

# 12056

Diag. Cht. No. 6450-2.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph-6101 Office No. T-12056

### LOCALITY

State Washington

General locality Admiralty Inlet

Locality Port Townsend

1960-62

CHIEF OF PARTY

F. Natella

LIBRARY & ARCHIVES

DATE May 1964

USCOMM-OC 5087

# 12056

DESCRIPTIVE REPORT - DATA RECORD  
T - 12056

PROJECT NO. (II): <b>PH-6101</b>			
FIELD OFFICE (II): <b>PORT TOWNSEND, WASHINGTON</b>		CHIEF OF PARTY <b>FRED NATELLA</b> UNIT CHIEF <b>R. B. MELBY</b>	
PHOTOGRAMMETRIC OFFICE (III): <b>PORTLAND, OREGON</b>		OFFICER-IN-CHARGE <b>FRED NATELLA</b>	
INSTRUCTIONS DATED (II) (III): <b>14 MARCH 1961</b> II, III <b>AMENDMENT 1,</b> <b>8 MAY 1961</b> II, III <b>AMENDMENT 1,</b> <b>17 MAY 1961</b> II, III <b>AMENDMENT 4,</b> <b>14 DECEMBER 1962</b> III			
METHOD OF COMPILATION (III): <b>KELSH INSTRUMENT</b>			
MANUSCRIPT SCALE (III): <b>1:10,000</b>		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): <b>1:6000</b> PANTOGRAPH SCALE: <b>1:10,000</b>	
DATE RECEIVED IN WASHINGTON OFFICE (IV):		DATE REPORTED TO NAUTICAL CHART BRANCH (IV):	
APPLIED TO CHART NO.		DATE:	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III): <b>N.A. 1927</b>		VERTICAL DATUM (III): MEAN SEA LEVEL EXCEPT AS FOLLOWS: <b>X</b> <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): <b>HIGH, 1941</b>			
LAT.: <b>48° 06' 48.338"</b>	LONG.: <b>122° 45' 34.960"</b>	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED	
PLANE COORDINATES (IV): <b>412,033.91</b> <b>x = 1,529,454.74</b>		STATE <b>WASHINGTON,</b>	ZONE <b>NORTH</b>
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):  R. B. MELBY		DATE:  Aug.-Sept. 1962
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  JULY 1962 BY FIELD INSPECTION. COMPILATION BY KELSH INSTRUMENT.		
PROJECTION AND GRIDS RULED BY (IV):  A. R.		DATE 12-18-62
PROJECTION AND GRIDS CHECKED BY (IV):  F. E. B.		DATE
CONTROL PLOTTED BY (III):  C. H. BISHOP J. L. HARRIS		DATE 1-3-63 1-21-63
CONTROL CHECKED BY (III):  R. H. MEYER L. L. GRAVES		DATE 1-3-63 1-21-63
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):  HENRY P. EICHERT		DATE Dec. 1962
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY  R. H. MEYER	DATE 1-29-63
	CONTOURS  NONE	DATE
MANUSCRIPT DELINEATED BY (III):  SMOOTH DRAFT: C. C. HARRIS		DATE 3-13-63
SCRIBING BY (III):  STICK-UP: C. C. HARRIS		DATE 4-15-63
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): ROUGH DRAFT: J. L. HARRIS ADVANCE: J. L. HARRIS		DATE 3-4-63 5-21-63
REMARKS:		

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C&amp;GS SINGLE LENS "W"

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 1979 AND 1980	9-21-60	11:22	1:30.000	2.5 FEET ABOVE M.L.L.W.
RATIO PRINTS OF ABOVE AT 1:10,000				COMPUTED FROM PRE- DICTED TIDE TABLES.

## TIDE (III)

		RATIO OF RANGES	MEAN RANGE	DIURNAL RANGE
REFERENCE STATION: PORT TOWNSEND, WASHINGTON			5.1	8.3
ORDINATE STATION:				
SUBORDINATE STATION:				
WASHINGTON OFFICE REVIEW BY (IV):		DATE:		
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III): 55	RECOVERED: 24	IDENTIFIED: 4		
NUMBER OF BM(S) SEARCHED FOR (II): 0	RECOVERED:	IDENTIFIED		
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 0				
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 2				

REMARKS:

## FIELD INSPECTION REPORT

MAP MANUSCRIPT "T-12056

PROJECT PH-6101

REFER TO THE FIELD INSPECTION REPORT FOR T-12050 THRU T-12056  
AND T-12059 THRU T-12063 INCLUDED WITH THE DESCRIPTIVE REPORT FOR  
T-12050. ALSO REFER TO THE \*SPECIAL REPORT, PROJECT PH-6101,  
"NOTES TO COMPILER" DATED 4 AUGUST 1961 BY ROBERT B. MELBY.

\* See Desc. Report T120<sup>5</sup>64

## PHOTOGRAMMETRIC PLOT REPORT

MAP MANUSCRIPT T-12056

PROJECT PH-6101

REFER TO THE PHOTOGRAMMETRIC PLOT REPORT NO. 2 BY HENRY P.  
EICHERT, DECEMBER 1962 AND INCLUDED WITH THE DESCRIPTIVE REPORT  
FOR T-12050.

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

MAP T. 12056

PROJECT NO. PM-6101

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $y$ -COORDINATE LONGITUDE OR $x$ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
				FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
HIGH, 1941	P-309	N.A. 1827	412,033.91 1,529,454.74	2033.91	(2966.09)		619.94	( 904.06)		
PORT TOWNSEND ASTRONOMIC AZIMUTH STATION 2, 1941	P-271	"	413,568.13 1,530,892.92	3568.13	(1431.87)		1357.80	( 166.20)		
PORT TOWNSEND ASTRONOMIC LONGITUDE, 1888	"	"	413,740.39 1,530,752.78	892.92	(4107.08)		1087.57	( 436.43)		
PORT TOWNSEND	P-311	"	412,859.72	3740.39	(1259.61)		272.16	(1251.84)		
BELL TOWER, 1926	P-307	"	412,625.95	752.78	(4247.22)		1140.47	( 383.93)		
PORT TOWNSEND COURTHOUSE STEEPLE 1908	P-304	"	411,648.92	2659.72	(2340.28)		229.45	(1294.55)		
PORT TOWNSEND ELKS BUILDING CUPOLA FLAGPOLE 1941	P-307	"	412,824.12	94.41	(4905.59)		810.68	( 713.32)		
PORT TOWNSEND, FIRST PRESBYTERIAN CHURCH FINIAL, 1941	P-306	"	412,824.12	1848.92	(3351.08)		28.78	(1495.22)		
PORT TOWNSEND	P-307	"	412,826.	2846.92	(2153.08)		502.59	(1021.41)		
FLAGPOLE, 1941	P-307	"	412,826.	2625.93	(2374.07)		867.74	( 656.26)		
PORT TOWNSEND NATIONAL PAPER PRO- DUCTS CO. SOUTH EAST STACK, 1937	P-303	"	404,883.36	395.95	(4604.05)		800.38	( 723.62)		
PORT TOWNSEND NEW NAVAL SECTION BASE BUILDING FLAGPOLE, 1941	P-307	"	413,345.44	2824.12	(2175.88)		120.69	(1403.31)		
PORT TOWNSEND NORTHEAST BASE 1856	P-303	"	410,622.59	4588.42	( 411.58)		860.79	( 663.21)		
PORT TOWNSEND POST OFFICE, PEAK OF ROOF, 1926	P-312	"	412,092.89	2826.	(2174. )		1398.55	( 125.45)		
			1,529,228.69	326.	(4674. )		861.36	( 662.64)		
				4883.36	( 116.64)		99.36	(1424.64)		
				683.55	(4316.45)		1488.45	( 35.55)		
				3345.44	(1654.56)		208.35	(1315.65)		
				1599.64	(3400.36)		1019.69	( 504.31)		
				622.59	(4377.41)		487.57	(1036.43)		
				1572.11	(3427.89)		189.77	(1334.23)		
				2092.89	(2907.11)		479.18	(1044.82)		
				4228.69	( 771.31)		637.91	( 886.09)		
							1288.90	( 235.10)		

1 FT. = 3048006 METER

COMPUTED BY: LLG

DATE 1-16-63

CHECKED BY: DNW

DATE

1-16-63

COMM-DC-57843

SCALE FACTOR

1 FT. = 3048006 METER  
COMPUTED BY: D.N.W.  
DATE: 1-16-63  
CHECKED BY: R.H.M.  
DATE: 1-17-63  
COMM. DC-57843

SCALE FACTOR

1 FT. = .3048006 METER	1-16-63	1-16-63
COMPUTED BY: L.L.G.	DATE	DATE
CHECKED BY: D.N.W.		
COMM. DC. 57843		

COMPILATION REPORT  
MAP MANUSCRIPT T-12056  
PROJECT PH-6101

ITEMS 31 AND 32:

REFER TO THE COMPILATION REPORT FOR T-12065.

33. SUPPLEMENTAL DATA:

THE MILL LAYOUT OF THE CROWN ZELLERBACH PAPER MILL DATED 3-7-50 AND REVISED AUGUST 1962, WAS USED TO AID IN THE DELINEATION OF ALONGSHORE FEATURES IN THE VICINITY.

34. CONTOURS AND DRAINAGE:

REFER TO THE COMPILATION REPORT FOR T-12063.

35. SHORELINE AND ALONGSHORE DETAILS:

THE MEAN HIGH-WATER LINE WAS SPOT LOCATED BY THE FIELD PARTY AND DELINEATED BY THE OPERATOR OF THE KELSH INSTRUMENT DURING COMPILATION. THE CHARACTER OF THE FORESHORE AREA WAS INDICATED ON THE FIELD PHOTOGRAPHS AND WAS DELINEATED BY SYMBOL OR LABEL. THE SHALLOW LINE SHOWN WAS DETERMINED BY INSPECTION OF THE PHOTOGRAPHY TAKEN AT A PREDICTED TIDE OF 2.5 FEET ABOVE M.L.L.W.

36. OFFSHORE DETAILS:

NONE.

37. LANDMARKS AND AIDS:

FIVE FIXED AIDS TO NAVIGATION ARE SHOWN ON THIS MANUSCRIPT. TWO WERE LOCATED BY TRIANGULATION AND THREE WERE LOCATED BY THE KELSH INSTRUMENT OPERATOR DURING COMPILATION.

SIX INTERSECTION TRIANGULATION STATIONS LOCATED IN THE AREA OF THIS MANUSCRIPT HAVE BEEN RECOMMENDED FOR CHARTING AS LANDMARKS.

FORMS 567 ARE SUBMITTED.

38. CONTROL FOR FUTURE SURVEYS:

TWO PHOTO-HYDRO STATIONS WERE IDENTIFIED BY THE FIELD PARTY AND LOCATED DURING KELSH INSTRUMENT COMPILATION. THEIR NUMBERS AND DESCRIPTIONS ARE LISTED IN PARAGRAPH 49.

39. JUNCTIONS:

SATISFACTORY JUNCTIONS WERE MADE WITH T-12051 TO THE NORTH; WITH T-12057 TO THE EAST; WITH T-12063 TO THE SOUTH AND WITH T-12055 TO THE WEST.

40. HORIZONTAL AND VERTICAL ACCURACY:

46. COMPARISON WITH EXISTING MAPS:

COMPARISON WAS MADE WITH THE U.S.G.S. 7½ MINUTE PORT TOWNSEND SOUTH, WASHINGTON QUADRANGLE, SCALE 1:24,000, EDITION 1953.

47. COMPARISON WITH NAUTICAL CHARTS:

COMPARISON WAS MADE WITH NAUTICAL CHART 6405, SCALE 1:20,000, 8TH EDITION, JULY 1, 1944, REVISED 2-12-62.


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

48. GEOGRAPHIC NAMES:

THE GEOGRAPHIC NAMES LISTED BELOW AND SHOWN ON THIS MANUSCRIPT WERE FURNISHED BY THE WASHINGTON OFFICE ON A FINAL NAME SHEET, A COPY OF THE U.S.G.S. PORT TOWNSEND SOUTH, WASHINGTON 7 $\frac{1}{2}$  MINUTE QUADRANGLE, SCALE 1:24,000, EDITION 1953.

ADMIRALTY INLET  
CHETZEMOLKA PARK  
GLEN COVE  
OLD FORT TOWNSEND STATE PARK  
PORT TOWNSEND (TOWN)  
PORT TOWNSEND (BAY)  
QUIMPER PENINSULA

*George McBaer*  
*20 August 1963*

49. NOTES FOR THE HYDROGRAPHER:

THE FOLLOWING PHOTO-HYDRO STATIONS SHOWN ON THIS MANUSCRIPT WERE IDENTIFIED BY THE FIELD UNIT AND LOCATED BY THE KELSCH OPERATOR DURING COMPILATION.

No.	DESCRIPTION	FIELD PHOTO No.
5601	S.E. CORNER OF BLDG. ON PIER	60 W 1979
5602	DOLPHIN	60 W 1980

## PHOTOGRAMMETRIC OFFICE REVIEW

T-10000-12056

1. PROJECTION AND GRIDS ✓	2. TITLE ✓	3. MANUSCRIPT NUMBERS ✓	4. MANUSCRIPT SIZE ✓
<b>CONTROL STATIONS</b>			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY ✓	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) None		7. PHOTO HYDRO STATIONS ✓
8. BENCH MARKS None	9. PLOTTING OF SEXTANT FIXES None	10. PHOTOGRAMMETRIC PLOT REPORT ✓	11. DETAIL POINTS
<b>ALONGSHORE AREAS (Nautical Chart Data)</b>			
12. SHORELINE ✓	13. LOW-WATER LINE None	14. ROCKS, SHOALS, ETC. None	15. BRIDGES None
16. AIDS TO NAVIGATION ✓	17. LANDMARKS ✓	18. OTHER ALONGSHORE PHYSICAL FEATURES ✓	19. OTHER ALONGSHORE CULTURAL FEATURES ✓
<b>PHYSICAL FEATURES</b>			
20. WATER FEATURES ✓	21. NATURAL GROUND COVER ✓		22. PLANETABLE CONTOURS Not Applicable
23. STEREOSCOPIC INSTRUMENT CONTOURS Not Applicable	24. CONTOURS IN GENERAL Not Applicable	25. SPOT ELEVATIONS None	26. OTHER PHYSICAL FEATURES ✓
<b>CULTURAL FEATURES</b>			
27. ROADS ✓	28. BUILDINGS ✓	29. RAILROADS ✓	30. OTHER CULTURAL FEATURES ✓
<b>BOUNDARIES</b>			
31. BOUNDARY LINES ✓		32. PUBLIC LAND LINES None	
<b>MISCELLANEOUS</b>			
33. GEOGRAPHIC NAMES ✓		34. JUNCTIONS ✓	35. LEGIBILITY OF THE MANUSCRIPT ✓
36. DISCREPANCY OVERLAY None	37. DESCRIPTIVE REPORT ✓	38. FIELD INSPECTION PHOTOGRAPHS ✓	39. FORMS ✓
40. REVIEWER James L. Harris		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			

COMPILATION RECORD

COMPLETION DATE

REMARKS

<i>Interior details added compilation complete</i>	<i>5/6/63</i>	

Review Report  
Shoreline Surveys  
T-12056 through T-12061  
October 1963

61. General Statement

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

62. Comparison with Registered Topographic Surveys

T-6884 a&b G	1:10,000 & 1:5,000	1941
T-6885 a&b	1:10,000 & 1:5,000	1941
T-1255	1:10,000	1871
T-4191	1:10,000	1926

There are cultural and shoreline differences due to time interval. These maps are to supersede the above surveys for common areas for nautical charting.

63. Comparison with Maps of Other Agencies

Sequin	1:24,000	1956
Gardiner	1:24,000	1953
Port Townsend (South)	1:24,000	1953
Nordland	1:24,000	1953

There are minor cultural and shoreline differences, due to the difference in time intervals.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

6403	1:40,000	Revised to July 1963
6405	1:20,000	Revised to Feb. 1962

Differences exist. However, there are no items to be applied immediately.

66. Adequacy of Results and Future Surveys

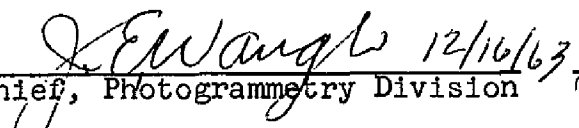
These surveys were prepared according to project instructions and are within the required accuracy for Nautical Charting.

Reviewed by:

  
L. C. Lande

Approved by:

  
Chief, Photogrammetric Branch

  
Chief, Photogrammetry Division 12/16/63

