

12069

orig

Diag. Cht. No. 6450-2.

12069
T

Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY DESCRIPTIVE REPORT	
<i>Type of Survey</i> SHORELINE (PHOTOGRAMMETRIC)	
<i>Field No.</i> Ph-6101	<i>Office No.</i> T-12069
LOCALITY	
<i>State</i>	WASHINGTON
<i>General locality</i>	ADMIRALTY INLET
<i>Locality</i>	FOULWEATHER BLUFF
<u>1960-1961</u>	
CHIEF OF PARTY	
FRED NATELLA	
LIBRARY & ARCHIVES	
DATE	May 1964

DESCRIPTIVE REPORT - DATA RECORD
T - 12069

PROJECT NO. (II): PH-6101			
FIELD OFFICE (III): PORT TOWNSEND, WASHINGTON		CHIEF OF PARTY FRED NATELLA	
		UNIT CHIEF L. F. VAN SCOY	
PHOTOGRAMMETRIC OFFICE (III): PORTLAND, OREGON		OFFICER-IN-CHARGE FRED NATELLA	
INSTRUCTIONS DATED (II) (III):			
	14 MARCH 1961	II, III	
AMENDMENT 1:	8 MAY 1961	II; III	
AMENDMENT 1:	17 MAY 1961	II, III	
AMENDMENT 4:	14 DECEMBER 1962	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	
DATE RECEIVED IN WASHINGTON OFFICE (IV):		DATE REPORTED TO NAUTICAL CHART BRANCH (IV):	
APPLIED TO CHART NO.		DATE:	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III): N.A. 1927		VERTICAL DATUM (III): MEAN SEA LEVEL EXCEPT AS FOLLOWS: X <i>Elevations shown as (25) refer to mean high water</i> <i>Elevations shown as (5) refer to sounding datum</i> <i>i.e., mean low water or mean lower low water</i>	
REFERENCE STATION (III): SQUATTER, 1927			
LAT.: 47° 55' 55.661"	LONG.: 122° 37' 09.584"	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED	
PLANE COORDINATES (IV): 345,090.83 x = 1,562,204.02		STATE WASHINGTON	ZONE NORTH
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.			

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): L. F. VAN SCOY R. B. MELBY		DATE: MAY-JUNE 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): By FIELD INSPECTION JUNE 1961 AND KELSH INSTRUMENT COMPILATION.		
PROJECTION AND GRIDS RULED BY (IV): A. R.		DATE: 4-11-62
PROJECTION AND GRIDS CHECKED BY (IV): A. R.		DATE: 4-16-62
CONTROL PLOTTED BY (III): C. H. BISHOP		DATE: 5-16-62
CONTROL CHECKED BY (III): J. L. HARRIS		DATE: 5-17-62
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): R. J. PUHL		DATE: APRIL 1962
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY D. N. WILLIAMS	DATE: 6-14-62
	CONTOURS	DATE:
MANUSCRIPT DELINEATED BY (III):		DATE:
SCRIBING BY (III): C. C. HARRIS	STICK-UP: L. L. GRAVES	DATE: 9-19-62
		1-7-63
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): J. L. HARRIS, ROUGH DRAFT J. L. HARRIS, ADVANCE		DATE: 6-29-62 2-5-63
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C&GS SINGLE LENS CAMERA "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2053 THRU 2058	9-21-60	12:21	1:30,000	3.6 FT. ABOVE M.L.L.W.
RATIO PRINTS OF ABOVE AT 1:10,000 SCALE.				
COMPUTED FROM PRE-DICTED TIDE TABLES.				

TIDE (III)

		RATIO OF RANGES	MEAN RANGE	DIURNAL RANGE
REFERENCE STATION:	SEATTLE, WASHINGTON		7.6	11.3
COORDINATE STATION:	PORT GAMBLE, WASHINGTON		6.7	10.3
SUBORDINATE STATION:				
WASHINGTON OFFICE REVIEW BY (IV):		DATE:		
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	13	RECOVERED:	IDENTIFIED:	
		10	5	
NUMBER OF BM(S) SEARCHED FOR (II):	0	RECOVERED:	IDENTIFIED:	
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):		2		
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):		4		

REMARKS:

FIELD INSPECTION REPORT

MAP MANUSCRIPTS T-12069

T-12070, T-12071 & T-12072

PROJECT PH-6101

MAY - JUNE 1961

2. AREAL FIELD INSPECTION:

THE SHORELINE IN THIS AREA IS COMMON TO PUGET SOUND, HOOD CANAL AND PORT GAMBLE.

THERE ARE NO RAILROADS IN THE AREA.

AN AUTO-PASSENGER FERRY OPERATES BETWEEN KINGSTON AND EDMONDS.

THE TOWNS IN THE AREA ARE HANGVILLE, EGLON AND LITTLE BOSTON.

FIELD INSPECTION WAS DONE IN ACCORDANCE WITH STANDARD FIELD PROCEDURES. FIELD INSPECTION AND SHORELINE ON THE WEST SIDE OF HOOD HEAD (SHEET T-12069) HAS BEEN INDICATED ON PHOTO 60 W 2038. THIS PHOTO IS NOT BEING SUBMITTED AT THIS TIME, AS IT IS REQUIRED FOR FIELD INSPECTION IN SHEET T-12068.

THE QUALITY OF THE FIELD PHOTOGRAPHS WERE ADEQUATE FOR FIELD INSPECTION. THE CONTACT PRINTS FURNISHED FOR HORIZONTAL CONTROL IDENTIFICATION WERE LACKING IN CONTRAST AS COMPARED TO THE 1:10,000 RATIO PRINTS FURNISHED FOR FIELD INSPECTION. HOWEVER, THE CONTACT PRINTS WERE CONSIDERED ADEQUATE FOR IDENTIFICATION PURPOSES.

3. HORIZONTAL CONTROL:

(A) NO SUPPLEMENTAL CONTROL WAS ESTABLISHED BY THE FIELD PARTY.

(B) NO DATUM ADJUSTMENTS WERE MADE BY THE FIELD PARTY.

(C) CONTROL ESTABLISHED BY OTHER AGENCIES WAS NOT SEARCHED FOR.

(D) ALL STATIONS REQUIRED BY THE PROJECT INSTRUCTIONS FOR CONTROL OF THE PHOTO PLOT WERE RECOVERED AND IDENTIFIED EXCEPT STATION LAGOON, 1934. STATION LAGOON, 1934 WAS SEARCHED FOR AND IT WAS NOT RECOVERED. STATIONS BARNACLE, 1856 AND POINT HANNON LIGHT, 1945 WERE RECOVERED AND IDENTIFIED IN LIEU OF STATION

LAGOON, 1934. THESE THREE STATIONS ARE IN SHEET T-12069.

(E) ALL STATIONS ESTABLISHED BY THE COAST AND GEODETIC SURVEY WERE SEARCHED FOR.

THE FOLLOWING STATIONS WERE SEARCHED FOR AND HAVE BEEN LISTED AS LOST OR DESTROYED.

SHEET T-12069

✓ PORT GAMBLE, RANGE FRONT LIGHT, 1945	FOULWEATHER, 1921
✓ PORT GAMBLE, RANGE REAR LIGHT, 1945	FOULWEATHER 2, 1934
LAGOON, 1934	PASS, 1927 (PROBABLY LOST)

SHEET T-12070

NONE

SHEET T-12071

NONE

SHEET T-12072

NONE

(F) THE QUALITY OF EACH IDENTIFICATION OF EACH STATION OR SUBSTITUTE STATION HAS BEEN INDICATED ON THE CONTROL STATION IDENTIFICATION CARD. NONE OF THE IDENTIFICATION WAS CONSIDERED TO BE SUBSTANDARD.

4. VERTICAL CONTROL:

VERTICAL CONTROL REQUIREMENTS ARE THE RECOVERY OF TIDAL BENCH MARKS. THERE ARE NO TIDAL BENCH MARKS IN THE AREA.

5. CONTOURS AND DRAINAGE:

CONTOURS ARE NOT APPLICABLE.

DRAINAGE IS COMMON TO ALL OF THE AREA. THE COURSES OF THE STREAMS ARE GENERALLY OBSCURED BY THE WOODLAND COVER. THE GENERAL COURSES OF THE STREAMS CAN USUALLY BE DETERMINED BY THE LIGHTER TONES OF THE DECIDUOUS COVER, THAT PREDOMINATES ALONG THE STREAM BEDS. IN OPEN AREAS THE STREAMS HAVE BEEN INDICATED ON THE FIELD PHOTOGRAPHY. MARSH AREAS HAVE ALSO BEEN INDICATED.

6. WOODLAND COVER:

MOST OF THE LAND THAT IS NOT UNDER CULTIVATION OR IN URBAN AREAS IS COVERED WITH A DENSE GROWTH OF MIXED TIMBER. ALONG THE STREAM BEDS THE DECIDUOUS COVER PREDOMINATES, WHILE THE CONIFERS

ARE MORE PLENTIFUL ON HIGHER GROUND AND LESS MOIST AREAS. THE WOODLAND COVER HAS BEEN CLASSIFIED ON THE FIELD PHOTOGRAPHS.

7. SHORELINE AND ALONGSHORE FEATURES:

THE SHORELINE AND ALONGSHORE FEATURES WERE INSPECTED FROM A SMALL SKIFF AND BY WALKING THE BEACH.

(A) THE MEAN HIGH WATER LINE WAS INDICATED ON THE FIELD PHOTOGRAPHS. ITS POSITION WAS DETERMINED BY VISUAL INSPECTION AND BY ITS RELATIVE POSITION TO IDENTIFIABLE SHORELINE FEATURES. IN AREAS WHERE THE TREES AND BLUFFS CAUSE SHADOWS TO OBSCURE THE SHORELINE, THE MEAN HIGH WATER LINE WAS DETERMINED BY PLANETABLE TRAVERSE ON THE FIELD PHOTOGRAPHS.

(B) THE LOW WATER LINE WAS NOT INDICATED ON THE FIELD PHOTOGRAPHS.

(C) THE CHARACTER OF THE FORESHORE HAS BEEN INDICATED ON THE FIELD PHOTOGRAPHS.

(D) THERE ARE NO CLIFFS IN THE AREA. BLUFFS OF VARYING HEIGHTS ARE CHARACTERISTIC OF MOST OF THE COAST. THE BLUFFS ARE SOMEWHAT UNSTABLE AND SLIDES ARE FREQUENT IN SOME AREAS, NOTABLY ALONG FOULWEATHER BLUFF.

(E) SEVERAL SMALL PIERS AND MARINE RAILWAYS FOR THE SERVICE OF SMALL CRAFT ARE FOUND IN THE HANVILLE AREA.

(F) THE INSHORE END OF A SUBMARINE CABLE IN THE VICINITY OF POINT NO POINT HAS BEEN INDICATED ON FIELD PHOTOGRAPH 60 W 2071.

(G) OTHER SHORELINE FEATURES ARE BULKHEADS. THESE HAVE BEEN INDICATED ON THE FIELD PHOTOGRAPHS.

8. OFFSHORE FEATURES:

OFFSHORE FEATURES IN THE FORM OF ROCKS OR PILING HAVE BEEN NOTED ON THE FIELD PHOTOGRAPHS DURING THE SHORELINE INSPECTION.

OFFSHORE ROCKS AND THEIR RESPECTIVE HEIGHTS AS DETERMINED BY THE FIELD PARTY HAVE BEEN INDICATED ON THE FIELD PHOTOGRAPHS.

9. LANDMARKS AND AIDS:

(A) THERE ARE NO CHARTED LANDMARKS IN THE AREA. NO NEW LANDMARKS WERE SELECTED AS NO FEATURES CONSIDERED SUITABLE FOR LANDMARKS WERE FOUND IN THE AREA.

(B) NO INTERIOR LANDMARKS WERE SELECTED.

(c) NO AERONAUTICAL AIDS WERE FOUND IN THE AREA.

(d) ALL FIXED AIDS TO NAVIGATION WERE INVESTIGATED AND HAVE BEEN LISTED ON FORM 567.

(e) FLOATING AIDS ARE NOT APPLICABLE.

10. BOUNDARIES, MONUMENTS AND LINES:

BOUNDARIES AND MONUMENTS ARE NOT APPLICABLE.

THE LIMIT LINES OF CEMETERIES HAVE BEEN INDICATED ON THE FIELD PHOTOGRAPHS. NO PARKS WERE FOUND IN THE AREA.

11. OTHER CONTROL:

OTHER CONTROL ESTABLISHED BY THE FIELD PARTY WAS THE PHOTO-IDENTIFICATION OF NATURAL AND CULTURAL OBJECTS TO BE USED AS PHOTO-HYDRO STATIONS.

12. OTHER INTERIOR FEATURES:

ROADS, PUBLIC BUILDINGS AND BUILDINGS OF LANDMARK VALUE WERE INDICATED ON THE FIELD PHOTOGRAPHS AND CLASSIFIED.

THERE ARE NO AIRPORTS OR AIRFIELDS IN THE AREA.

THERE ARE NO BRIDGES OR OVERHEAD CABLE CROSSINGS OVER NAVIGABLE WATER.

13. GEOGRAPHIC NAMES:

A FORMAL REPORT ON GEOGRAPHIC NAMES IS NOT REQUIRED BY THE PROJECT INSTRUCTION, SUPPLEMENTAL LETTER 6311/AKH/LRW DATED 17 APRIL 1961.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA:

NO SPECIAL REPORTS ARE SUBMITTED:

APPROVED:

J. Edward Deal
for FRED NATELLA, CAPT, C&GS
PORTLAND DISTRICT OFFICER

RESPECTFULLY SUBMITTED:

Charles H. Bishop
(for) LEONARD F. VAN SCOY
SURVEYING TECHNICIAN, C&GS

Charles H. Bishop
(for) ROBERT B. MELBY
SURVEYING TECHNICIAN, C&GS

PHOTOGRAMMETRIC PLOT REPORT

MAP MANUSCRIPT T-12069

PROJECT PH-6101

REFER TO THE PHOTOGRAMMETRIC PLOT REPORT No. 1 BY RAYMOND
J. PUHL, APRIL 1962, INCLUDED WITH THE DESCRIPTIVE REPORT FOR
T-12066.

MAP T. 12069 PROJECT NO. PA-6101 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 DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
					FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
SQUATTER, 1927	WASH.N. P-349	N.A. 1927	345,090.83		90.83						
	"	"	1,562,204.02		2204.02						
BARNACLE, 1856	P-357	"	327,885.81		2885.81						
	"	"	1,571,676.16		1676.16						
COVER, 1934	"	"	342,602.72		2602.72						
	"	"	1,563,428.02		3428.02						
SUB STA. A	OFFICE COMP.	"	342,853.0		2853.0						
	"	"	1,563,405.9		3405.9						
SUB STA. B	"	"	342,811.6		2811.6						
	"	"	1,563,605.3		3605.3						
FOULWEATHER 3, 1954	WASH.N. P-274	"	348,116.15		3116.15						
	"	"	1,566,242.39		1242.39						
HEAD, 1927	P-357	"	328,814.01		3814.01						
	"	"	1,564,055.36		4055.36						
HOODHEAD 3, 1915	P-358	"	329,044.98		4044.98						
	"	"	1,563,442.02		3442.02						
PASS, 1927	P-357	"	325,379.23		379.23						
	"	"	1,561,620.06		1620.06						
POINT HANNON LIGHT, 1945	P-359	"	328,814.38		3814.38						12.
	"	"	1,564,070.02		4070.02						

COMPILATION REPORT
MAP MANUSCRIPT T-12069
PROJECT PH-6101

ITEMS 31 THRU 35:

REFER TO COMPILATION REPORT FOR T-12068.

36. OFFSHORE DETAILS:

HEIGHTS OF NUMEROUS ROCKS WERE OBTAINED BY THE FIELD UNIT AT THE TIME OF FIELD INSPECTION. THESE ELEVATIONS WERE ADJUSTED TO THE VERTICAL DATUM OF THE MANUSCRIPT.

37. LANDMARKS AND AIDS:

THREE NONFLOATING AIDS HAVE BEEN RECOMMENDED FOR CHARTING. ONE IS AN INTERSECTION TRIANGULATION STATION. THE POSITIONS OF THE OTHER TWO AIDS WERE DETERMINED DURING THE ANALYTIC AERO-TRIANGULATION BRIDGING OPERATION. FORM 567 IS SUBMITTED.

38. CONTROL FOR FUTURE SURVEYS:

FOUR PHOTO-HYDRO STATIONS WERE PLOTTED AND SHOWN ON THE MANUSCRIPT. THEY WERE SELECTED AND IDENTIFIED BY THE FIELD PARTY AND THEIR POSITIONS OBTAINED FROM THE AEROTRIANGULATION BRIDGE. THE DESCRIPTIONS AND NUMBERS OF THESE PHOTO-HYDRO STATIONS ARE LISTED UNDER ITEM 49, NOTES FOR THE HYDROGRAPHER.

39. JUNCTIONS:

SATISFACTORY JUNCTIONS WERE MADE WITH T-12068 TO THE WEST AND WITH T-12070 TO THE EAST. THERE ARE NO CONTEMPORARY SURVEYS TO THE NORTH OR SOUTH.

40. HORIZONTAL AND VERTICAL ACCURACY:46. COMPARISON WITH EXISTING MAPS:

COMPARISON WAS MADE WITH THE U.S.G.S. $7\frac{1}{2}$ MINUTE HANSVILLE,
WASHINGTON QUADRANGLE, SCALE 1:24,000, EDITION 1953.

47. COMPARISON WITH NAUTICAL CHARTS:

COMPARISON WAS MADE WITH THE FOLLOWING NAUTICAL CHARTS:

NAUTICAL CHART 6401, SCALE 1:150,000 AT LAT. $47^{\circ} 40'$
1ST ED. 8-10-46, REVISED 10-6-58.

NAUTICAL CHART 6450, SCALE 1:80,000 AT LAT. $47^{\circ} 57'$
12TH ED. NOV. 1961, REVISED 8-6-62.

NAUTICAL CHART 6421, SCALE 1:20,000 AT LAT $47^{\circ} 53'$
1ST ED. NOV. 1945, REVISED 8-8-60.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

NONE.

ITEMS TO BE CARRIED FORWARD:

NONE.

APPROVED:


FRED NATELLA, CAPT, C&GS
PORTLAND DISTRICT OFFICER

RESPECTFULLY SUBMITTED:


JAMES L. HARRIS
CARTOGRAPHER

49. NOTES FOR THE HYDROGRAPHER:

THE APPROXIMATE POSITION OF A SUNKEN ROCK IS SHOWN NORTH OF FOULWEATHER BLUFF. IT'S LOCATION IS TO BE DETERMINED BY THE HYDROGRAPHER. THE FIELD PARTY IDENTIFIED THE FOLLOWING FOUR PHOTO-HYDRO STATIONS WHICH WERE LOCATED BY ANALYTIC AEROTRIANGULATION METHODS.

<u>No.</u>	<u>DESCRIPTION</u>	<u>FIELD PHOTO No.</u>
6901	NORTH GABLE, WHITE HOUSE	60 W 2070
6902	ROCK,	60 W 2056
6903	CHIMNEY ON FLAT ROOF HOUSE, CREAM WITH BLUE TRIM	60 W 2056
6904	ROCK	60 W 2056

PHOTOGRAMMETRIC OFFICE REVIEW

T-10005 T-12069

1. PROJECTION AND GRIDS X		2. TITLE X		3. MANUSCRIPT NUMBERS X		4. MANUSCRIPT SIZE X	
CONTROL STATIONS							
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY X				6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) X		7. PHOTO HYDRO STATIONS X	
8. BENCH MARKS None		9. PLOTTING OF SEXTANT FIXES None		10. PHOTOGRAMMETRIC PLOT REPORT X		11. DETAIL POINTS None	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE X		13. LOW-WATER LINE X		14. ROCKS, SHOALS, ETC. X		15. BRIDGES None	
16. AIDS TO NAVIGATION X		17. LANDMARKS None		18. OTHER ALONGSHORE PHYSICAL FEATURES X		19. OTHER ALONGSHORE CULTURAL FEATURES X	
PHYSICAL FEATURES							
20. WATER FEATURES X				21. NATURAL GROUND COVER X		22. PLANETABLE CONTOURS None	
23. STEREOSCOPIC INSTRUMENT CONTOURS None		24. CONTOURS IN GENERAL None		25. SPOT ELEVATIONS None		26. OTHER PHYSICAL FEATURES X	
CULTURAL FEATURES							
27. ROADS X		28. BUILDINGS X		29. RAILROADS None		30. OTHER CULTURAL FEATURES X	
BOUNDARIES							
31. BOUNDARY LINES None				32. PUBLIC LAND LINES None			
MISCELLANEOUS							
33. GEOGRAPHIC NAMES X				34. JUNCTIONS X		35. LEGIBILITY OF THE MANUSCRIPT X	
36. DISCREPANCY OVERLAY None		37. DESCRIPTIVE REPORT X		38. FIELD INSPECTION PHOTOGRAPHS X		39. FORMS X	
40. REVIEWER James L. Harris				SUPERVISOR, REVIEW SECTION OR UNIT Edward Deal			
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							

48. Geographic Names List

Bywater Bay

Coon Bay

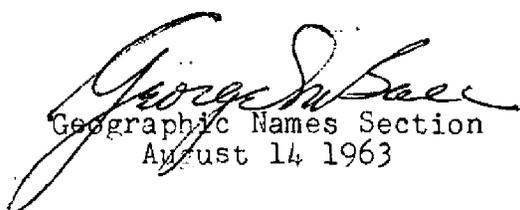
Foulweather Bluff

Hood Canal
Hood Head

Point Hannon
Puget Sound

Skunk Bay

Twin Spits


Geographic Names Section
August 14 1963

Review Report
Shoreline Surveys
T-12068 thru T-12073
November 1963

61. General Statement

These are six (6) shoreline maps of project PH-6101, Admiralty Inlet, Washington. These maps were prepared primarily for the location of non-floating aids and landmarks for the revision of our nautical charts and for control of proposed hydrographic surveys.

62. Comparison with Registered Topographic Surveys

T-1303b	1:10,000	1872
T-1389b	1:10,000	1872
T-4287	1:10,000	1927
T-4307	1:10,000	1927
T-6259	1:20,000	1934

Cultural and shoreline changes have been continuous. These map manuscripts are to supersede the above listed surveys for common area for nautical charting.

63. Comparison with Maps of Other Agencies

Fort Ludlow	1:24,000	1953
Hansville	1:24,000	1953
Port Gamble	1:24,000	1953
Edmonds (East)	1:24,000	1953
Edmonds (West)	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

6401	1:150,000	Oct. 1962
6521	1:20,000	revised to Aug 1960
6450	1:80,000	revised to June 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
L. C. Lande

Approved by:

Charles Keenan
Chief, Photogrammetric Branch

J. C. Waughli 11/31/68
Chief, Photogrammetry Division

[Redacted signature line]

[Redacted signature line]

