# TP-00730 ORIGINAL

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. CM-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
	☑ ORIGINAL	MAP EDITI	on no. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLAS	s Final
	REVISED	JOB	MRC_CM-7311
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAD EN	TIOM
Coastal Mapping Division	TYPE OF SURVEY		PH-
Atlantic Marine Center, Norfolk, VA	ORIGINAL	MAP CLASS	
OFFICER-IN-CHARGE	RESURVEY	SURVEY D	
	REVISED	19TO 19	
Jeffrey G. Carlen, Cdr., NOAA	<u> </u>		<del></del>
I. INSTRUCTIONS DATED	<del>_</del>		
1. OFFICE	<del> </del>	FIELD	
Aerotriangulation Aug 30,/1973 Compilation Jan 22,/1974	May 17, 1	973	
	·		
II. DATUMS	OTHER (Specify)		
). HORIZONTAL: [X] 1927 NORTH AMERICAN			
IX MEAN HIGH-WATER  MEAN LOW-WATER  MEAN LOWER LOW-WATER  X MEAN SEA LEVEL	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	<del></del>		
OPERATIONS	NAME		DATE
1. AEROTRIANGULATION BY	I. O. Raborn		1/74
METHOD: Analytic LANDMARKS AND AIDS BY			
2. CONTROL AND BRIDGE POINTS PLOTTED BY	R. Robertson		1/74
METHOD: Calcomp CHECKED BY	D D 77.41		
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	R. R. White		2/74
COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY	L. O. Neteren		14</td
scale: 1:7,500 CHECKED BY	NA NA		<del> </del>
4. MANUSCRIPT DELINEATION PLANIMETRY BY	G. R. Vanderh	naven	2/74
CHECKED BY	R. R. White		3/74
METHOD: Smooth Draft	NA		
CHECKED BY	NA		
scale: 1:5,000 HYDRO SUPPORT DATA BY	G. R. Vanderh	aven	2/74
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 A. L. Shands	·	4/75 5/75
7. COMPILATION SECTION REVIEW BY	A. C. Rauck,	Jr.	5/77
8. FINAL REVIEW BY	A L Shands	<u> </u>	Jan 1978
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	A. L. Shands	<del></del>	Mar 1978
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	J. B. Philli	PS	March 1978
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	R.T. CATON		MAY 197X

SUPERSEDES FORM C&GS 181 SERIES



NOAA FORM 76-36 A

NOAA FORM 76-36B (3-72)			NATIONAL OCE		ATMOSPHERIC	NT OF COMMERCI
	CO	TP-0073			NATIONA	AL OCEAN SURVE
1. COMPILATION PHOTOGRAPH		mi italion				
CAMERA(S)	11	TYPES	OF PHOTOGRAPHY	<del></del>		
Wild RC-8 "E"		] '''-	LEGEND		TIME REF	ERENCE
TIDE STAGE REFERENCE		[[(C) COLO	OR .	ZONE	. i fi .	T)STANDAR
A PREDICTED TIDES  REFERENCE STATION RECO	RDS	, ·	CHROMATIC	MERID	cific	<del>  "</del>
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NUMBER AND TYPE	DATE	TIME	SCALE		STAGE O	F TIDE
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		<u></u>				
REMARKS						·
2. SOURCE OF MEAN HIGH-WAT	TER LINE:					
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The mean high water	TIUG MWS GGIIU	eared ire	w cue anove ;	rraced b	nocograpi	ıy.
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3. SOURCE OF MEAN LOW-WAT	ER OR MEAN LOWER L	OW-WATER LI	NE:			
None compiled.						
					·	
4. CONTEMPORARY HYDROGRA	APHIC SURVEYS (List	only those surv	yeys that are sources	for photogran	metric survey	information.)
SURVEY NUMBER DATE(S)	SURVEY CO	PY USED S	SURVEY NUMBER	DATE(S)	SURV	EY COPY USED
5. FINAL JUNCTIONS	<del></del>			<u>.l</u>		
NORTH	EAST		OUTH .		WEST	
No Survey	TP-0073	1	No Survey	<u> </u>	TP-	00728
REMARKS						

OAA FORM 76-36( 1-72)	С	·	NATIONAL OCEA	U. S. DEPARTMI	ENT OF COMMER
		TP-0073	30 ·		AL OCEAN SURV
		HISTORY OF FIELD	OPERATIONS		
T FIELD INSP	ECTION OP	ERATION FIEL	D EDIT OPERATION		
	C	PERATION		NAME	DATE
CHIEF OF FIEL	D PARTY		ם ם	Molher	6/73
		RECOVERED BY		Melby Melby	6/73
. HORIZONTAL C	CONTROL	ESTABLISHED BY	None	110103	9/12
		PRE-MARKED OR IDENTIFIED BY	None	· · · · · · · · · · · · · · · · · · ·	<del></del>
		RECOVERED BY	NA		
VERTICAL CON	NTROL	ESTABLISHED BY	. NA		
		PRE-MARKED OR IDENTIFIED BY	NA		
		RECOVERED (Triangulation Stations) BY	None		
LANDMARKS AI		LOCATED (Field Methods) BY	None		
AIDS TO NAVIG	ATION	(DENTIFIED BY	None	<del></del>	
	\	TYPE OF INVESTIGATION		<u></u>	
GEOGRAPHIC N	IAMES	COMPLETE			
INVESTIGATION	N	SPECIFIC NAMES ONLY			
		X NO INVESTIGATION			
. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	None		
BOUNDARIES A	ND LIMITS	SURVEYED OR IDENTIFIED BY	NA.		
. SOURCE DATA					
HORIZONTAL C	CONTROL II	DENTIFIED		TROL IDENTIFIED	
None			NA		
HOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION DE	SIGNATION_
. PHOTO NUMBE	RS (Clarific	stion of details)	<u></u>		
None					
	ND AIDS TO	NAVIGATION IDENTIFIED			
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	L MAPS AN				RT Y NONE
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None  OTHER FIELD	L MAPS AN	D PLANS			RT V NONE

I. TIELD INSPECTION OP	ERATION X FIEL	D EDIT OPERATION	
0	PERATION	NAME	DATE
. CHIEF OF FIELD PARTY		M Flowing	2/7/ 1/7
	RECOVERED BY	M. Fleming None	3/74 - 4/7/
. HORIZONTAL CONTROL	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY		
	RECOVERED BY		
. VERTICAL CONTROL	ESTABLISHED BY	NA	
	PRE-MARKED OR IDENTIFIED BY		
	RECOVERED (Triangulation Stations) BY	N	
LANDMARKS AND	LOCATED (Field Methods) BY	None	
AIDS TO NAVIGATION	IDENTIFIED BY	None	
	TYPE OF INVESTIGATION	1,0110	
S. GEOGRAPHIC NAMES	COMPLETE		
INVESTIGATION	SPECIFIC NAMES ONLY		
	Y NO INVESTIGATION		
S. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	
BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	
I. SOURCE DATA			
I. HORIZONTAL CONTROL ID	ENTIFIED	2. VERTICAL CONTROL IDE	NTIFIED
None		NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER S	TATION DESIGNATION
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None	·		
None	NAVIGATION IDENTIFIED		
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PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
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GEOGRAPHIC NAMES:	REPORT NONE	6. BOUNDARY AND LIMITS:	REPORT   NONE
, SUPPLEMENTAL MAPS ANI	<del></del>		<u></u>
None			•
OTHER FIELD RECORDS (S	iketch books, etc. DO NOT list data submi	tted to the Geodesy Division)	

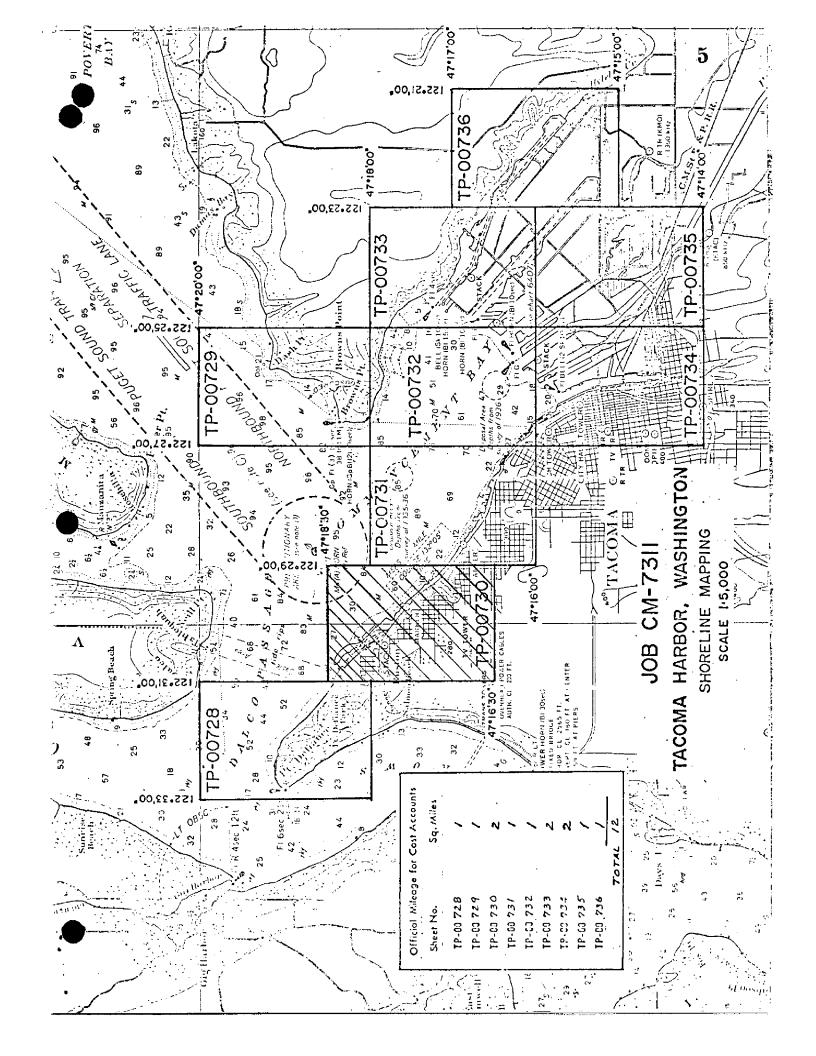
NOAA FORM 76-36C				3
(3-72)	mb 0083		NIC AND ATMOSPHE	MENT OF COMMERC RIC ADMINISTRATIO NAL OCEAN SURVE
	TP-0073 HISTORY OF FIELD			
I. TIELD INSPECTION	ON OPERATION THE	LD EDIT OPERATION		
	OPERATION		NAME	DATE
1. CHIEF OF FIELD PA	RTY	M. Fl		12/74 - 1/7
-	RECOVERED BY	00	- D. Eilers	12/74
2. HORIZONTAL CONT		T) 1712	long	10/7/
	PRE-MARKED OR IDENTIFIED BY RECOVERED BY	NT A	Ters	12/14
. VERTICAL CONTROL		37.4		
	PRE-MARKED OR IDENTIFIED BY	37.5		
	RECOVERED (Triangulation Stations) BY	T. Riggord	- D. Eilers	12/74
LANDMARKS AND	LOCATED (Field Methods) BY	Mana		
AIDS TO NAVIGATIO	N IDENTIFIED BY	D E4	lers	12/74
	TYPE OF INVESTIGATION			
GEOGRAPHIC NAMES	BY	•	,	
INVESTIGATION	SPECIFIC NAMES ONLY	·		
	X NO INVESTIGATION			
PHOTO INSPECTION			Lers	12/74
. BOUNDARIES AND L	IMITS SURVEYED OR IDENTIFIED BY	NA NA		
HORIZONTAL CONTE	ROL IDENTIFIED	2. VERTICAL CO	NTROL IDENTIFIED	
None	•	NA .		
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION D	ESIGNA TION
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GEOGRAPHIC NAMES		f DOUNDARY		
SUPPLEMENTAL MA		6. BOUNDARY AN	ID LIMITS: REP	ORT X NONE
TO SOFFEE MENTAL MA	- AND FEARS			
None				
OTHER FIELD RECO	RDS (Sketch books, etc. DO NOT list data subm	itted to the Geodesy D	livision)	
4 Form 76-40	s	•		
	leld Edit Ozalid			
l Addenda Fie	eld Edit Report			
	<b>-</b>			

NOAA FORM 76-36D (3-72)

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

TP-00730

] .		RECO	RD OF SURVE	Y USE		
I. MANUSC	RIPT COPIES					
<del></del> -		OMPILATION STAGE	T		DATE MANUSCRI	
	DATA COMPILED	DATE	<u> </u>	MARKS		HYDRO SUPPORT
	ation complete, g field edit.	2/74	Class III Supers		ot 3/74	3/74
	edit applied. ation complete.	4/75	Class I Ma	anuscript	5/77	
Final	Review	Jan. 1978	Fina	ι1 	Feb. 1978	
	ARKS AND AIDS TO HAVIG		<del></del>			
I. REPO	ORTS TO MARINE CHART D	IVISION, NAUTICAL	DATA BRANCH			
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED			REMARKS	
1		6/16/77	Priv. aids	3. and N	autical mile m	arkers
æ		-6/16/17	Nautical a	<del>nilo mar<u>k</u>e</del>	##S	
1		6/16/77	Landmarks.	•		
1		6/16/77	Priv. aid	to be del	eted.	
	REPORT TO MARINE CHAR' REPORT TO AERONAUTICA					
	RAL RECORDS CENTER DA		, AEHONAUTIONE	- DATA SECTION	ON. DATE FORMANDED.	
2.	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENT SOURCE DATA (except for G ACCOUNT FOR EXCEPTION	TFICATION CARDS; Geographic Names Re	X FORM NOS	S SESSUBMITT		
4 🗀	DATA TO FEDERAL RECO	RDS CENTER. DAT	E FORWARDED:			-
IV. SURVE	Y EDITIONS (This section :			p edition is regi		
SECOND	TP .	(2) PH	i	ļ Ī	TYPE OF SURVEY	URVEY
EDITION	DATE OF PHOTOGRAP			   □11. [	MAP CLASS	FINAL
	SURVEY NUMBER	JOB NUMBER	R		TYPE OF SURVEY	
THIRD	TP -	(3) PH		[	REVISED RES	URVEY
EDITION	DATE OF PHOTOGRAPI	HY DATEOFFI	ELD EDIT		MAP CLASS	
	SURVEY NUMBER	JOB NUMBER	R		TYPE OF SURVEY	_
FOURTH	TP - DATE OF PHOTOGRAPI	_ (4) PH HY DATE OF FII	ELD EDIT	 	REVISED ☐ RESI	JRVÉY
EDITION	OATE OF FINOTOGRAPH	DATE OF FIL	ECD EDIT	□u. (	□HI. □IV. □V.	FINAL



#### 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. 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.

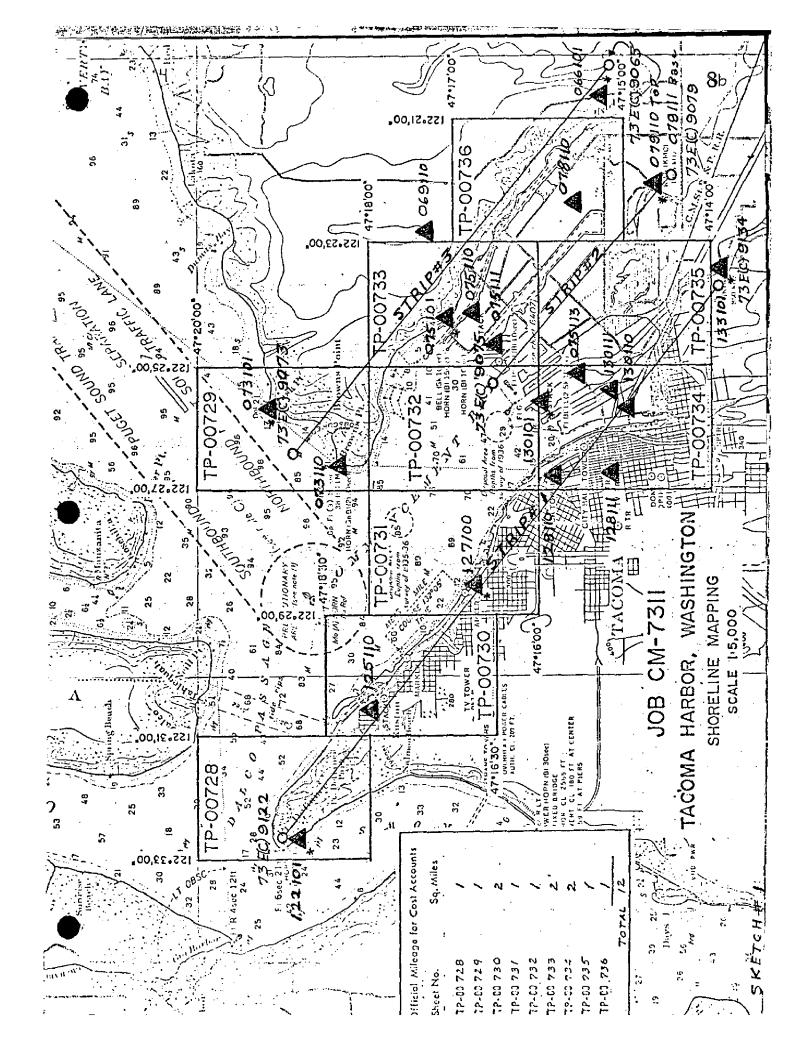
Respectfully submitted,

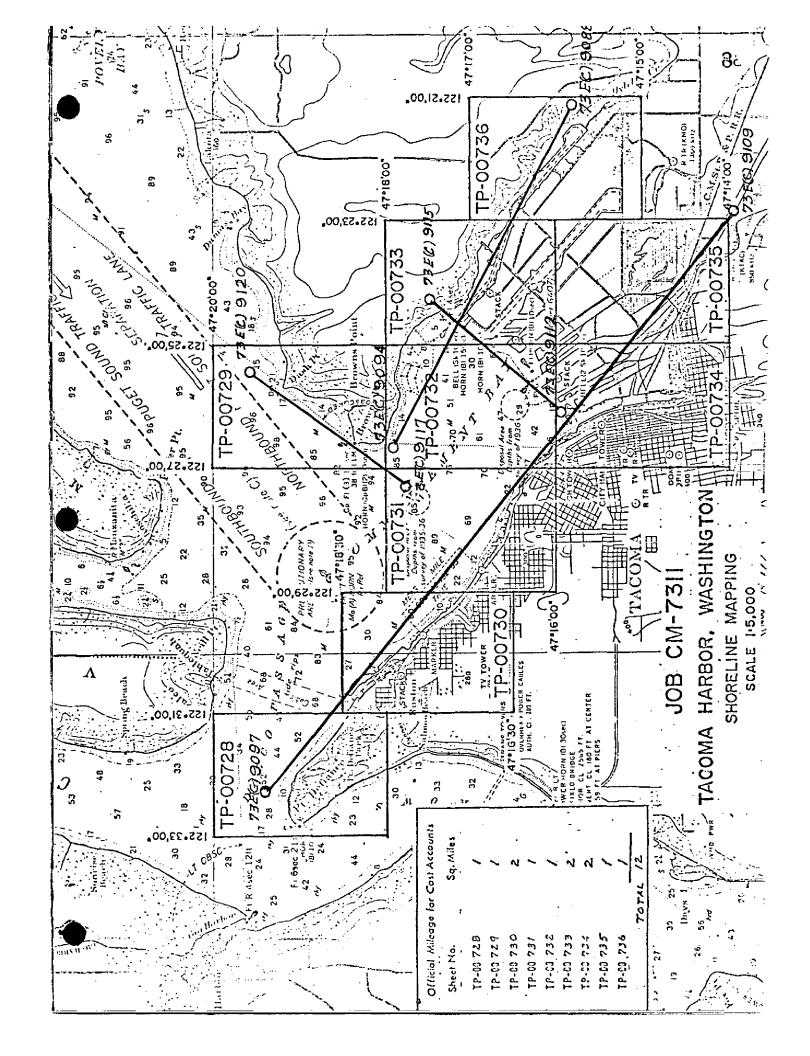
Juy O Robon Ivey O. Raborn

Approved and Worwarded:

John D. Perrow, Jr.

Chief, Aerotriangulation Section





NOAA FORM 76-41				U.S. DEPARTMENT OF COMMERCE	U.S. DEPAR	TWENT OF CO	MMERCE
(c)-0)		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD		HAROMIN ONC A	ENIC AUMINIS	Z Z
MAP NO. TP-00730	LOB NO.	ררב	GEODETIC DATUM	ORIGINATIN 1927	CTIVITY	1.	Mapping
05100-11		\	TIN	L)z'	AMC	Norfolk, Vi	rginia
STATION NAME	SOURCE OF	ARGULATION	STATE	GEOGRAPHIC POSITION	· ·	REMARKS	
	(Index)	POINT	ZONE		FORWARD		BACK
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			ig=	λ 122 30 21.720		456.3 (8	(804.3)
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COMPUTED BY A. C. Rauck, Jr.		DATE 1/30/74	COMPUTATION CHECKED BY	F. R. Gustafson	DATE	2/01/74	
LISTED BY		DATE	LISTING CHECKED BY		DATE		
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY	34	DATE		
		SUPERSEDES N	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	N WHICH IS OBSOLETE.		:	9

#### COMPILATION REPORT

#### TP-00730

#### 31. DELINEATION:

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. JUNCTIONS:

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:

albut C. Hanck.

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 75-74				J.S. DEPARTMENT OF COMMERCE
(7–75)	PHO	TOGRAMMET	RIC OFFICE REVIEW	NATIONAL OCEAN SURVEY
			- 00730	
1. PROJECTION AND GRIDS	2. TITLE	<del> </del>	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
1. I HOSECTION AND CHIES			The state of the s	
RRW	RI	W	RRW	RRW
CONTROL STATIONS	•	· · · · · · · · · · · · · · · · · · ·		
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF	6. RECOVERAS	LE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
	,	(Topographic	etations)	171
RRW 8, BENCH MARKS	7. PLOTTING	) DF SEXTANT	NA 10. PHOTOGRAMMETRIC PLOT REPORT	NA 11. DETAIL POINTS
	FIXES		PLOT REPORT	
RRW	IA AI	.s	RRW	RRW
ALONGSHORE AREAS (Nautica	l Chart Data)			
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
RRW	RF	1.70	RRW	RRW
16. AIDS TO NAVIGATION	17. LANDMARK		18. OTHER ALONGSHORE	19. OTHER ALONGSHORE CULTURAL FEATURES
			PHYSICAL FEATURES	CULTURAL FEATURES
RRW	RF	₹W	RRW	RRW
PHYSICAL FEATURES	,			
20. WATER FEATURES		21. NATURAL	SROUND COVER	22. PLANETABLE CONTOURS
RRW			NA	NA
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
NA	N.A		NA.	RRW
CULTURAL FEATURES	**			
27. ROADS	28. BUILDINGS	·	29. RAILROADS	30. OTHER CULTURAL FEATURES
RRW	RF	₹W	RRW	RRW
BOUNDARIES 31. BOUNDARY LINES			32, PUBLIC LAND LINES	
	IA.			NA
MISCELLANEOUS	<u> </u>		1	IVA
33. GEOGRAPHIC NAMES		34, JUNCTIONS		35. LEGIBILITY OF THE MANUSCRIPT
RRW			RRW	RRW
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION	39. FORMS
	.]		PHOTOGRAPHS	
RRW 40. REVIEWER	RF	₹W	RRW	RRW
Richard R. G.	11:4		SUPERVISOR, REVIEW SECTION	on or unit
Richard R. White		2/74	Albert C. Rauck, J	men. J.
41. REMARKS (See attached she	et)			<u>- · </u>
FIELD COMPLETION ADDITION	NS AND CORREC	·		
42. Additions and corrections script is now complete ex	s furnished by the	e field completi der item 43.	ion survey have been applied t	o the manuscript. The manu-
COMPILER J. R. Min		4/75	SUPERVISOR C	auch l
Reviewer A. L. Sha	nds .	5/75	Albert C. Rauck, J	r.
43. REMARKS Q. J. SA	ands		<del> </del>	
Refer to For	m 76-36C's,	Item 8.		
			•	

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 werecorded 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. Meicer

R.W. Mercer ENS, NOAA

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

FIELD EDIT REPORT

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

ENŠ, 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

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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 Michael H. Fleming

CDR, NOAA

Approved by,

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.

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HYDROGRAPHIC PARTY

GEODETIC PARTY

PHOTO FIELD PARTY

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FINAL REVIEWER

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NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 78-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.



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NOAA FORM 75-40 (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. COMPARISON 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" westward.

#### 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. I. Shands

A. L. Shands Final Reviewer

Approved for forwarding:

allert C. Rauch Jr. Fea.

Jeffrey G. Carlen

Chief, Coastal Mapping Division, AMC

Approved:

Chief, Photogrammetrice 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.

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CHART	DATE	CARTOGRAPHER	REMARKS
18453	9/9/81	R.a. Lillis	Full Part Before After Verification Review Inspection Signed Via
<u> </u>		9-30-81 RCS	Drawing No.
18448	9/15/81	R.a. Lillia	Full Part Before After Verification Review Inspection Signed Via
		9-30-8/RCS	Drawing No. 3/
18445	9/10/81	Qa Lilli	Full Pair Before After Verification Review Inspection Signed Via
CÉB	1/10/21	9.30.81-ROX	Drawing No. /8
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