

10360

diag

Diag. Cht. Nos. 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-10360

LOCALITY

State Oregon

General locality Columbia River

Locality Warrenton

1955-1958

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

MAY : 1962

DATE

USCOMM-DC 5087

10360

DESCRIPTIVE REPORT - DATA RECORD

T - 10360

Project No. (II): Ph-155

Quadrangle Name (IV):

Field Office (II): Astoria, Oregon

Chief of Party: V. Ralph Sobieralski

Unit Chief: W. P. James

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): 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):

3/27/62

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

Reference Station (III): SKIPAN 2 (USE) 1956

Lat.: 46° 10' 54.951"

Long.: 123° 54' 14.977"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Oregon

Zone: North

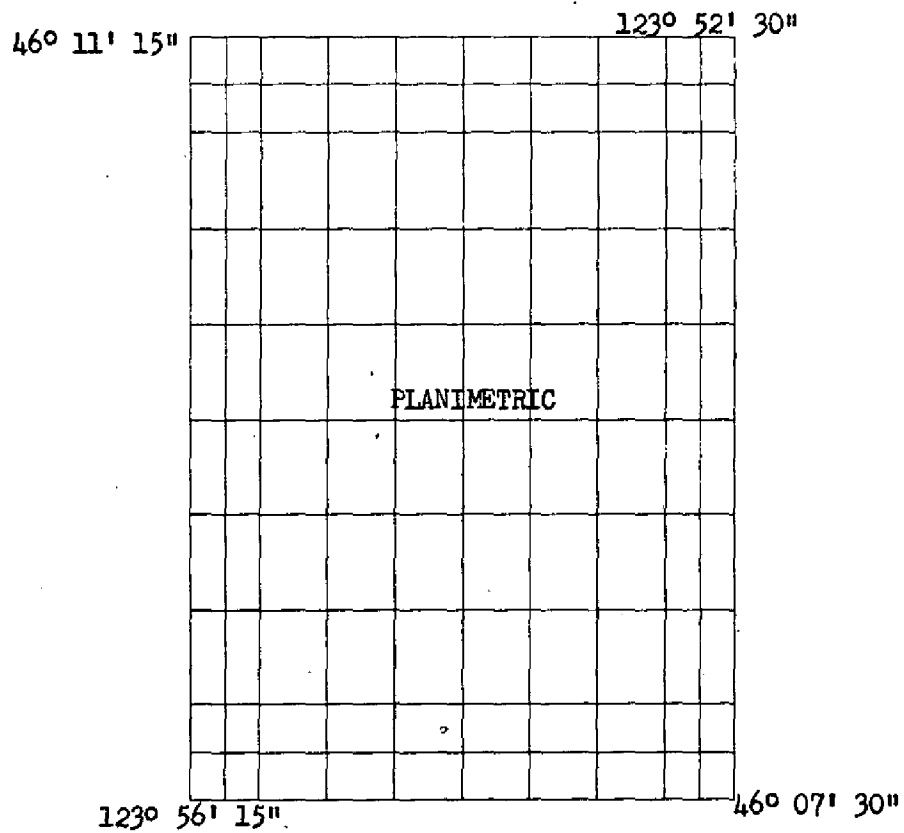
Y= 935,208.16

X= 1,137,877.11

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. D. Upham & W. P. James

Date: Sept. 1957

Planetable contouring by (II):

Date:

Completion Surveys by (II):

*Supplementary aid
determination*

Date: 1958

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

Projection and Grids ruled by (IV): J. B. Phillips

Date: 8-30-57

Projection and Grids checked by (IV): J. B. Phillips

Date: 8-30-57

Control plotted by (III): L. L. Graves

Date: 11-19-57

Control checked by (III): D. N. Williams

Date: 11-20-57

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

Date: 10-28-57

Stereoscopic Instrument compilation (III):
Planimetry D. N. Williams
Contours

Date: 1-3-58
10-17-58
Date:

Manuscript delineated by (III):
D. N. Williams, Scribing
C. C. Harris, Stick-up

Date: 3-17-60
7-8-60

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

Date: 8-30-60

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 Single lens camera "W" & "L"

Number	Date	Time	Scale	Stage of Tide
55-W-8594 & 8595	6-6-55	11:02	1:10,000 ratio	3.3' above M.L.L.W.
55-W-8601 & 8602	"	11:06	"	"
55-W-9779 thru 9781	9-24-55	11:40 ⁸	1:25,000 contact	3.0' Above M.L.L.W.
55-W-9786 thru 9788	"	11:58	"	"
57-L-1822	8-18-57	14:45	1:10,000 ratio	5.5' above M.L.L.W.

Tide (III)

Reference Station: Astoria (Tongue Point) Oregon
Subordinate Station: Warrenton, Skipanon River, Oregon
Subordinate Station:

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
	6.5	8.2
	6.5	8.3

Washington Office Review by (IV):

Date: 2/23/62

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 11
Shoreline (More than 200 meters to opposite shore) (III): 14
Shoreline (Less than 200 meters to opposite shore) (III): 6
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 19 Recovered: 10 Identified: 8
Number of BMs searched for (II): 8* Recovered: 7 Identified: 3
Number of Recoverable Photo Stations established (III): 1**
Number of Temporary Photo Hydro Stations established (III): None

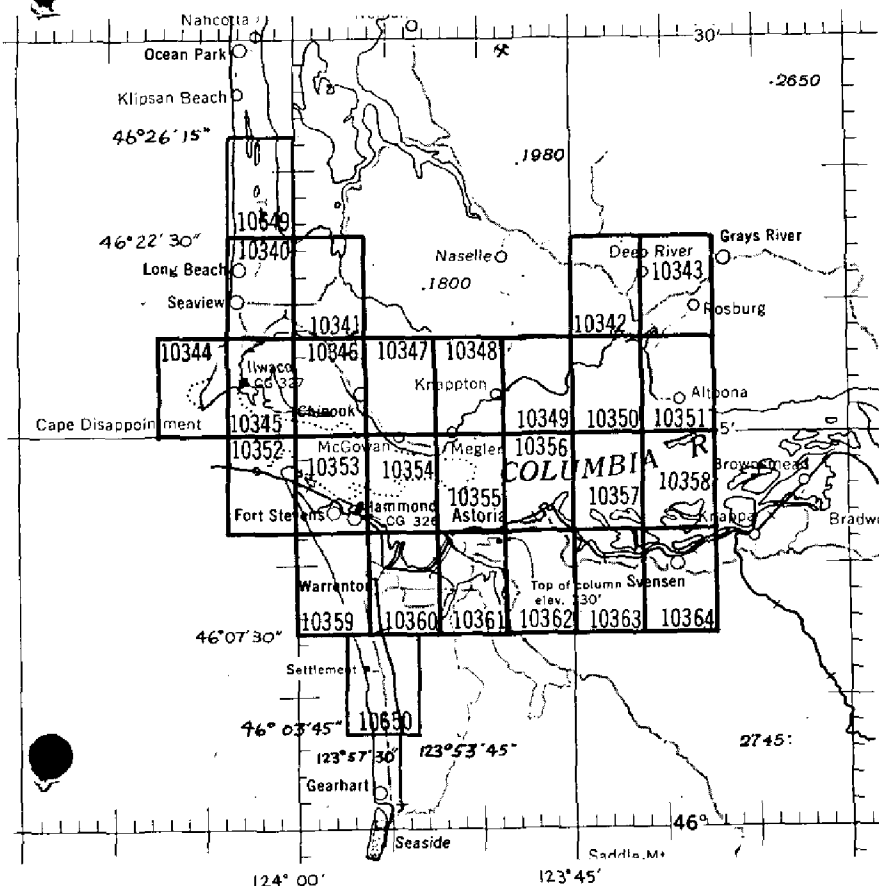
Remarks:

* 7 Tidal
1 P.P. & L. Co.

** Now located by C. of E. Triangulation

PLANIMETRIC PROJECT PH-155

MOUTH OF COLUMBIA RIVER, WASH.-OREGON



OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	LIN. MI. SHORE 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-10360

Project Ph-155

Refer to Field Inspection Report for Project Ph-155, Mouth
of Columbia River to Altoona, July to November 1957. (10 T-10649)

A18

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10360

Project Ph-155

Refer to the Stereoplanigraph Bridge Reports for Strips
#1 and #2 which are included in the Descriptive Report for T-10353
(1957).

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

MAP T. 10360 PROJECT NO. Ph-155 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR α -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)	
P-10 P.P. & L. Co. 1935 (use)	Oreg.N. Office Comp.	N.A. 1927	914,733.36 1,131,441.02	4733.36 (266.64)			1442.7 (81.3)		
DO Sub Station	"	"	914,823.61 1,131,428.77	4823.6 (176.39)			1470.2 (53.8)		
S-100 P.P. & L. Co. 1935 (USE)	Oreg.N. Office Comp.	"	926,941.92 1,130,915.57	1941.92 (3058.08)			435.5 (1088.5)		
DO Sub Station	"	"	926,712.29 1,130,945.70	915.57 (4084.43)			591.9 (932.1)		
WARRENTON BLACK TANK, 1935	Oreg.N. 214	"	931,746.37 1,135,105.20	1712.29 (3287.71)			279.1 (1244.9)		
YOUNGS BAY ENTRANCE LIGHT, 1951	Oreg.N. Office Comp.	"	934,643.69 1,144,375.91	945.70 (4054.30)			521.9 (1002.1)		
SKIPANON WATERWAY WEST LIGHT, 1951	"	"	936,186.03 1,137,220.32	1746.37 (3253.63)			288.2 (1235.8)		
Q-100 P.P. & L. Co. 1935 (USE)	"	"	934,082.60 1,131,693.70	105.20 (4894.80)			532.3 (991.7)		
DO Sub Station	"	"	934,100.55 1,131,731.85	4643.69 (356.31)			32.1 (1491.9)		
SKIPANON WATERWAY LIGHT, 1951	"	"	936,012.51 1,137,800.45	4375.91 (624.09)			1415.4 (108.6)		
SKIPANON WATERWAY REAR RANGE LIGHT, 1951	P-1130	"	46 09 53.90 123 54 54.93	1186.03 (3813.97)			1333.8 (190.2)		
SKIPAN 2 (USE) 1956	Office Comp.	"	935, 208.03 1,137,877.60	2220.32 (2779.68)			361.5 (1162.5)		
				4082.60 (917.40)			676.8 (847.2)		
				1693.70 (3306.30)			1244.4 (279.6)		
				4100.55 (899.45)			516.2 (1007.8)		
				1731.85 (3268.15)			1249.8 (274.2)		
				1012.51 (3987.49)			527.9 (996.1)		
				2800.45 (2199.55)			308.6 (1215.1)		
							853.6 (670.4)		
							1664.2 (188.3)		
							1178.5 (108.7)		
							63.4 (1460.6)		
							877.1 (646.9)		

1 FT. = 3048006 METER

COMPUTED BY: J.E.D.

DATE 10-14-57

CHECKED BY: D.N.W.

DATE 10-17-57

COMM-DC-57843

SCALE FACTOR None

1 FT. = 3048006 METER	DATE	10-14-57	CHECKED BY	D.N.W.	DATE	10-17-57
COMPUTED BY	J.E.D.					

COMM-DC-57843

COMPILATION REPORT

Map Manuscript T-10360

Project Ph-155

Items 31 and 32:

Refer to Descriptive Report for T-10359 (1957).

33. Supplemental Data:

Description City Limits of Hammond, Oreg.

6 Blueprints - Scale 1" = 400' and 1" = 200', Sections 4, 9, 29, 32 and 33 of T-7N R-10-W and T-8N R-10-W.

Fort Stevens Management Area, Scale 4" = 1 mile.

City of Warrenton, Scale 1" = 1000' Approx.

Map of Hammond, Scale unknown.

34. Contours and Drainage:

Contours are not applicable.

Most of the drainage was field inspected. Any drainage not field inspected was interpreted in the compilation office assisted by reference to the Warrenton, Oreg. - Wash. 7½ minute U.S.G.S. quadrangle.

35. Shoreline and Alongshore Details:

Refer to Descriptive Report for T-10359 (1957).

36. Offshore Details:

There are numerous piling and dolphins offshore in the Skipanon Waterway. One area "foul with piling" is shown offshore in Youngs Bay.

37. Landmarks and Aids:

Forms 567 are submitted for one landmark.

Forms 567 are submitted for five fixed aids to navigation. These have been revised to agree with latest data and the 1961 Pacific Coast Light List.

38. Control for Future Surveys:

None.

39. Junctions:

Satisfactory junctions were made on the north with T-10354, on the west with T-10359, on the east with T-10361 and on the south with T-10650.

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. 7½ minute Warrenton, Oreg.-Wash. quadrangle, Scale 1:24,000, published in 1953.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 6151, 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
Cartographer

49. Notes to the Hydrographer:

No recoverable topographic stations were located.

Two aids to navigation were located by triangulation observations by C. of E. Refer to Forms 567 for this manuscript.

There are numerous triangulation stations which are fixed aids to navigation or natural objects which were recovered and identified during field inspection.

PHOTOGRAMMETRIC OFFICE REVIEW

T. 10360

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 None 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 None 14. Rocks, shoals, etc. ☒ 15. Bridges ☒ 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 ☒ 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. Edward D. Deal

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.

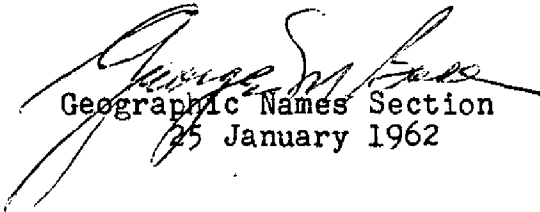
Comptroller_____
Supervisor

43. Remarks:

48. Geographic Name:

Alder Creek
Camp Clatsop Military Reservation
Cemetery Lake
Clatsop Station
Fort Clatsop
Lewis and Clark River
*Neacoxie Creek
*Skipanon River
Skipanon Slough
Skipanon Waterway
Smith Lake
Spokane, Portland and Seattle Railway
Warrenton
Youngs Bay

*B.G.N. Decision


Geographic Names Section
25 January 1962

TO BE CHARTED
~~NONFLOATING AID~~
~~TO BE CHARTED~~

STRIKE OUT TWO

NONFLOATING AID TO NAVIGATION FOR CHARTS

Portland, Oregon 15 Aug., 1961

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

The positions given have been checked after listing by

J. E. Deal

Fred Natella Chief of Party

STATE OREGON			DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
CHARTING NAME	LATITUDE #				LONGITUDE #				DATUM							
	°	'			D.M. METERS	"	D.P. METERS	"								
LIGHT	Shipanon Waterway West Light	1577	46	11	04.322	123	54	24.888	N.A. Triangulation	1951	X	X				6151
LIGHT	Shipanon Waterway East Light (SHIPANON WATERWAY LIGHT, 1951)	1578	46	11	02.852	123	54	533.8	"	1951	X	X				"
LIGHT	Shipanon Waterway Range Front Light	1579	46	10	01.142	123	54	16.547	"	Oct. 1958	X	X				X
LIGHT	Shipanon Waterway Range Rear Light	1580	46	09	35.3	123	54	34.9	"	"	X	X				"
LIGHT	YOUNGS BAY ENTRANCE LIGHT	1581	46	10	23.954	123	54	51.906	C. of E. Triang.	1951	X	X				X
	* Note: #1580 rebuilt in 1958. Located by C. of E. by triangulation Oct. 1958.				1665.9	123	52	54.890	"							"
	* #1579 located by C. of E. by triangulation Oct. 1958.				1807.9			1177.7	"							"
	Position shown on manuscript # 1957 by Kohler Instrument.							42.370	Triangulation							
	(Plotting cannot be changed for #1579)							908.8								
	(Slight change in plotting for #1580)															

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.

* TABULATE SECONDS AND METERS

REVIEW REPORT
T-10352 through 10364 and T-10650
Planimetric December 18, 1961

62. Comparison with Registered Topographic Surveys

Map No.	Scale	Year	Map No.	Scale	Year
317	1:22,962	1850-51	1806	1:10,000	1887
1112	1:10,000	1868	4226	1:20,000	1926
1123	"	1868	4250	"	"
1138	"	1869	4251	"	"
1139a&b	"	1869	4263	1:10,000	1926
1234	"	1870	4264	"	"
1235	"	1870	6521a	"	"
1249	"	1870	6521b	"	1936

The manuscripts covered by this review report supersede the surveys listed above for purposes of nautical chart construction.

63. Comparison with Maps of Other Agencies

Comparison was made with the latest existing maps during the photogrammetric review. Each report lists under "Comparison with Maps, etc." the quadrangles that were used.

64. Comparison with Contemporary Hydrographic Surveys

Where applicable, each map was compared with the latest hydrographic survey. All available hydrographic surveys are unverified. Discrepancies are listed under the heading of each map. If the map is not listed, no discrepancies exist during review.

T-10352 - The submerged rocks shown on the manuscript which appear to once have been part of the jetty were compiled in the photogrammetric office from a U.S. Engineer Survey dated 1956. This feature was not developed by hydro on sheets H-8421 through H-8423. See the Descriptive Report for this survey for details.

T-10354 - A pile is shown on the manuscript above MHW whereas hydro shows this pile submerged at latitude 46°14'37" and longitude 123°55'16". The pile was field inspected.

T-10356 - A rock is shown on the manuscript as awash MHW and on hydro sheet H-8420 as (4) with a position difference of approximately 5 meters. The rock is located at latitude 46°12'45" and longitude 123°45'18". The height of the rock was given by the field inspector.

T-10357 - Piles and/or shags shown on Chart 6151 in the vicinity of latitude $46^{\circ}13'30''$ and longitude $123^{\circ}42'30''$ and latitude $46^{\circ}12'30''$ and longitude $123^{\circ}42'30''$ are not shown on the unverified smooth sheet. They are too far offshore for photogrammetric location.

65. Comparison with Nautical Charts

Comparison was made with Charts 6151 and 6152, 34 Edition October 10, 1960 corrected June 26, 1961. Nautical Charts did not use these surveys for the construction of the new edition. Many minor changes in offshore features and planimetric detail were noted. Only dangers to navigation or significant changes in detail have been noted for each sheet.

T-10354 - Some differences were noted in; shoreline features in the vicinity of Hammond at latitude $46^{\circ}11'30''$, longitude $123^{\circ}56'00''$. The pile area in the vicinity of latitude $46^{\circ}12'30''$, longitude $123^{\circ}52'30''$ is incomplete. It is a shoal area and of no danger to navigation.

T-10361 - A difference exists in the position of a shag at latitude $46^{\circ}11'03''$ and longitude $123^{\circ}51'46''$ in Youngs Bay. Landmark "Drum" should be deleted from Chart as recommended on Form 567.

66. Adequacy of Results and Future Surveys

These maps comply with instructions and meet National Standards of Map Accuracy.

Respectfully submitted:

A. K. Heywood
A. K. Heywood

Approved:

R. C. Lande
Chief, Review and Edit Sec.

Marvin T. Gordon
Chief, Div. of Nautical Charts

J. E. Waugh 6/6/62
Chief, Div. of Photogrammetry

Max B. Roberts
Chief, Div. of Coastal Surveys
Operations

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10360

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.