#### NOAA FORM 76-35

## U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

## **DESCRIPTIVE REPORT**

Type of Survey Shoreline  Job No. PH-6211 Map No. T-12249  Classification No. Final Edition No I  Field Edited
LOCALITY
State Washington
General Locality Hood Canal
Locality Squamish Harbor
19 62 TO 19 69
REGISTRY IN ARCHIVES
DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1973-761-775

# MAP NOT INSPECTED BY QUALITY CONTROL OF PHOTOGRAMMETRY DIVISION PRIOR TO REGISTRATION

1 of 22

NOAA FORM 76-36A (3-72) NATIO	U. S. DEPARTMENT OF COMMERCE NAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TE 12249
		ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE	REPORT - DATA RECORD	☐ RESURVEY	MAP CLASS Field Edited
		REVISED	јов <b>Рн.<u>6211</u></b>
PHOTOGRAMMETRIC OFFICE		LAST PRECEED	ING MAP EDITION
Coastal Mapping	Division	TYPE OF SURVEY	JOB PH
Norfolk, VA		ORIGINAL	MAP CLASS -
		RESURVEY	SURVEY DATES:
J. Bull, Directo	or 	REVISED	19TO 19
I. INSTRUCTIONS DATED		I	
0.1.1.000	1. OFFICE	<del>                                     </del>	FIELD
Original Office Amendment No. 1	June 15, 1964 Nov. 22, 1965	Field - Feb. 5,	1963
" No. 2	Feb. 16, 1966	Field Supplement	tal Fëb. 23, 1967
" No. 3	July 1, 1966		
" No. 4	April 5, 1967		
	, ,		
		1	
II. DATUMS			
1 NACHTONITAL	<u></u>	OTHER (Specify)	
1. HORIZONTAL:	1927 NORTH AMERICAN		
	MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:	MEAN LOW-WATER  MEAN LOWER LOW-WATER		
	MEAN SEA LEVEL		
3. MAP PROJECTION		4.	GRID(S)
Polyconic Pro	jection	STATE	ZONE
_		Washington	North Zone
5. SCALE 1:10,000		STATE	ZONE
III. HISTORY OF OFFICE OF	PERATIONS		
	OPERATIONS	NAME	DATE
1. AEROTRIANGULATION	BY	J. Gerlach	Jan 1965
метно¤Stereoplant		J. Perrow	Aug 1966
2. CONTROL AND BRIDGE R METHOD: HAND P		A. Santillan B. Wilson	Aug 1966 Aug 1966
3. STEREOSCOPIC INSTRUM		B. Wilson	Aug 1966
COMPILATION	IENT PLANIMETRY BY CHECKED BY	A. SANTILLAN	Aug 1966
instrument: Keish	Plotter CONTOURS BY	NA SACTOR OF THE	
scale: 1:10,000	CHECKED BY	B 1117	
4. MANUSCRIPT DELINEAT		B. Wilson	Aug 1966
	CHECKED BY	B. BARGE	AUG 1966
метнор: Worksheet	ts (Kelsh Plotter)	103	
1.10 000	HYDRO SUPPORT DATA BY	B. Wilson	Aug 1966
scale: 1:10,000	CHECKED BY	A. SANTICLAN	Aus 1966
5. OFFICE INSPECTION PR	OR TO FIELD EDIT BY	B. Barnes	Aug. 1966
6. APPLICATION OF FIELD	EDIT DATA	H. Lucas	July 1969
7. COMPILATION SECTION I	CHECKED BY	J. Battley J. Battley	July 1969 July 1969
8. FINAL REVIEW	BY	P. Dempsey	Oct. 1981
9. DATA FORWARDED TO P			
10. DATA EXAMINED IN PHO	TOGRAMMETRIC BRANCH BY	H D Wolfe	
11. MAP REGISTERED - COAS		Chief, Photo la v	MAR 1 0 1983
NOAA FORM 76-36 A	SUPERSEDES FORM C&G\$ 181 SERIES	Imagery U.s. G.P.	.0. 1972-769382/582 REG.#6

							. OCEAN SUI	
		СОМ	PILATION SOI	URCES		T-	12249	
. COMPILATION PH	DTOGRAPHY			<del></del>				
CAMERA(S)				HOTOGRAPHY		TIME REFE	RENCE	
L" & "W" Ca		Focal length	th LEGEND			ZONE		
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62 W 5062		June 6, 1962	10;38	1:31,000	ı N	1/A		
65 L 5731-573	·/I	Aug 15, 1965	11:05	1:25,000	1			
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65 L 5694-569	17	Aug 15, 1965	10:48	1:30,000	)   \	.9 feet at	ove MLL	
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listed i	n Item 1			interpreta	ntion of	the photo	ography	
listed i	n Item l	above.	W-WATER LINE:		ition of	the photo	ography	
listed i	n Item l	above.	W-WATER LINE:		ntion of	the photo	ography	
listed i	n Item l	above.	W-WATER LINE:		ition of	the photo	ography	
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listed i 3. source of MEXM There is	n Item 1	above.  WHEN LOWER LOW  line on this	<b>M-WATER LINE:</b> manuscript			•		
listed in the second se	n Item 1	above.  WHAMEAN LOWER LOW  line on this	M-WATER LINE: manus cript	That ere sources	or photogram	mmetric survey is	nformation.)	
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UAA FORM 76-36C 3-72)	NATIONAL OCEANIC		ENT OF COMME C ADMINISTRAT AL OCEAN SUR
HISTORY OF FIELD	OPERATIONS.	. T-	12249
I. X FIELD INSPECTION OPERATION FIELD	EDIT OPERATION.		
OPERATION	NAM	E	DATE
. CHIEF OF FIELD PARTY	R. B. Melby		June 196:
RECOVERED BY	II		11
HORIZONTAL CONTROL ESTABLISHED BY	<u>"</u>	<del></del>	" "
PRE-MARKED OR IDENTIFIED BY  RECOVERED BY	N/A		<u> </u>
. VERTICAL CONTROL ESTABLISHED BY	N/A		1
PRE-MARKED OR IDENTIFIED BY	N/A		<del> </del>
RECOVERED (Triangulation Stationa) BY	N/A		
. LANDMARKS AND LOCATED (Field Methods) BY	N/A		
AIDS TO NAVIGATION IDENTIFIED BY	N/A		
TYPE OF INVESTIGATION			
GEOGRAPHIC NAMES COMPLETE BY INVESTIGATION SECURIC NAMES ONLY			
30 ECIFIC NAMES ONE			
(X) NO INVESTIGATION	N/A	·	<del> </del>
PHOTO INSPECTION CLARIFICATION OF DETAILS BY BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY	N/A		
SOURCE DATA			<u></u>
HORIZONTAL CONTROL IDENTIFIED	2. VERTICAL CONTRO	OL IDENTIFIED	
Four stations			
PHOTO NUMBER STATION NAME	PHOTO NUMBER	STATION DES	HONATION
62 W 5420   Sisters Rôck Light, 1963			
60 W 2038   Shine, 1927			
60 W 2038   Rock Island 1878			
62 W 5063   Hood Canal Light 4, 1961			
PHOTO NUMBERS (Clarification of details)			
LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED		<del> </del>	
PHOTO NUMBER OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
GEOGRAPHIC NAMES: REPORT NONE	6. BOUNDARY AND LI	IMITS: REPOI	RTNONE
SUPPLEMENTAL MAPS AND PLANS			
NONE			
OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submit-	ted to the Geodesy Divisi	ion)	
Control station identification cards for th			e.
Contact prints 60 W 2038, 62 W 5063 and 62 W			
stations.	JAZU SHUWING I	ocacion or 1	13664

NOAA FORM 76+36C (3-72)

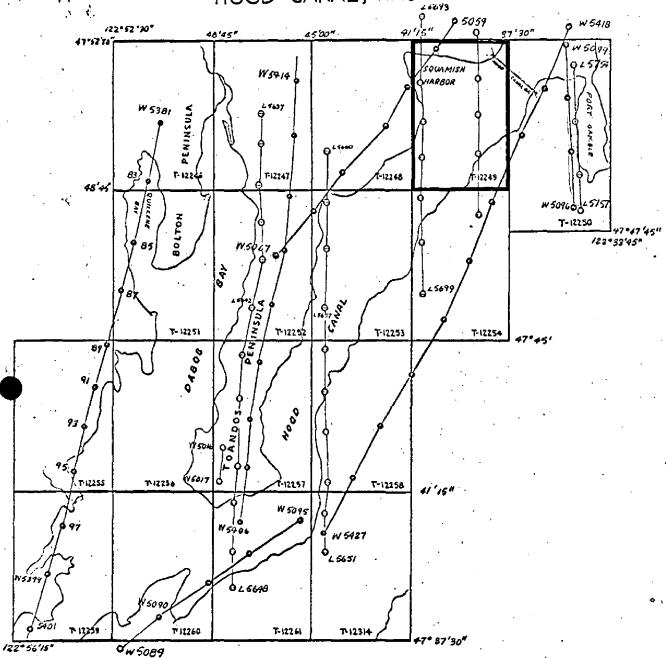
NOAA FORM 76-36( (3-72)	•	NATIONAL OCEA	NIC AND ATMOSPHERIO	ENT OF COMMERCE C administration al ocean surve
	HISTORY OF FIELD	OPERATIONS.	T	-12249
I. 🔲 FIELD INSP	ECTION OPERATION X FIEL	DEDIT OPERATION	•	
	OPERATION		DATE	
, CHIEF OF FIEL	D PARTY	R. B. Melby	April 1969	
	RECOVERED BY	Ü.		u
2. HORIZONTAL C	CONTROL ESTABLISHED BY	N/A		
	PRE-MARKED OR IDENTIFIED BY	R.B. Meiby		11
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. LANDMARKS AT	RECOVERED (Triangulation Stations) BY	N.D. PICTOY		11
AIDS TO NAVIG		u	<del></del>	ıı.
	TYPE OF INVESTIGATION			
5. GEOGRAPHIC N	av.			1
INVESTIGATION	N SPECIFIC NAMES ONLY	R.B. Melby		April 1969
	NO INVESTIGATION	" "		7 TPT 1303
PHOTO INSPEC	<del></del>	<u> </u>		- "
. BOUNDARIES A  I. SOURCE DATA		N/A	<del></del>	<u> </u>
	CONTROL IDENTIFIED	2. VERTICAL CON	TROL IDENTIFIED	
One sta	tion			
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DES	SIGNATION
į	Hood Canal Light 4, 1961 Rebuilt and changed to Hood Canal Light 4, 1967			
. PHOTO NUMBE	RS (Clarification of details)	<u> </u>		
65 L 5	694, 65 L 5695, 65 L 5696, 65 L 5	731 and 65 L	5734	
	ND AIDS TO NAVIGATION IDENTIFIED		·	<del></del>
	ds to Navigation			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
	Sisters Rock Light 1963			
65 L 5734	Hood Canal Bridge West Channel Fog Signal			
5. GEOGRAPHIC N	NAMES: [V] REPORT NONE	6. BOUNDARY AN	D LIMITS: REPO	RT NONE
	AL MAPS AND PLANS	For any and the		
None	<b>E</b>			
. OTHER FIELD	RECORDS (Sketch books, etc. DO NOT list data submit	ted to the Geodesy D	ivision)	<u></u>
Non	E			
OAA FORM 78+360			<del></del>	<del></del> <del></del> -

(3 - 72)

NOAA FORM {3-72}	76-36D		N	ATIONAL OCE	U EANIC AND	. S. DEPARTM ATMOSPHER	ENT OF COMMERCE
		RECO	RD OF SURVE	Y USE			T-12249
I. MANUSCRI	IPT COPIES						
	CO	MPILATION STAGE	s			DATE MANUSC	RIPT FORWARDED
DA	TA COMPILED	DATE	RE	MARKS	<u>M</u>	ARINE CHART	S HYDRO SUPPORT
Shoreli Support	ne, Photo-hydro Points	Aug 1966					Aug 1966
Field e	dit applied	July 1969	Class I	map			
	<u></u>	,					
II. LANDMA	RKS AND AIDS TO NAVIGA	TION					
1. REPOR	RTS TO MARINE CHART DI	VISION, NAUTICAL	DATA BRANCH				
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED			REMAR	K S	
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EDITION	DATE OF PHOTOGRAPH	DATEOFF	ELD EDIT	П	п	MAP CLASS	
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## SHORELINE MAPPING SCALE 1:10,000

HOOD CANAL, WASH.



## **PHOTOGRAPHY**

• 1:30,000 · Date Jun 62

1:25,000 " Aug 65

1:15,000 Jun 62

## T-12249

## SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

This 1:10,000 scale shoreline manuscript is one of 17 maps that comprise Project Ph-6211, which covers an area in the Northern part of Hood Canal from Port Gamble Southward to Hood Point and includes all of Dabob Bay. All maps in this project were field edited and reviewed. The field edit was accomplished by the hydrographic field party for project OPR-412.

The initial purpose of this map was to provide support for our nautical and aeronautical charting program and provide photo-hydro support data for hydrography scheduled in the area.

A field investigation was performed prior to compilation in April to June 1963. This investigation was to establish control, in order to meet aerotriangulation requirements, and to located all landmarks and aids previously un determined. All fixed aids to navigation not previously located by triangulation were located by triangulation or traverse at this time.

Photo coverage for compilation and aerotriangulation was flown in June 1962 with the "W" wild Aviogon camera at a scale of 1;30,000 with panchromatic film and in August 1965 with the "L" Wild camera at a scale of 1:30,000 (ratio to 1:10,000) with panchromatic film. The 1:10,000 scale ratio prints were used for field notes.

Analytical aerotriangulation was adequately provided by the Rockville office.

Compilation was performed at both the Rockville office and the Atlantic Marine Center. Five sheets (T-12248, T-12249, T-12250, T-12253 and T-12254) were compiled in the AMC office in July, August and September 1966. The other twelve sheets were compiled in the Rockville office in April, May and June 1967. The field edit was applied in the Rockville office only.

Final review for this map was performed in the Rockville office in 1981.

## FIELD INSPECTION

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and indentification of the horizontal control necessary for the aerotriangulation of the project.

See attached report on panelling of control.

# Horizontal Control and Identification Report Project Ph-6211

## Hood Canal, Washington

## April-June 1963

The following comments and remarks are pertinent to the conditions and methods utilized to perform the required photo-control in Project Ph-6211. (Reference control diagram Ph-6211, Hood Canl, Wash.)

## Sheet T-12246

Station T.T. 1 RB (USGS), 1955 was identified by the substitute station method, incorporating a dog-leg traverse to one of the substitute stations.

Station LELAND, 1955 was not identified. See station LARSON, 1955 north of sheet T-12247.

#### Sheet T-12247

Station LARSON, 1955 was identified in lieu of station LELAND, 1955. Station SANDY SHORE, 1955 was identified by a traverse to the substitute stations. A sun azimuth was observed at both ends of the traverse to secure adequate azimuth control of the traverse of the traverse line. Station GRASS 2, 1955 was identified by the substitute station menthd.

## Sheet T-12248 7 /2243

Station HOOD CANAL LIGHT 4, 1961 was identified direct and by the reverse, substitute station method.

#### Sheet T-12249

Station SET 2, 1934 was identified by a single substitute station,

determined by a dog-leg traverse. Station HOOD CANAL LIGHT NO.1, 1945 was identified direct. The light is near SET 2, 1934 and can serve as a second identified point. Station WHITE, 1934 was identified by the substitute station methods, using a dog-leg traverse to determine one of the substitute stations.

During the location of station SISTERS ROCK LIGHT, 1963, observations unvolving station SHINE, 1927 failed to provide adequate azimuth checks.

## <u>Sheet T-12250</u>

North of thes sheet station HEAD, 1927 was identified by a single substitute station. Nearby station POINT HANNON LIGHT, 1945 was identified direct to afford another identified point. Station NORTH BASE, 1915 was identified by the substitute station method. Station PORT, 1927 was identified by the substitute station method.

## Sheet T-12251

Station COMPUTER BLDG (USN), 1961 was identified by the substitute station method.

## Sheet T-12252

Station HOOD CANAL LIGHT 10, 1963 was identified direct. A suitable substitute station could not be found, therefore station CURRANT 2 1934, about 1/3 mile to the southwest was identified with a single substitute station.

## Sheet T-12253

No stations were identified in this sheet.

## <u>Sheet 12254</u>

Station HOOD CANAL LIGHT NO. 1, 1945 was identified direct to augment identification of nearby station SET 2, 1934.

## Sneet T-12255

Station SYLOPASH POINT LIGHT, 1963, was identified by the reverse substitute station method.

## Sheet T-12256

Station PULALI 2, 1961 was identified direct. A suitable substitute could not be found.

### Sheet T-12257

Station CURRANT 2, 1934 was identified with a single substitute station. This can serve as the second identification point in this area as EOOD CANAL LIGHT 10 1963 was identified direct. Station HAZEL POINT LIGHT, 1963 was identified direct. Nearby station OAK HEAD LIGHT, 1963 in sheet T-12261 was also identified direct to serve as the other required identified point. In the course of the location of station HAZEL POINT LIGHT, 1963, station HAZEL POINT 3, 1945 was found to be in error by about 36 feet. The azimuth of the line CHUTE 3, 1945-HAZEL POINT 3 1945 was in error by 10 minutes. A new position of HAZEL POINT 3, 1945 was identified direct.

## Sheet T-12258

Station BANGOR, 1955 was identified by a single substitute station. Nearby station BANGOR LOOKOUT TOWER, 1955 was identified direct.

## Sheet T-12259

Station QUATSAP 2, 1934 was identified by the substitute station method utilizing a single closed triangle observation.

## Sheet T-12260

Station BOULDER, 1878 was identified by two substitute stations.

## Sheet T-12261

States in any

Station LONE ROCK, 1878 was identified by the substitute station method by a single closed triangle observation.

## Sheet T-12314

No station were identifed in the sheet.

None of the control identification was considered substandard.

## Landmarks and aids

All landmarks and aids previously undetermined were located at this time. All fixed aids to navigation not previously located by triangulation were located by triangulation or traverse methods at this time.

Respectfully submitted

Root. B. Mills Robert B. Melby

Surveying Technickan

## AEROTRIANGULATION REPORT Job PH-6211 Hood Canal, Washington

August 8, 1966

## 21. Area Covered

The bridging covers the northwest shore of Hood Canal, approximately 20 miles northwest of Seattle, Washington.

## 22. Method

One strip consisting of photos 62-W-5060 thru 5067 was bridged on the stereoplanigraph to provide control for compilation of shoreline.

## 23. Adequacy of Control

Control was adequate. All stations held within National Map Accuracy except ROCK ISLAND LT, 1878, which would not hold within 12 feet. No reason could be found for the discrepancy except the possibility of misidentification by the stereo operator.

## 24. Supplemental Data

Vertical control points were taken from quads and can be expected to have only the accuracy of the quad itself. All points were drilled on the PUG.

## 25. Photography

Photography was adequate as to coverage and overlap. Some areas of the photography showed poor definition due to sun reflections.

Submitted by

John D. Perrow, Jr.

## Aerotriangulation Report

Charge No. 21053

## Hood Canal, Warhington

## 21. Area Covered

The bridging covers the area of Hood Canal, approximately 20 miles northwest of Seattle, Washington.

## 22. Method

Six strips were bridged on the Zeiss C-8 stereoplantgraph to provide control for compilation of shoreline (see attached sketch). Strip 2 was not bridged because the area was duplicated by Strip 1. Strip 7 was adjusted on the IBM 650 and all other strips on the IBM 1620.

## 23. Adequacy of Control

Control positions were adequate for bridge adjustment. However, sub stations of Pulali 2, 1901 and Computer Building (USN) 1901 were impossible to locate with any accuracy due mainly to poor images. Sisters Rock Light, 1963 also had a very poor image on the photographs in strip 6.

No explanation could be found for the discrepancy of Tabook Point Light, 1963 and sub-station B of Hoods Point, 1878. Substation B of Hoods Point waswithin accuracy limits on Strip 3.

All other points held within accuracy requirements.

## 24. Supplemental Data

Common tie points were hit between adjoining bridges and were averaged. Vertical control points were taken directly from the quads and can be expected to have only the accuracy of the contours of the quad itself.

## 25. Photography

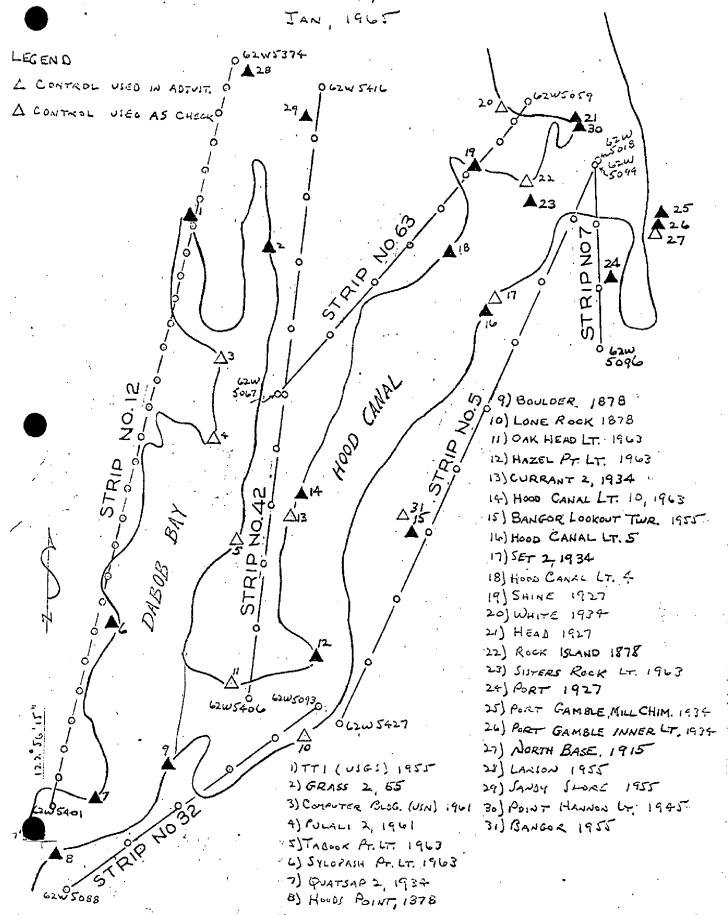
Photography was adequate as to coverage. The overlap was too great on Strip 1, necessitating the use of every other photograph in the bridge. Definition was poor on the strips to the west, partially because of sun reflections.

Submitted by:

John T. Gerlach

Approved by:
John D. Perrow, Jr.

## HOOD CANAL WASHINGTON



Linear

Miles

Square

Miles

# PROJECT PH-6211 SHORELINE MAPPING

WASHINGTON HOOD CANAL SCALE 1:10,000

> Sheet , Mo.

Linear

Miles 5

Sheet

Square

Miles

12246/ 12247/ -12248 *- -12249 *- -12250- 12251/ 12252/ 12253 *- -12254 *-	10 10 11 3 11 5 8 3	5 6 4 11 132 6 8 2	12255/ 12256/ 12257/ 12258/ 12259/ 12260/ 12261/ 12314/ TOTALS	11 2 7 11 4 3 6 11 129	9 7 10 6 11 10 6 4
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## Compilation Report T-12249

## 31. Delineation

The 1962 photography was used on the Kelsh Plotter to delineate the inshore planimetry and to establish points in common with the 1965 photography. These were then fixed to the Kelsh located points and additional shoreline and elevated points selected and cut in when needed. There was no field inspection, but the shoreline interpretation presented no special difficulty. The shoreline and offshore features were delineated from the 1965 photography and the inshore detail filled in where cultural changes occurred since the 1962 photography.

## 32. Control

report

See the aerotriangulation V for the horizontal control. The vertical control was taken from USGS quadrangle maps and used in leveling on the Kelsh plotter.

- 33. Supplemental Data None
- 34. Contours and Drainage

Contours N/A. Drainage was applied by office interpretation of photography.

- 35. Shoreline and Alongshore Detail
- All detail is from office interpretation of photography.
- 36. Offshore Details

Numerous rocks and piles were delineated in the offshore area. A mud and sand limit line was compiled along with a shallow line.

## 37. Landmarks and Aids

There are no landmarks on this map. There are three aids to navigation plotted on this map.

- 38. Control for Future Surveys None
- Junctions

Junctions was made with T-12250 to the east, T-12254 to the south and T-12248 to the west. There is no contemporary survey to the north.

40. thru 45. Inapplicable

## 46. Comparison with Existing Maps

Comparison was made with USGS quadrangle map Lofall, Washington, scale 1:24,000, dated 1953.

## 47. Comparison with Nautical Charts

Comparison was made with Chart 6421, scale 1:20,000, 2nd Edition, May 4, 1964.

Items to be applied to Nautical Charts immediately: None

Items to be carried forward: None

Submitted by,

B. Wilson

Approved and Forwarded:

J. Bull Director, Atlantic Marine Center Chart Topography
Hood Canal, Washington
April 1969
Map Manuscripts T-12248, 12249, 12250, 12253, 12254
Project PH-6211

This report covers the area of Hood Canal, from the vicinity of Hood Head, southwestward to the vicinity of Vinland and including Port Camble (bay).

The entire shoreline was inspected using a small boat. The field edit copies (discrepancy prints) of the map manuscripts were used as the index for the field corrections and the photographs containing the bulk of the corrections were cross-referenced to the field edit copies. However, minor corrections and deletions may only appear on the photographs and the cross-reference to the map manuscripts will be by photonumber only.

Adequacy of Compilation:

The extent and accuracy of the maps appear to be reasonably complete, considering the compilation was accomplished without the benefit of field inspection.

#### Methods:

The shoretine was inspected and the corrections have been indicated on the field edit photography in red ink. Annotations on the field edit sheets are in purple ink. Deletions of features on both the field edit sheets and the photography are in green ink.

Mean high water references were made to identifiable alongshore objects and to the existing triangulation stations. The characteristics of the shore are generally of a sand-gravel composition with scattered stones and boulders. The foreshore and adjacent offshore underwater areas are quite shallow. A noticeable accretion and erosion takes place along the unstable beach areas.

Aluffs are evident along the major portion of the shoreline. Wave action and normal erosion cause the bluffs to be constantly sloughing. The bluffs are unstable, as solid bed rock is not in evidence along the shoreline. These bluffs with overhanging trees obscure the mean high water line on the west and north beaches. Since the trees grow to the edge of the precipitous bluffs, about one-half of the diameter of the trees foliage of the outer-most limit of the woodland cover will extend out and over the shoreline.

The only community of any size is the town of Port Gamble. Along the shores of Hood Canal and Port Gamble (bay) are numerous summer cottages and retirement residences.

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Piers and wharves are few. There is a lumber pier at the sawmitted Pert Gamble (town). The remaining piers are small and usually accessible by boat only at the higher stages of the tides.

Offsnore features are in the form of rocks, piling delphins and a floating highway bridge. Due to the extensive, shallow foreshore, most of the small craft, pleasure boats, etc. are moored offshore in the deeper water during the summer months and then removed to dry storage during the winter season. Numerous small mooring bueys are evident on the photography and were consequently compiled. It is recommended, these bueys be deleted as they are somewhat temporary in nature. They consist of a block of concrete or similiar object to serve as an anchor, a length of chain or rope that is secured to a small parrel, wooden block or a cluster of white, bleach bottles. These are usually removed or lost during the winter months.

All fixed aids to navigation were investigated and positions determined for any that had not been previously located. They have been listed on Form 567.

Rocks and shoals were investigated. The elevations of these features in relationship to the stage of tide at the time of the investigation were recorded on the field edit photography. Sunken rocks in question were visited at or below the zero tide stage, to confirm their existence.

Pertinent information pertaining to each individual discrepancy sheet will be listed under that specific sheet.

Geographic Names are the subject of a separate report. Name changes or corrections will be discussed in this separate report.

#### Sheet T-12248

A new road is under construction in the vicinity of Thorndyke Bay (Photo 65L5659). A portion of the road has been completed and the remainder of the road is under various stages of construction. The road will eventually connect with existing roads in the vicinity of Thorndyke Bay and South Point. Plans of the road have been obtained from the Jefferson County Engineers Office.

A new riprap bulkhead (seawall) has been constructed along a section of the shore at South Point. The configuration of this feature has been planetabled on photograph 65L5695.

#### Sheet T-12249

Hood Canal Light 4 had been rebuilt in 1967 and the new position of the light had been determined by triangulation the same year.

The channel along the west side of a sand spit that extends northward from South Point has been dredged and lengthened. See Photograph 65L5695 for the planetable survey of this feature.

A sunken rock in the vicinity of Sisters Rock Light was located by theodolite and stadia distance from the light.

#### Sheet T-12250

The fog signals on the Hood Canal Floating Bridge were located by photogrammetric methods.

Port Gamble Light, a fixed aid to navigation, was located by triangulation intersection methods. In Port Gamble (bay) and numerous pites and adaptions, for the storage and securing of log rafts. Shoreline features in question were investigated and noted on the field edit photography. Two landmarks, previously charted were field inspected and recommended to be retained for charting purposes, are found in the town of Port Gamble. They have been listed on form 567.

A surfaced small boat launching ramp is found in the vicinity of Salisbury Point.

#### Sheet T-12253

For information pertaining to the highway under construction in the vicinity of Thorndyke Bay, see the remarks under Sheet T-12248.

Bangor Explosive Anchorage Lighted Buoy A (a floating aid) was photo-identified for clarification purposes only.

#### Sheet T-12254

The interior roads in question were classified and the shoreline inspected. Hood Canal Light 5 is found on this sheet.

Respectfully Submitted,

Robert B. Melby V Chief, Photo Unit, PMC Review Report T-12249 Shoreline October 1981

## 61. General

In the application of the field edit the channel along the west side of a sand spit that extends northward from South Point has been dredged and lengthened. This area can be found at latitude 47°50'15" and longitude 122°41'10". A planetable survey was done on photograph 65 L 5695 to show the new limits of this channel.

The dotted line appearing outside of the MHW line of this manuscript is the limits of ofreshore area visible on the photography. There is no MLLW line on this map.

- 62. <u>Comparison with Registered Topographic Surveys</u> N/A
- 63. Comparisons with Maps of Other Agencies N/A
- 64. Comparison with Contemporary Hydrographic Surveys

Comparison was made with hydrographic survey H-8916, scale 1:10,000, dated April 1969. The hydrographic survey has a MLLW line that is coincidental in some areas with the foreshore dotted line on this map. The surveys are in agreement.

## 65. <u>Compariosn with Nautical Charts</u>

Comparison was made with chart 6421, scale 1:20,000, 2nd Edition, dated May 4, 1964. The shoreline north of South Point differs with the shoreline on Chart 6421 as explained under Item 61, otherwise the map and chart are in agreement.

## 66. Adequacy of Results and Future Surveys

This map complies with project instructions and meets the requirements for Bureau Standards and National Standards of Map Accuracy.

1-1

Submitted by,

D. Dempsey

Approved:

Chief, Photogrammetric Branch

Chief, Photogrammetry Division

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6211 T-12249 (Hood Canal, Wash.)

Bridgehaven-gf

Case Shoal

Four Corners

Hood Canal

Lofall

Shine Shine-Gri-La-Juff Sisters

South Point

Squamish Harbor

Standard School

Termination Point

Approved by:

A. J. Wraight

Chicf Geographer

Prepared by:

Frank W. Pickett Cartographic Technician

# Project PH-6211 Material on File Hood Canal, Washington

## Federal Records Center

Control Station Identification Cards
Field Edit Photographs
Computer Readouts
Field Edit Photographs
Field Edit Ozalids (Discrepancy Prints) for each map

Project Completion Report

Bureau Archives

Registered Copy of each map Descriptive Report of each map

Reproduction Division

8x Reduction Negative of each map

Office of Staff Geographer

Geographer Names Standard

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NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

#### **NAUTICAL CHART DIVISION**

## RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

## **INSTRUCTIONS**

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
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FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

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