water line of this area. Copy attached

34: CONTOURS AND DRAINAGE:

Inapplicable.

35: SHORELINE AND ALONGSHORE DETAILS:

The mean high-water line was adequately located by the field party in August 1949 on single lens photographs taken when the river was at a low-water stage after the 1948 Columbia River Flood. It is believed that the high-water line is about ± 7.4 ft. above M.L.L.W., (i.e. MLLW at end of jetty, Columbia River mouth).

Therefore:

At Eagle Cliff HWL = ± 4.9 ft	above adopted LW plane (Col. River)	T-9272
At Wauna " = ± 5.47 ft	" " " " " "	T-9271
At Skamakawa " = ± 5.95 ft	" " " " " "	T-9269
At Cathlamet " = ± 5.56 ft	" " " " " "	T-9270

(USE profile, attached hereto)

Refer to side heading 35: "Shoreline and Alongshore Details" of the compilation report for T-9254 to T-9265 inclusive Project Ph-50(49), for additional facts.

Areas that bare during low-water stages and approximate shoal areas were delineated for the most part by office examination of the photographs.

Alongshore details were excellently delineated by the field inspection party.

36: OFFSHORE DETAILS:

Since the hydrographic work was done prior to the final compilation of the shoreline surveys it is assumed that any offshore feature not delineated by field inspection or which cannot be easily seen on the photographs has been located by the Ship "HODGSON".

37: LANDMARKS AND AIDS:

The Ship "HODGSON" has been furnished Forms 524 for all aids to navigation, in the area, for which geographic positions of at least 3rd order accuracy are not available. It is understood, by this office, that Forms 567, "Landmarks and Aids to Navigation" will be executed and submitted by the Ship "HODGSON" for this area.
Ch. Let. No. 983 (1950)
397 (1950)

38: CONTROL FOR FUTURE SURVEYS:

For facts relative to former triangulation stations which are now classified as Recoverable Topographic Stations refer to the Photogrammetric Plot Report, Item 23: "Adequacy of Control".

Fifty Forms 524 have been submitted to the Ship "HODGSON". A list of these stations is attached to this descriptive report.

Seventy-one photo-hydro stations were radially plotted and submitted to the Ship "HODGSON". A list giving the station numbers and descriptions according to map manuscripts is attached to this descriptive report. Pages 20 (23) to 22 (24), incl.

39: JUNCTIONS:

Satisfactory junctions have been made between all map manuscripts covered by this descriptive report.

40: HORIZONTAL AND VERTICAL ACCURACY:

There are no submormal areas of horizontal accuracy. Vertical accuracy is not applicable.

46: COMPARISON WITH EXISTING MAPS:

A visual comparison was made with the 15 min. topographic quadrangles Clatskanie, Wash-Ore. and Cathlamet, Ore-Wash, Scale 1:62,500 Published 1941. In general the shorelines along the bluffs are in good agreement. The quadrangles appear at a higher water plane and therefore do not show the offshore features as detailed as the map manuscripts.

A contact comparison was made with prints on clear acetate, Scale 1:10,000 of the 1936 topographic surveys, T-6522b, T-6523a and T-6524.

The outstanding differences noted were the numerous changes in the shape of the shoreline and the building up of new islands in the vicinity of Eureka Bar Dike Light.

47: COMPARISON WITH NAUTICAL CHARTS:

Since the source of the shorelines on nautical chart 6152, Scale 1:40,000, last printed 7/4/49, issued 8/29/49, appears to be from the 1936 topographic survey, the same differences as mentioned in paragraph 46 are applicable.

48: GEOGRAPHIC NAMES:

There was no geographic names inspection furnished this office for the area. Names shown on the map manuscripts were obtained from nautical charts and topographic quadrangles of this area.

49: NOTES TO THE HYDROGRAPHER:

There were many conferences between the officers of the Ship "HODGSON" and the Chief of Party and personnel of this office. All phases of the work were completely discussed and all information needed for the hydrographic work has been furnished to the Ship "HODGSON". The map manuscripts and attending data have been turned over to the Ship "HODGSON".

A tabulation of recoverable topographic stations and photo-hydro stations is attached for the purposes of a permanent record.

Approved:
Charles W. Clark
Charles W. Clark
Chief of Party

Respectfully submitted:
J. Edward Deal Jr.
J. Edward Deal, Jr.
Cartographer

RECOVERABLE TOPOGRAPHIC STATIONS
Map Manuscripts T-9270, T-9271 and T-9272
Project Ph-50(49)

Topo. Number	Photo.	Name and Description	
1100	4416	Wallace Slough, Red Barn, Cupola, 1949.	T-9272
1100 F	4416	WAL, 1936: White flag over station.	"
1101	4418	SHALE (U.S.E.) White wooden signal stand. = SHALE, 1949 (d) on H-7720, but not the same as AIC (USE) 1950 on H-7862	"
1105 B	4437	Cathlamet Channel Dike North End Light, 1936.	T-9272
1106 B	4437	Dike 66.0, Dolphin south end, 1949.	"
1107 B	4437	Dike 66.4, Dolphin north end, 1936.	"
1108	4415	Upper white barn cupola, 1949.	"
1108 B	4437	Cathlamet Channel Dike, South End Light, 1949.	"
1110	4414	Westport, Dike 66 Light, 1936.	"
1110 B	4437	Dike 67.0, Dolphin south end, 1949.	"
1112	4415	Middle red barn cupola, 1949.	"
1112 B	4439	LOW (U.S.E.) RM #1.	T-9271
1114	4415	Lower red barn cupola, 1949.	T-9272
1116	4414	Dike 67.1, Dolphin north end, 1949.	T-9271
1118	4439	Westport Dike 4 Light, 1936.	"
1122	4439	Westport Bar Dike 2 Light, 1949.	"
1124 B	4508	Dike 69.8, Dolphin northeast end, 1949.	"
1125	5124	Cathlamet Channel 5 Light, 1949.	T-9270
1126	4441	Westport, Range Front Light, 1949. (Light reported destroyed since 1948 photo.)	T-9271
1126 B	4508	Pancake Point Dike Light, 1949.	"
1127 E	4508	Pancake Bar Dike East End Dolphin (U.S.E.).	"

Topo. Number	Photo.	Name and Description	
1128	4507	Westport Range Rear Light (U.S.E.).	T-9271
1128 B	4508	Dike 70.2, Dolphin west end, 1949.	"
1128 E	4508	Pancake Bar Dike, West End Light, 1949. Discontinued 1951	"
1129	4492	Silver Oil Storage tank, 1949.	T-9270
1129 B	5125	Cathlamet Channel 6 Light, 1949.	"
1130	4507	Wauna Range Front Light (U.S.E.).	T-9271
None	4507	Wauna Range ~~Front~~ Rear Light, (U.S.E.), 1949.	"
1130 E	4508	Daybeacon, west end, Dike 70.8.	"
1132 E	4509	Dike 71.2, dolphin west end, (U.S.E.).	T-9270
1134 B	4510	Dike 71.2 A, dolphin west end (U.S.E.).	"
1134 E	4509	Wauna Channel, dike dolphin, west end, 1949.	"
1136 E	4511	Wauna Light, 1949.	"
1136 G	4507	Westport Slough Rear Range Light, 1949.	T-9271
1138 B	4510	Dike 71.8, dolphin west end, (U.S.E.).	T-9270
1138 G	4507	Westport Slough, Front Range Light, 1949	T-9271
1140 B	4511	Dike 72.2, dolphin, west end (U.S.E.).	T-9270
1141	5122	Lower church spire, 1949.	"
~~1142~~	4508	Driscoll Range Front Light, ~~1949~~ 1950. Removed during review. Now (1950) Front & Rear Light lights plotted from sextant fix data. (Ch.L.#344,1950)	T-9271
1142 B	4511	Dike 72.4, dolphin west end, (U.S.E.).	T-9270
1144 B	4511	Puget Island 3 Light (U.S.E.).	"
1146	4543	Tank on red frame tower, 1949.	T-9271
1147	5120	Octagon, roofed barn, 1949.	T-9270
* 1148	4543	Upstream twin black stack, 1949. Ldmk 150'	"
1148 B	4511	Puget Island Light (U.S.E.).	"

Topo. Number	Photo.	Name and Description	
* 1150	4543	Downstream twin black stack, 1949. Ldmk 150'	T-9270
1153 D	4490	Cathlamet Channel 4 Light, 1949.	"
1164	4540	Bugby Hole Light (U.S.E.).	"
1166	4538	Clifton Dike, south end light (U.S.E.).	"
1168	4514	Clifton Dike, North End Light (U.S.E.).	"

* Twin stacks

4422	Pin 1950	T-9272
"	Pine Tree 1950	"
4420	Jet 1950	"
4894	Rest 1950	"
4421	BMI (1937) 1950	"
4420	Cooper Point Front 1950	"

PHOTO-HYDRO STATIONS
Map Manuscripts T-9270, T-9271 and T-9272
Project Ph-50(49)

Hydro. Number	Photo	Name and Description
1102	4398	Dolphin #44716, with white flag over white wrap. T-9272
1103	4418	Whitewash on large rock downstream of 2. = No. 257 (F.I. photo 4396) = Hid on H-7862 "
1104	4415	Whitewash on old broken dolphin, downstream of 2. "
1106	4415	Boards nailed to large lone cottonwood tree. "
1107	4437	Whitewash on rock. "
1109	4437	Whitewash on rock. "
1111 B	4439	Whitewashed dolphin (Not a photo location. To be located by Ship "HODGSON"). = Ice on H-7720 is approximately 185 m NE of the area marked on the F.I. photo
1113	4453	River gable yellow house. Rejected (Slim angle cut). 9270
1113 B	4439	Whitewash on center dolphin in a row of piling. (Not a photo location. To be located by Ship "HODGSON") T-9271 This dolphin is not shown on H-7720, though an unnamed lone pile is shown 60 mm SW of the area marked on the F.I. photo.
1114 B	4439	Roots of dead snag. (Hydro note: Use with caution; ground identification may be in error.) T-9271
1115	4453	White flag over white wrap on dolphin.
1115 B	5126	Downstream end dolphin of a row of piling. (Not a photo location. To be located by Ship "HODGSON").
1116 B	4439	Crossed banners on post. (Not a photo location. To be located by Ship "HODGSON".) = Six on H-7720? T-9271 Point not on T-9271 ms.
1117	4453	White washed dolphin. T-9270
1117 B	5126	River gable of building. "
1118 B	4439	White wrap on large leaning cottonwood tree. (Not a photo location, to be located by Ship "HODGSON"). T-9271 = Dig on H-7720 ? Not on T-9271 ms.
1119	5125	White crossed banners on offshore of 2 stub piles. T-9270
1119 B	5126	Downstream gable of downstream floathouse of 3. "

Photo hydro stations bearing numbers in the 200-series (T-9272) are listed and described in Descriptive Report T-9510, pp. 16-18.

Hydro. Number	Photo.	Name and Description	
1120 B	4451	River gable large grey shed.	T-9271
1121 B	5126	River and downstream corner of a group of piles (Not a photo location, to be located by Ship "HODGSON".)	"
1122 B	4451	River gable, shed offshore of 2.	"
1123	5124	Whitewash on large isolated offshore rock.	T-9270
1123 B	5126	River gable shed on piling.	"
1124	4497	Whitewashed dolphin. (Rejected, slim cuts.)	
1125 B	5126	Upstream of 2 tall piling.	
1127	4492	Intersection of vertical, angular cliff wall with water, Whitewash on point.	"
1127 B	4494	Downstream gable shed on pier.	"
1128 G	4507	Offshore dolphin, unmarked.	T-9271
1129 G	4507	Dolphin, downstream from end of line of piling.	T-9271
1130 B	4508	River gable, red house on piling.	"
1131	4492	Upstream end south bridge pier.	T-9270
1131 B	4494	Offshore of 3 dolphins, unmarked.	"
1131 E	4509	Unflagged dolphin stub, remains of "Dike 71.2 Dolphin east end".	"
1131 G	4507	Flagged dolphin.	T-9271
1132 B	4509	Dike 70.2, dolphin west end, white flag.	T-9270
1133	4492	Upstream end, north bridge pier.	"
1133 B	4494	Offshore of 2 dolphins, white flag over white wrap.	"
1133 E	4510	Whitewashed dolphin.	"
1133 G	4507	Whitewashed dolphin.	T-9271
1134 G	4507	Downstream river corner of dock.	T-9271

Hydro. Number	Photo.	Name and Description	
1135 B	4493	River gable shed on piling.	T-9270
1135 E	4510	White flag on offshore of 3 dolphins.	"
1135 G	4507	Lone pile, upstream end of sandbar.	T-9271
1136 B	4510	River dormer on house.	9270
1137	5120	Elevated cylindrical gas storage tank, upstream end of gas storage depot.	"
1137 B	4493	River gable, upper red house on piling.	"
1139	4491	Upstream gable of warehouse, green patch at signal corner of roof.	"
1139 B	4492	River gable, lower red house on piling.	"
1140 G	4507	River gable, old leaning shed.	T-9271
1141 B	4492	Small elevated cylindrical tank.	9270
1143	4491	River gable shed, yellow bar in front.	"
1143 B	4491	Unmarked dolphin offshore of 3. (Not a photo location, to be located by Ship "HODGSON".)	"
1144	4509	White, red, white flag on old broken dolphin.	T-9271
1145	4490	River gable, shed on wharf.	"
1145 B	4491	Whitewashed dolphin.	"
1146 B	4511	River gable shed.	9270
1147 A	4490	Dolphin with white wrap.	"
1147 B	4491	Lone tall pile at edge of sand bar.	"
1149	4490	White wrap with red flag on dolphin.	"
1149 A	5120	Small open topped water tank.	"
1149 B	4490	River gable, large barn, river side and downstream of 2.	"
1151 B	4490	Upper dike dolphin, east end of small dike, unmarked.	"
1153 B	4490	Lower dike, dolphin, east end of small dike, unmarked.	"
1153 C	4490	River gable shed.	"

Hydro. Number	Photo.	Name and Description
1154	4543	White flag on dolphin remnants. 9270
1154 D	4490	white Banner on upstream and offshore corner of log dump. (Use with caution.) Ident. may be in error "
1155 B	4513	Offshore and downstream corner of old broken piling white flag. "
1156	4543	Whitewash on old dolphin. "
1157 B	4513	Silo, river side of barn. (Rejected slim cuts.) "
1158	4540	Upstream gable, small RR building. "
1159 B	4513	Downstream gable grey building. "
1160	4540	Whitewash on river end of large driftwood log. "
1162	4540	White banner on post. "

From 1950 Hydro. work (H-7862)

No1 New Dolphin (SW of Eureka Lower Dike Light) T-9272
Whitewashed target in tree. Cab. Vol. 1, p.4 "
Yellow flag, whitewashed boulder. Irk. Vol. 1, p.5 "
Whitewashed target on wrecked boat 1m. south of shoreline. Lop. Vol. 1, p 6 "
Whitewashed single pile, D/S end of row. Nod. Vol. 1, p.4 "

Copied from D.A. T-9266-9269, p.44

	Photo		
001	4538	USE. U/S dolphin Bradley-Woodward Lumber Mill Dock.	T-9270
002	"	Dan. D/S " " " " " "	"
003	"	--- Whitewashed log raft dolphin	"
004	"	--- " " " "	"
005	4537	--- " dolphin at end of log pond	"
024	4515	Flood (USE) whitewashed boards on tree (unmarked	"
		POLE RM1	42° 51' 30"
		Clifton Dike N. End Light	
		Clifton Dike S. End Light	21° 26' 30"
		(031) Puget Id. Range Front (old) to Pole RM	70° 46' 00"
028	4488	--- Red & white wrapped dolphin	
029	"	--- whitewashed dolphin & white flag	"

Removed during review see Review Rept.

Form T-2

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T-9270 - T-9272

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. ~~Planetable 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 ✓

40. ~~Lee~~ R. H. Barrow
Reviewer

J. Edward Deal Jr.
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-2661-12

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED / ~~XXXXXXXXXX~~ } STRIKE OUT ONE

Washington, D. C. 30 October 19 5

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

The positions given have been checked after listing by K. N. Maki

S. V Griffith
Chief of Party.

STATE / CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LATITUDE D.M. METERS	LONGITUDE ° ′	LONGITUDE D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
Light 1078	Driscoll Rge Front 56		46-09	105.9	123-23	784.9	NA 1927	T-9271 Fix	C.L.344 1950				6152
Light 1079	" " Rear		46-09	201.6	123-23	1154.6	NA 1927	T-9271 Fix	"				"

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. The data should be considered for the charts of the area and not by indiv[illegible]d be given.

Geographic Names

T-9270

Bernie Slough

Brown Slough

Bugby Hole

Cathlamet

Cathlamet Channel

Clifton Channel

Columbia River

Elokomin ~~Channel~~ Slough

Grove Slough

Hunting Islands

Puget Island

Tenasillahe Island

Wauna Channel

Welcome Slough

10/23/52
Nmg

GEOGRAPHIC NAMES

T-9271

Cathlamet Channel

Columbia River

Pancake Pt.

Puget Island

Wauna Channel

Westport

Westport Slough

10/23/52

NMG

GEOGRAPHIC NAMES

T- 9272

BEAVER SLOUGH — on 9510
CAPE HORN
COLUMBIA RIVER
COOPER POINT
EUREKA LT.
WALLACE ISLAND
WALLACE SLOUGH

Names underlined in red are approved.

9-25-52
H. Quimby

Review Report
Shoreline Manuscripts T-9270 to T-9272
27 October 1952

61. General Statement.-The manuscripts in this group were compiled in October 1949 using the field inspection data of July-August 1949 recorded on photographs taken in the fall of 1948 when Columbia River was at its low-water stage.

The manuscripts were received at the Washington Office in January, 1950, and on September 12, 1950 were returned to Portland for use on the ship HODGSON (W. H. Bainbridge commanding.). Additional triangulation and hydrographic control was accomplished during October 1950. This 1950 field work was added to the 1949 manuscripts, which were then returned to the Washington Office in late January 1951.

Junctions: Because of a discrepancy between T-9268-69 and T-9270, a new plot was laid at the Washington Office to check the accuracy of the delineation. Differences were resolved so that the junctions are now in agreement.

62. Comparison with Registered Surveys.-

T-1331	1:10,000	1872	Hunting Id. to Cathlamet Channel T-9270-1-2
T-1401a	"	1874	Cathlamet to Cooper Point T-9270-1-2
T-6242	"	1937	Cathlamet to Cooper Point T-9270-1-2
T-6243	"	"	Cooper Pt. E. to include 2/3 Crims Id. T-9272
T-6522b	"	1936	Price Id. Hunting Id., T-9270
T-6522a	"	"	Hunting Id, Puget Id, Westport T-9270
T-6523b	"	"	Pancake Pt. to Cape Horn T-9271-2
T-6524	"	"	Wallace Id. T-9272
T-6573a	"	1937	Cathlamet Chan. T-9271

The submarine cable on T-9270 between Puget Island and Cathlamet was transferred during compilation from T-6523a, 1936 (as per instructions of 27 June 1949).

63. Comparison with Maps of Other Agencies.-
USE Cathlamet, Ore.-Wash., 1:50,000, 1947, (Photos. 1936)
A cable area and the ferry crossing recorded on the quadrangle between the Oregon mainland and the south shore of Puget Island in the vicinity of Pancake are not on T-9271, H-7720, nor on chart 6152.

Two submarine cables on T-9270 between Puget Island and the Washington mainland at Cathlamet are not on the quadrangle, H-7720, H-7815, nor on chart 6152.

USE Clatskanie, Ore.Wash, 1:50,000 1947 (Photos 1943)

64. Comparison with Contemporary Hydrographic Surveys.-Only visible or field inspected piling and debris were added to the manuscripts during review. This supplements data on the hydrographic surveys. *The following items were reviewed by R.E.E. in the Hydrographic Section and appropriate action taken on effected surveys on 4/14/55 - G.F.d.*

H-7815 1:10,000 1949 Red Slough to Cathlamet. T-9270

A row of piling on H-7815 in front of the wall at Bradwood, between hydro-stations .002 and 003, is not visible on the photographs. It was not transferred to T-9270.

A row of piling along Hunting Island between hydro stations 028 and 029 was not visible on the photographs. It was not transferred to T-9270.

During review hydro-signal 024 (FLOOD, USE) was tested both by radial cuts through the point pricked on field inspection photograph 4515, and by sextant fix data given on the back of the same photograph. (This data is carried in the descriptive report for T-9266-69, page 44).

Signal 024 detailed during compilation seems to have been placed as a result of using Puget Island Range Front Light (new), and the photo point mentioned above falls at shoreline 100 + mm south of the delineated sextant fix point. The point secured by using Puget Island Range Front (old) falls 1¼ mm. southeast of the compilation position. Signal 024 was discarded from T-9270.

H-7720 1:10,000 1949 Cathlamet to Cape Horn T-9270-1-2

1. T-9270: Dolphins and rows of piling along the east side of Puget Island, 46° 09'-10', were not transferred from H-7720 to T-9270 and T-9271 though a few objects that may be piles were descernible on the photographs.

A 1:5,000 copy of photograph 5126 shows a group of piling, north of the row of piling just mentioned, are grouped as indicated on T-9270.

2. T-9271: During review all piling areas and shoreline have been made to conform to the field inspection data.

Because 1950 field work had been entered on neighboring map manuscripts, it was added also to T-9271. The additions are: (Ch. Let. No. 344, 1950), (Ch. Let. No. 397, 1950)

Driscoll Range line
Driscoll Range Rear Light } Forms 524 & 567 submitted
Driscoll Range Front Light }
Westport Slough Range line
Westport Channel Range line
Wauna Range line

The 1949 location for Driscoll Range Front 56 Light was removed, though the pile structure mentioned on Form 524 was retained as "dolphin".

H-7862 1:10,000 1950 Wallace Island - Crims Island
T-9272

Hydro signal 256 was deleted from the map manuscript because no data was found to justify the point pricked.

Hydro signal 257 (see 1103, below)

Hydro signal 258 The point pricked and cut in radially differs 2.38 mm. from the point plotted from sextant fix data (photo 4394). Both points were put on the manuscript with dashed circles (to afford information to charts) and a marginal note added to indicate they are not to be carried on the smooth drafted map. The radially plotted position corresponds to VIM on H-7862.

Hydro signal 259 (changed to 257, data on field photograph 4396)

Hydro signal 260 This signal had been removed from the manuscript by the compiler. The point was cut in and redelineated during review and the sextant fix data used to check its location. The manuscript had signal 1103 (i.e. 257) labeled 1103-259. This may have been the reason the sextant fix point for No. 260 did not agree with the compiler's radial point.

Hydro signal 266, river gable of barn. This point was replotted during review. It was moved 1.8 mm. northeastward, thus establishing a proper relationship between neighboring signals, the dike, and the shoreline.

Hydro signals 267 and 268 on the manuscript are not in agreement with those on H-7862. The manuscript locations should be accepted.

Hydro signal 1101 SHALE, 1949 (d) on H-7720 (see note on back of page 16, descriptive report T-9510). The point 1101 just inside the HWL (field photograph 4418) was pricked and cut in radially during review. This point fell within 0.25 mm. of the point plotted from the USE position recorded on Form 524 and submitted with the manuscript. Because the field inspector had indicated that the pricking was "approximate" and because the USE values coincided with the point SHALE 1949 (d) on H-7720, the signal 1101 (ALE, 1949) was entered in the USE position on map manuscript T-9272 during review.

The point ALE (USE) 1950 on H-7862 is not the same point, and the sextant fix data Vol. 1, p. 10 needs to be considered for discard.

65. Comparison with Nautical Charts.-

6152 1:40,000 July 1944 (23rd ed) rev. Jan. 1951
Because the chart is based on a former survey, it conforms only partially to T-9270-9272.

T-9270: Puget Island roads were not added during review, in compliance with project instructions, though neither the chart nor the quadrangle are adequate for present conditions.

T-9271: The 15 foot dike back of the Oregon shoreline continues westward nearly to the dike 67.9 locality. The road seven on the dike continues westward to the vicinity of Westport Range Front Light where it turns southward. It was added during review.

The peninsula of land between Westport Slough and Columbia River is not a marsh as shown on the chart.

T-9272: The road and 15 foot dike back of the Oregon shoreline was delineated during review because it is a new feature since the former survey upon which chart 6152 is based.

Eureka Channel Light is not on the map manuscript. It was rebuilt in 1950.

66. Accuracy.-The manuscripts meet the requirements of the project instructions, they fully utilize field inspection data, and meet the National Standards of Accuracy.
Reviewed by:

Lena T. Stevens
Lena T. Stevens

APPROVED

L C Lady 29 Nov 1954
Chief, Review Section
Div. of Photogrammetry

H. E. Johnston
Chief, Nautical Chart Branch
Div. of Charts GFU

Max Hicketts
Chief, Div. of Photogrammetry

Earl D. Hanson
Chief, Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T-9270 to T-9272

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6/15/50	3361-A	John M. McAlinden	Before ~~After~~ Verification and Review completely applied
2/52	6152 Reconstr.	GHC	Before ~~After~~ Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.

NAUTICAL CHARTS BRANCH

SURVEY NO. T-9272

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5/10/50	3361	Goodrich	Before ~~After~~ Verification and Review Completely applied
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.