# TP-00730 ORIGINAL

NOAA FORM 76-35

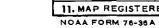
# **DESCRIPTIVE REPORT**

Type of SurveyShoreline
Job NoCM-7311 Map No. TP-00730
Classification No. Final Edition No1
Field Edited Map
LOCALITY
State Washington
General Locality Tacoma Harbor
Locality Ruston
1973 TO 1974
REGISTRY IN ARCHIVES
DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

RCS 18453-9-30-81-RL RCS 18445-5C 9-30-81-RL RCS 18448 9:30-81 RL

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	TYPE OF SURVEY	SURVEY TP. 00730
(3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	1 _	
<b>}</b>	\	MAPEDITION NO. $\{1\}$
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAPCLASS Final
	REVISED	лов <b>мы</b> <u>СМ-7311</u>
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
Coastal Mapping Division	TYPE OF SURVEY	JOB PH
Atlantic Marine Center, Norfolk, VA	ORIGINAL	MAP CLASS
OFFICER-IN-CHARGE	RESURVEY	SURVEY DATES:
Jeffrey G. Carlen, Cdr., NOAA	REVISED	19TO 19
I. INSTRUCTIONS DATED		
1. OFFICE	2.	FIELD
Aerotriangulation Aug 30, 197 Compilation Jan 22, 197	May 17, 1	973
11. DATUMS		
1. HORIZONTAL: X 1927 NORTH AMERICAN	OTHER (Specify)	
	OTHER (Specify)	
	OTHER (Specify)	
3. MAP PROJECTION	4.	GRID(S)
Polyconic	STATE Washington	zone South
5. SCALE 1:5,000	STATE	ZONE
III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY	I. O. Raborn	1/74
METHOD: Analytic Landmarks and aids by	D D-1	2 /8/
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: CALCOMP CHECKED BY	R. Robertson	1/74
	R. R. White	2/74
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY	L. O. Neteren	
INSTRUMENT: Wild B-8 CONTOURS BY	NA NA	
scale: 1:7,500 CHECKED BY	NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	G. R. Vanderi	
CHECKED BY	R. R. White	3/74
METHOD: Smooth Draft CHECKED BY	NA NA	· · · · · · · · · · · · · · · · · · ·
HYDRO SUBBORY DATA BY	G. R. Vanderh	naven 2/74
SCALE: 1:5,000 CHECKED BY	R. R. White	3/74
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	R. R. White	3/74
6. APPLICATION OF FIELD EDIT DATA	J. R. Minton	4/75
CHECKED BY	A. L. Shands	5/75
7. COMPILATION SECTION REVIEW BY	A. C. Rauck,	
8. FINAL REVIEW BY	A. L. Shands	Jan. 1978_
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	A. I. Shands	DS Mar 1978 March 1978
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH  11. MAP REGISTERED - COASTAL SURVEY SECTION  BY	J. B. Ph///	05 1110rch 1970



NOAA FORM 76-36B (3-72)				mp 00		ATIONAL OCE		ATMOSP	HERIC AD	OF COMMERCE MINISTRATION OCEAN SURVEY
			CO	TP-00 MPILATIO		RCES		""	TIONAL	CEAN SORVE
1. COMPILATION PH	OTOGRAPHY	,								
CAMERA(S) Wild R	C-8 "E"			TYPE	S OF PH LEGI	OTOGRAPHY END		TIME	REFERE	INCE
TIDE STAGE REFERE	NCE			[[ (c) co	LOR		ZONE		·	
REFERENCE STA		DS		1	NCHROM	ATIC	Pa	acific		X STANDARD
TIDE CONTROLLI				(I) INF	RARED		1	20th		DAYLIGHT
NUMBER AND	TYPE		DATE	TIM	=	SCALE			GE OF T	IDE
73E(C) 9124 1 73E(C) 9099 1			5/22/73 5/22/73	10: 09:		1:15,000 1:15,000	7.		above above	
REMARKS	\ <u></u>	1	·	<u> </u>						
2. SOURCE OF MEAI	M HIGH WATE	D I INE	· = <u>-</u>	<u>-</u>			· <del></del> -			
The mean high	water I	line w	as delin	eated fr	rom th	ie above 1	isted p	hotog	raphy.	
3. SOURCE OF MEAN	LOW-WATE	R OR ME	AN LOWER L	OW-WATER	LINE:		<del></del>		·	
None compiled	l.								•	
		·								
•										
4. CONTEMPORARY	HYDROGRAF	HIC SU	RVEYS (List o	only those s	arveys th	at are sources f	or photogra	mmetric s	urvey info	rmation.)
SURVEY NUMBER	DATE(S)		SURVEY CO	PY USED	SURVE	Y NUMBER	DATE(S)	$\overline{}$	SURVEY	COPY USED
E EINAL HINOTION	<u> </u>	<del></del> -	<u></u>		<u></u>		<u></u>			<del></del> -
5. FINAL JUNCTION		EAST			SOUTH	<u>-</u> _		WEST		
No Surve	у		TP-0073	1	<u></u>	No Survey		<u></u>	TP-00'	728
REMARKS	•									

NOAA FORM 76-36C (3-72)	TP-00 History of Fiel	0730	ANIC AND ATMOSPHERI	ENT OF COMMERCI C ADMINISTRATION AL OCEAN SURVE
I. T FIELD INSPECTI		TELD EDIT OPERATION	<u> </u>	
	OPERATION		NAME	DATE
1. CHIEF OF FIELD PA	* PTV			
II Giller G. T.EE			Melby Melby	6/73
2. HORIZONTAL CONTI	RECOVERED :		Melby	0/12
2. HORIZONTAL CONT.	ROL ESTABLISHED I PRE-MARKED OR IDENTIFIED I			<del> </del>
	PRE-MARKED OR IDENTIFIED I	1		<del> </del>
3. VERTICAL CONTROL		37.4		<del> </del>
3. VERTIONE SOISTIL	PRE-MARKED OR IDENTIFIED	12.		<del> </del>
		None		+
4. LANDMARKS AND	RECOVERED (Triangulation Stations)	Mana		+
AIDS TO NAVIGATIO	LOCATED (Field Methods)   ON   DENTIFIED	37		+
,	TYPE OF INVESTIGATION	BY 110110		+
5. GEOGRAPHIC NAMES	S COMPLETE			]
INVESTIGATION		BY		
	X NO INVESTIGATION			
6. PHOTO INSPECTION		BY None		+
7. BOUNDARIES AND L	<del></del>			<del></del>
II. SOURCE DATA				
1. HORIZONTAL CONT	ROL IDENTIFIED	2. VERTICAL CO	NTROL IDENTIFIED	
None		N.A.		
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DES	SIGNATION
3. PHOTO NUMBERS (C	latification of details)		<u> </u>	
	IDS TO NAVIGATION IDENTIFIED	<del></del>		
None		,		_
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
	,			
	<u> </u>		L	
5. GEOGRAPHIC NAMES 7. SUPPLEMENTAL MA		6. BOUNDARY AN	ND LIMITS: REPO	RT X NONE
None				
8. OTHER FIELD RECC	ORDS (Sketch books, etc. DO NOT list date sui	bmitted to the Geodesy D	Division)	
None				

NOAA FORM 76-36( (3-72)	c	TP-0073 HISTORY OF FIELD		NIC AND ATMOSPHERIC	NT OF COMMERCE ADMINISTRATION AL OCEAN SURVEY
I. TIELD INSP	ECTION OPER	ATION X FIEL	D EDIT OPERATION		·
	OPE	RATION		NAME	DATE
1. CHIEF OF FIEL	D PARTY		M. Fle		3/74 - 4/74
		RECOVERED BY	None	emritig	3/14-4/14
2. HORIZONTAL C	CONTROL	ESTABLISHED BY	None		
		PRE-MARKED OR IDENTIFIED BY	None		
		RECOVERED BY	NA		
3. VERTICAL CON	NTROL	ESTABLISHED BY	NA NA		
		PRE-MARKED OR IDENTIFIED BY	NA.		
4. LANDMARKS A		COVERED (Triangulation Stations) BY	None	·	<del> </del>
4. LANDMARKS A		LOCATED (Field Methods) BY	None		<del> </del>
		TYPE OF INVESTIGATION	None		<del> </del>
5. GEOGRAPHIC N	NAMES	COMPLETE			
INVESTIGATION		SPECIFIC NAMES ONLY	·		
		NO INVESTIGATION			
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	None		
7. BOUNDARIES A	ND LIMITS	SURVEYED OR IDENTIFIED BY	NA NA		
II. SOURCE DATA		TICLES	Ta venziči si	TDo. (Bell)	
None	ON I ROL IDEN		NA	NTROL IDENTIFIED	
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION DES	IGN A TION
			,		
3. PHOTO NUMBE	RS (Clarification	n of details)	<u> </u>		
None					
None	ND AIDS TO NA	VIGATION IDENTIFIED			
PHOTO NUMBER		OBJECT		<u></u>	
FRO TO NUMBER	<u></u>	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
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			1		•
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				,	
5. GEOGRAPHIC N	IAMES. T	Decour (*)	4 801115454	D I MITS:	T (T)
7. SUPPLEMENTA		REPORT NONE	6. BOUNDARY AN	D LIMITS: REPOR	RT X NONE
	• AND F	·· <b>*</b>			
None					•
8. OTHER FIELD	RECORDS (Ske	ch books, etc. DO NOT list data submit	ted to the Geodesy D	ivision)	
l Field E	dit Ozali	d and Field Edit Report			
	<del> </del>				·

j

NOAA	FORM	76-36C
(3-72)		

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

# TP-00730

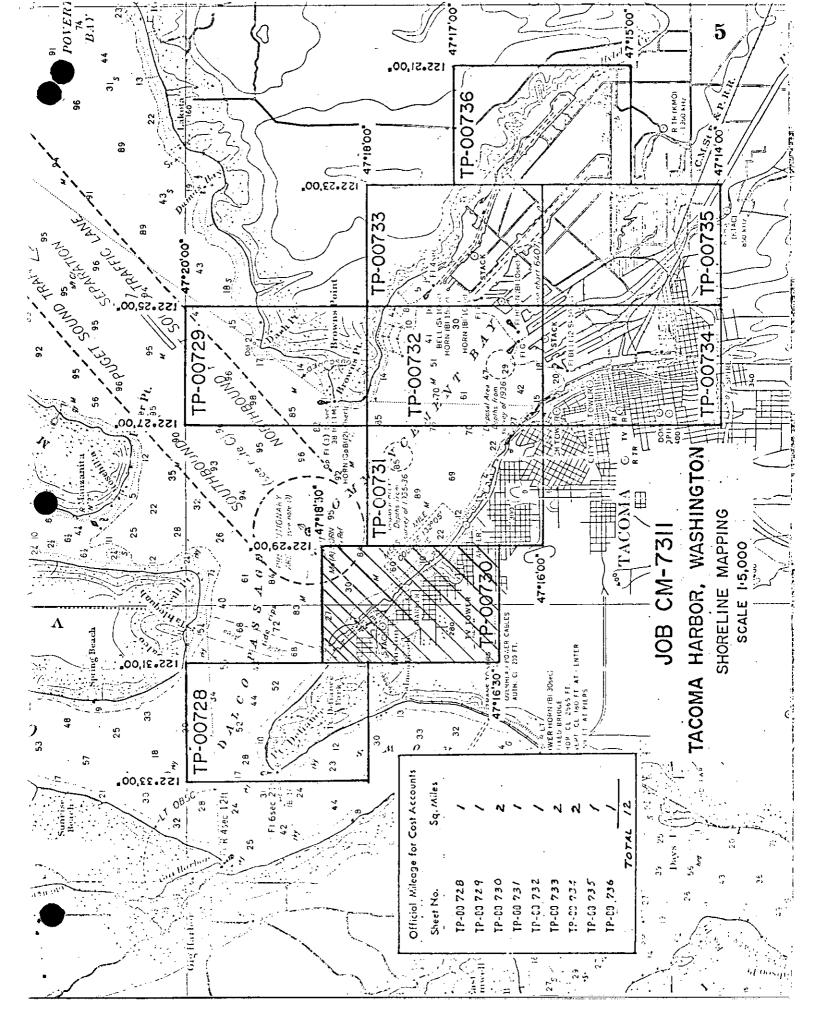
HISTORY	JF FIELD UPERATIONS
I. FIELD INSPECTION OPERATION	T FIELD EDIT OPERATION
OPERATION	NAME DATE
1. CHIEF OF FIELD PARTY	M. Fleming 12/74 - 1,
RE	VERED BY L. Riggers - D. Eilers 12/7
2. HORIZONTAL CONTROL ESTA	LISHED BY None
PRE-MARKED OR ID	
RE	VERED BY NA
3. VERTICAL CONTROL ESTA	LISHED BY NA
PRE-MARKED OR ID	
RECOVERED (Triangulation	
4. LANDMARKS AND LOCATED (Field AIDS TO NAVIGATION	
<u></u>	TIFIED BY D. Eilers 12/72
TYPE OF INVEST	ATION
5. GEOGRAPHIC NAMES COMPLETE INVESTIGATION	BY .
,	ļ
X NO INVESTIG	
6. PHOTO INSPECTION CLARIFICATION OF	
7. BOUNDARIES AND LIMITS SURVEYED OR ID	TIFIED BY NA
1. HORIZONTAL CONTROL IDENTIFIED	2. VERTICAL CONTROL IDENTIFIED
None	NA
PHOTO NUMBER STATION NAME	PHOTO NUMBER STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details)	
73E(C) 9099 and 9100	
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED	
PHOTO NUMBER OBJECT NAME	PHOTO NUMBER OBJECT NAME
73E(C)9100 TV. TR. 73E(C)9100 TANK 73E(C)9100 STACK	
5. GEOGRAPHIC NAMES: REPORT X	NE 6. BOUNDARY AND LIMITS: REPORT [X] NONE
7. SUPPLEMENTAL MAPS AND PLANS	
None	
OTHER FIELD RECORDS (Sketch books, etc. DO NOT	t data submitted to the Geodesy Division)
4 Form 76-40's 1 Original Field Edit Ozalid	
1 Addenda Field Edit Report	

NOAA FORM 76-36D (3-72) U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

TP-00730

# RECORD OF SURVEY USE

I. MANUSC	RIPT COPIES	<u></u>				<del>".                                    </del>
	co	MPILATION STAGE	s		DATE MANUSCR	PT FORWARDED
,	DATA COMPILED	DATE	RE	MARKS	MARINE CHARTS	HYDRO SUPPORT
	ation complete, g field edit.	2/74	Class III Supers	Manuscript seded	3/74	3/74
	edit applied. ation complete.	4/75	Class I Ma	anuscript	5/77	
Final	Review	Jan. 1978	Fina	1	Feb. 1978	
	:					
	ARKS AND AIDS TO NAVIGA					· <del></del>
I. REP	ORTS TO MARINE CHART DI	<u>vision, nautical</u> I	DATA BRANCH	<del></del>	<del></del>	<del></del>
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED			REMARKS	
1		6/16/77	Priv. aids	and Na	utical mile m	arkers
<b>.</b>		-6/16/77	  ≪ <del>Nautical</del>	ilo murker	<b>2</b>	
1		6/16/77	Landmarks	•		
1		6/16/77	Priv. aid	to be dele	ted.	
		·				
	REPORT TO MARINE CHART REPORT TO AERONAUTICAL					
	RAL RECORDS CENTER DAT			<u>—i — . — i — i — i — i — i — i — i — i —</u>	···	
		Paten		cern.		
1. [X]	BRIDGING PHOTOGRAPHS;	X DUPLICATE	BRIDGING REPO	RT: X COMP	PUTER READOUTS.	
	CONTROL STATION IDENT! SOURCE DATA (except for G				D BY FIELD PARTIES.	Į
٠	ACCOUNT FOR EXCEPTION	S:	porty AS Els ( EB )	M 320110M 11, N	OAA 7 OKM 70-300.	
,					•	
	DATA TO FEDERAL RECOR					
IV. SURVE	Y EDITIONS (This section s	JOB NUMBE		pedition is regis		
SECOND	TP -	(2) PH -			TYPE OF SURVEY	URVEY
EDITION	DATE OF PHOTOGRAPH				MAPCLASS	
				□n. □	]ııı. □ıv. □v.	FINAL
	SURVEY NUMBER	JOB NUMBE	R		TYPE OF SURVEY	
THIRD	TP	(3) PH				URVEY
EDITION	DATE OF PHOTOGRAPH	Y DATEOFFI	ELD EDIT		MAPCLASS IIII. □IV. □V.	DFINAL
	SURVEY NUMBER	JOB NUMBEI	R		TYPE OF SURVEY	
FOURTH	TP	. (4) PH			REVISED RES	ŪRVĖY
EDITION	DATE OF PHOTOGRAPH	Y DATE OF FI	ELD EDIT	n	MAP CLASS	_



#### SUMMARY TO ACCOMPANY

#### DESCRIPTIVE REPORTS TP-00728 thru TP-00736

The maps covered in this summary comprise all of Project CM-7311. They are all standard shoreline maps covering Commencement Bay and including the Hylebos, Blair, Sitcum, Milwaukee, Puyallup, St. Paul, Middle and City Waterways. The purpose of the project is to provide up-to-date shoreline and alongshore delineation in support of contemporary hydrographic surveys and for nautical chart construction. All maps are 1: 5,000 scale.

Photography of the area was flown at 1:15,000 scale in June, 1973. Both onshore and offshore flights were flown. Ratios of the offshore flights were processed by the compilation office for photo-hydro support.

Field work prior to compilation was limited to the recovery and identification of horizontal control used in bridging. There was no clearification of details.

Bridging was done at the Washington Science Center in January, 1974, using the onshore flights. Analytic triangulation methods were used. Points common to the offshore flights were established to determine ratio scales.

The maps were compiled at the Atlantic Marine Center during February and March, 1974, by Wild B-8 instrument method.

Many buildings currently charted are not shown on the maps. In most cases, buildings are shown on the chart as they appear on the photographs. However, in a few instances buildings shown on the chart are not visible on the photographs. Where this is so, that fact is stated in the review report of the affected map.

Field edit was partially done in April, 1974 and completed in December, 1974. It was applied to the maps at the Atlantic Marine Center in May, 1975.

Final review was performed at the Atlantic Marine Center in January, 1978. The original base maps and all pertinent data was forwarded to the Washington Science Center for final registration.

#### FIELD INSPECTION

# TP-00730

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

# PHOTOGRAMMETRIC PLOT REPORT Tacoma Harbor

Washington
Job CM-7311
January 1974

#### 21. Area Covered

The area covered by this report pertains to the shoreline of Commencement Bay, Tacoma, Washington. This area is covered by nine 1:5,000 scale sheets, TP-00728 thru TP-00736.

#### 22. Method

Three strips of 1:15,000 scale color photography were bridged by analytic aerotriangulation methods. Strip No. 1 was measured on the David W. Mann Company mono comparator Model 422 and strips 2 and 3 were measured on the Wild stereo comparator. Sketch number 1 shows the flight lines of the photography and the placement of the control used in the adjustment. The three strips were controlled by field identified control paneled in 1973. Old control, which was office identified, was floated for checks. Ties were made between all bridging strips. Common points were located between the bridging photography and the offshore flights to determine the ratio scale. One cronapaque and one matte each were ordered of the offshore flights. Sketch number 2 shows the flight lines of the offshore photography. Data for ruling projections were furnished to the Coradomat to be plotted on the Washington South Plane Coordinate System.

# 23. Adequacy of Control

The control was adequate.

# 24. Supplemental Data

USGS quadrangles were used to provide vertical control for the adjustment.

# 25. Photography

The photography was adequate.

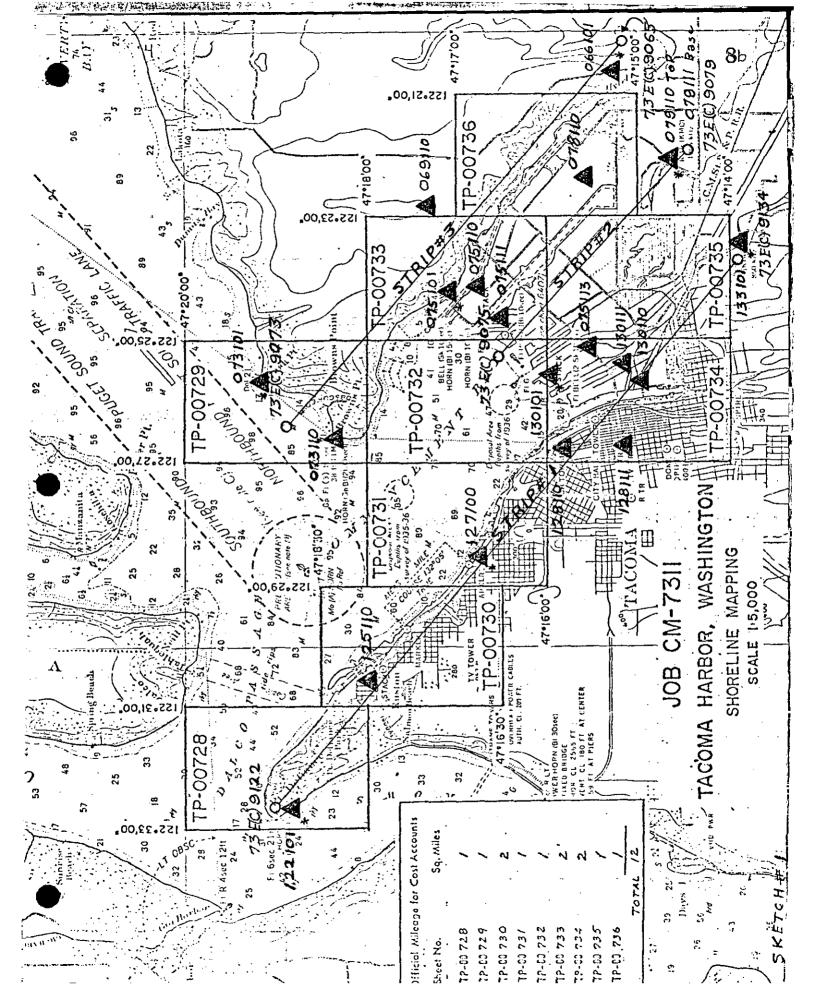
Respectfully submitted,

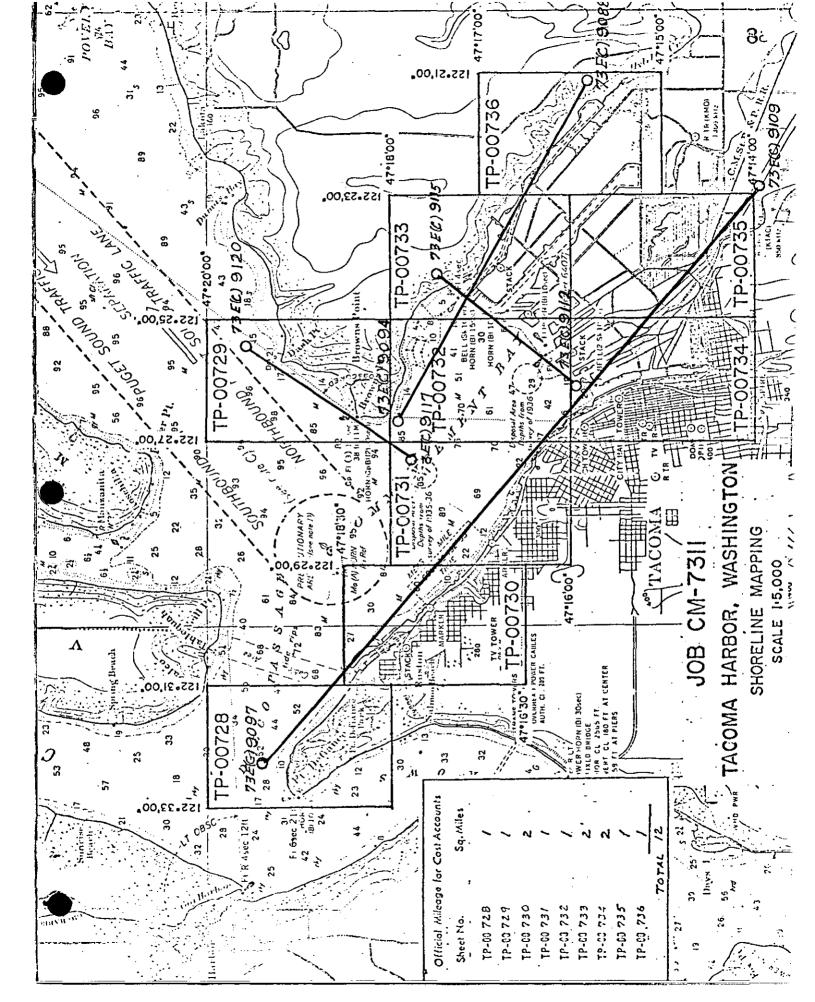
Juy O Roboun Ivey O. Raborn

Approved and Worwarded:

John D. Perrow, Jr.

Chief, Aerotriangulation Section





100AA FORM 76-41 (6-75)		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	DEPARTMENT O	F COMMERCE
MAP NO.	JOB NO.		GEODETIC DATUM	2000	ORIGINATING ACTIVITY	10000	Wommt n a
TP-00730	CM~7311	311		1927	Division, AMC,	Norfolk.	Virginia
	SOURCE OF	AEROTRI-	COORDINATES IN FEET	GEOGRAPHIC			0
STATION NAME	INFORMATION (Index)	POINT	STATE	-	LATITUDE LONGITUDE	REMARKS FORMARD	RACK
	G.P. Vol I		χ=	t 47 d	17 49.428	1526.4	(326.5)
AND KEFINING CO., SIACA,			y=		30 21.720	456.3	(804.3)
RITTER. 1934			-X	C 27 φ	17 32.172	993.5	(859.4)
	P. 210		y=	λ 122 2	29 40.583	852.7	(408.0)
RESERVOT TANK 1927			=χ	φ 47 ]	16 34.347	7.060.T	(792.2)
	P. 87	;	ή=	) 122 X	30 37.538	789.0	(472.1)
TACOMA, T.V. STATION KMO,			<i>=</i> χ	_	16 44.132	6*298T	(0.067)
MAST, 1954	P. 1639		ή=		30 41.943	881.5	(379.5)
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			ή=	Υ .			
			=χ	ф			
			'n=	γ			
			=χ	φ			
			y=	γ			
			=χ	φ			
			<i>y=</i>	γ			
			-χ	Φ.			
			<i>η</i> =	γ			
			=χ	φ			
			<i>ή</i> =	Υ.			
COMPUTED BY A. C. Rauck, Jr.	•	DATE 1/30/74	COMPUTATION CHECKED BY	F. R. Gustafson	son	DATE 2/01/74	7/
LISTED BY		DATE	LISTING CHECKED BY			DATE	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY			DATE	
		SUPERSEDES N	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	WHICH IS OBSOLET	Ē.		]9

#### COMPILATION REPORT

#### TP-00730

## 31. <u>DELINEATION</u>:

Delineation was by the Wild B-8 stereoplotter, using 1:15,000 scale color photography. The photo coverage was adequate.

#### 32. CONTROL:

See the attached Photogrammetric Plot Report dated January 1974.

#### 33. SUPPLEMENTAL DATA:

None.

#### 34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

## 35. SHORELINE AND ALONGSHORE DETAILS:

Alongshore details and the mean high water line were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

#### 36. OFFSHORE DETAILS:

None.

#### 37. LANDMARKS AND AIDS:

Compilation office prepared work copies of Forms 76-40 were forwarded to the field editor for verification, location and/or deletion.

## 38. CONTROL FOR FUTURE SURVEYS:

None.

#### 39. <u>JUNCTIONS</u>:

See the attached Form 76-36B, Item #5 of the Descriptive Report concerning junctions.

#### 40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

## 46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the following USGS Quadrangles: GIG HARBOR, WASHINGTON, scale 1:24,000, 1959, photorevised 1968; and TACOMA NORTH, WASHINGTON, scale 1:24,000, 1961, photorevised 1968.

#### 47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following USC&GS Chart: No. 6407, scale 1:15,000, January 27, 1973, 12th edition.

# ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

## ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Gary R. Vanderhaven

Cartographer

February 28, 1974

Approved for forwarding:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

January 11, 1978

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7311 (Tacoma Harbor, Washington)

TP-00730

Burlington Northern (RR)

Commencement Bay

Ruston

Approved by:

Charles E. Harrington Staff Geographer - C51x2

NOAA FORM <b>75-74</b> (7-75)			1	J.S. DEPARTMENT OF COMMERCE NOAA
, (1-1-1-1)	PHO		RIC OFFICE REVIEW 2 - 00730	NATIONAL OCEAN SURVEY
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
RRW	RI	RW	RRW	RRW
CONTROL STATIONS	•		· · · · · · · · · · · · · · · · · · ·	
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF ACCURACY	6. RECOVERAS OF LESS TH (Topographic	BLE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
RRW		, , , , , , , , , , , , , , , , , , , ,	NA.	NA
8, BENCH MARKS	9. PLOTTING	OF SEXTANT	10. PHOTOGRAMMETRIC	11. DETAIL POINTS
RRW	Δ1	LS	RRW	RRW
ALONGSHORE AREAS (Nautica			1007	- Luker
12. SHORELINE	13. LOW-WATE	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
RRW		RW	RRW	RRW
16. AIDS TO NAVIGATION	17. LANDMARI	<b>cs</b>	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
RRW	RI	RW	RRW	RRW
PHYSICAL FEATURES	•			
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS
RRW	•	·	NA	NA NA
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOUR	S IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
NA	N.	A	NA.	RRW
CULTURAL FEATURES				
27. ROADS	28. BUILDING	S	29. RAILROADS	30. OTHER CULTURAL FEATURES
RRW	RI	RW	RRW	RRW
BOUNDARIES 31. BOUNDARY LINES			32. PUBLIC LAND LINES	
	IΑ		32. FUBLIC LAND LINES	NA
	in.		. <b>.</b>	NA .
MISCELLANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTION	5	35. LEGIBILITY OF THE MANUSCRIPT
RRW			RRW	RRW
36. DISCREPANCY OVERLAY	37. DESCRIPT	IVE REPORT	38. FIELD INSPECTION	39. FORMS
RRW	וָק	RW	RRW	RRW
40. REVIEWER	<del>'</del>		SUPERVISOR, REVIEW SECTION	<del></del>
Richard R. G.	)hit		! Albert Ch	auch ()
Richard R. White		2/74	Albert C. Rauck, J	r
41. REMARKS (See attached she FIELD COMPLETION ADDITION	<del></del>	TIONS TO THE M	ANIISCRIPT	
42. Additions and correction	s furnished by th	ne field complet		to the manuscript. The manu-
script is now complete ex	ton	4/75	ISUPERVISOR L ~ /	
Reviewer A. L. Sha	.nds	5/75	Albert C. Rauck. J	auch h.
43. REMARKS Q. J. A.A.	ands		-l	
Refer to For	m 76-360's	, Item 8.		
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FIELD EDIT REPORT

COMMENCEMENT BAY

TACOMA, WASHINGTON

OPR-412

MARCH - APRIL 1974

#### INTRODUCTION

Field edit reports are attached for the following maps: TP-00728, TP-00729, TP-00730, TP-00731, TP-00732, TP-00733, TP-00734, TP-00735, and TP-00736. Copies of the Field Edit Ozalids and extra ozalids were compared in the field with actual shore features. The field edit was done before signals were built in many areas, so positions of many items were estimated relative to nearby features. In many instances these positions fell on one or more natural ranges. Some sextant fixes were possible and were recorded for future reference. Height data for all features were noted as referenced to MLLW or MHW or simply by time and date. Unless followed by a "Z" for GMT, all times are in Zone +7 (105° meridian).

All notes have been made in violet ink on the Field Edit Ozalids with the exception of TP-00733 for which another sheet was used and labeled "Smooth Ozalid." All deletions are noted or underlined with green ink.

During our work in the survey area, a great deal of new construction was observed. Shoreline construction sites were noted - as fully as possible - on the ozalids. It is suggested that any questions about new piers, etc. under contruction be directed to the Property Manager, Port of Tacoma (adress below).

Hugh Wild Property Manager Port of Tacoma P.O. Box 1837 Tacoma, WA 98401

Compilation of the maps agreed well with actual shore features; any discrepancies are noted on the ozalids. Field edit of these manuscripts is not complete, especially for the inland. It is felt that all shore features of importance to the mariner have been adequately covered and noted.

Submitted by,

R. W. meice

R.W. Mercer ENS, NOAA

Approved by,

M.H. Fleming CDR, NOAA Commanding Officer NOAA SHIP DAVIDSON

MAP TP-00730
TACOMA, WASHINGTON

MARCH-APRIL, 1974

Field edit of map TP-00730 was done by Ens. Joseph J. Kapler during the months of March and April, 1974. This report was compiled by Ens. Roger W. Mercer, May, 1974. Inspection was done from small boats and on foot when required.

#### METHODS AND NOTES

A copy of the Field Edit Ozalid was examined in the field and compared with actual shore features. Mean Hight Waterline verification was done by visual comparison with manuscript. Sextant fixes were taken on three piles not on the manuscript; fix data were appended to this report. One uncharted dolphin was discovered near the ferry landing (approx. N 47° 18′ 24.6″, 122° 30′ 45″ W) and due to the lack of photos from which good radial intersections were possible, was pricked directly from one photograph (9099). No positions of the measured mile markers were obtained by field methods; these postions should be available from the Port of Tacoma Property Manager (address appended). The position of lights on American Smelting and Refining Corporation piers were marked on the Ozalid but not obtained by field methods. These lights are not considered to be valuable aids to the mariner and consequently should not be listed as landmarks. Many floats located by the compiler were found missing but will probably be re-established during the summer boating season.

All times are based on the 105° meridian (zone +7).

Note #1

A search was made for station TARGET, 1952, and no brass disc was found. It has been assumed that this station was located by intersection on a pile near the corner of the pier ruins. These piles are not stationary enough for lasting triangulation.

# ADEQUACY OF COMPILATION

Compilation of this map seems good. Photogrammetrically located features agreed well with adjacent hydrographic locations.

# RECOMMENDATIONS

It is recommended that this map be revised as per field edit notes on the Field Edit Ozalid and then be accepted as an advanced manuscript.

Respectfully submitted,

Roger W. Mercer Roger W Mercer ENS, NOAA

#### ADDENDA FIELD EDIT REPORT

Commencement Bay, Washington Dec 1974 - Jan 1975 OPR-412 Project CM-7311

This report is a follow-up and completion of the original field edit accomplished in this area in March and April of 1974. Certain deficiencies were noted in the original field edit; and this report is being submitted to correct, clarify, or alleviate any errors or misconceptions that may have been conveyed in the original report.

Although this report was not intended to be a complete re-field edit of the area, certain items from the previous report were checked to verify positions and resolve suspect features. It is suspected the original field editors did not use the photographs to their full advantage as the majority of items in question could be located by photogrammetric methods.

The majority of the landmarks were verified by computing the inverse for intersection stations and occupying marked triangulation stations and observing theodolite cuts.

The field edit copies of the manuscripts were used for the field corrections (in blue and dated) and the photographs were cross-referenced to the field edit copies.

Adequacy: The extent and accuracy of this field edit with amended items of the original field edit and completed forms 76-40 now appears complete.

Pertinent information for each individual discrepancy sheet is listed under that specific sheet.

#### TP-00728

Re-field edited 12/11/74. Agreed with the original field edit except the bluff in question is considered of landmark value. It is of significant height, and distinct boundaries are clear as plotted.

For verification of Pt. Defiance Light see attached NOAA Form 76-40.

#### TP-00729

Re-field edited 12/11/74. Original field edit complete. Brown Point Lighthouse recovered. See attached form 76-40.

#### TP-00730

Re-field edited on 12/12/74, 12/13/74, and 1/10/75. All landmarks were recovered. Lighted aids to navigation were located by photogrammetric methods on photograph 73E9100. The triangulation station TARGET, 1952, in question was reported destroyed in 1965 by H.J.S. (page 41 of book 392) and no attempt was made to recover it.

The position of the Commencement Bay Measured Nautical Mile northwest range front marker was determined by an angle distance from reference mark of the triangulation station TARGET. The position of the northwest range rear marker was determined by an angle and distance from the reference mark of triangulation station BLUFF, 1935. Both positions are less than third order. See the enclosed computations and form 76-40.

#### TP-00731

Re-field edited on 12/12/74. The positions of the Commencement Bay Measured Nautical Mile southeast markers, both front and rear, were determined by an angle and distance from RUSTON, RM NO2. Both positions are less than third order. See the enclosed computations and form 76-40.

#### TP-00732

Re-field edited on 12/10/74. Nonfloating aids to navigation were triangulation stations that were recovered. The new stack considered of landmark value was located photogrammetrically.

The Grain Export Facility under construction in April, 1974, is nearing completion. The pier faces are complete with work on the tower continuing. Port authorities expect to have the facility in operation in June, 1975. The plans for this facility were obtained and are enclosed.

#### TP-00733

This sheet was re-field edited on 12/10/74, 1/6/75, and 1/10/75. Two charted tanks are gone and should be deleted from the charts. See enclosed form 76-40.

Three landmarks (triangulation stations) were recovered and recovery notes submitted. The twin chimneys were located photogrammetrically on photograph 73E9091. The charted stack mentioned in the April, 1974, field edit as being of no landmark value is considered of landmark value in this report. Although poorly visible from Commencement Bay, it is quite distinguishable in the Hylebos Waterway. See photograph 73E9091.

Two large dome-shaped storage elevators depicted on the charts, but not compiled on the ozalid, should be left on the charts, as they are salient features and visible from offshore in Commencement Bay. See photograph

73E9113. Two navigation lights were recovered, and the fog signals were located photogrammetrically on photograph 73E9114.

#### TP-00734

The three items not previously investigated were field edited 12/12/74 and noted on the ozalid. One nonfloating aid to navigation was recovered. One tank, as noted on form 76-40, should be deleted from the chart, as it no longer exists.

Fourteen landmarks were located. Twelve were triangulation and were recovered. Two were located photogrammetrically on photograph 73E9104.

#### TP-00736

ramp A.L.J.

Re-field edited 12/12/74. The new boat, was located on photograph 73E9090 by planetable methods. It is a private boat ramp and not maintained by the port authorities. The two stacks considered of landmark value by this field edit were located photogrammetrically on photograph 73E9089 and 73E9088.

There is new construction of a barge-loading facility in the Blair Water-way turning basin. The plans for this facility were obtained from the Port authorities and are enclosed.

Respectfully submitted,

D.S. Eilers LTJG, NOAA Approved by,

Michael H. Fleming

CDR, NOAA

Commanding Officer

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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.

D.S. GOVERNMENT PRINTING OFFICE: 1974-665-073/1030 Region 6

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NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 75-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.



HYDROGRAPHIC PARTY
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NOAA FORM 78-40 (8-74)

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



#### REVIEW REPORT TP-00730

#### SHOREL I NE

January 13, 1978

#### 61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

A float, shown on the Class III map alongside a pier at lat. 47 17.3, long. 122 29.3 was not in place during field edit. The field editor noted the existence of a float 15 meters north of that position. It is probable that this is the same float temporarily out of its normal position. Field verification of this is needed. The position shown on the final map is that given by the field editor.

# 62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS: Not applicable.

# 63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

#### 64. COMPARI SON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with a copy of Final Verified Smoothsheet H-9412 (DA-5-3-74) which covers the area of the map from long. 122 29'00" to 122 29'15". No significant differences exist.

Efforts were made to obtain a copy of Final Verified Smoothsheet H-9410. This reviewer was informed by the Chief, Data Control Branch, that copies are unavailable at this time. Therefore, no comparison was made from long. 122 29'15" west ward.

#### 65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 18453, 1:15,000 scale, 14th edition dated May 29, 1976.

Four lighted markers and the nautical mile markers on both the map and chart, are not listed in the light list (Vol. III, 1977 edition). Positions of all of these aids were supplied by the field editor.

Portions of the railroad and some onshore buildings in the vicinity of the Tacoma Yacht Club were overlooked during compilation. Examination of the photographs reveals those features to be as shown on the chart.

#### 66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:

Q. L. Shands

A. L. Shands Final Reviewer

Approved for forwarding:

Albert C. Ranch J. Fea.

Jeffrey G. Carlen

Chief, Coastal Mapping Division, AMC

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping

Division

#### NAUTICAL CHART DIVISION

# **RECORD OF APPLICATION TO CHARTS**

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00130

#### 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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