TP-00731 ORIGINAL

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey	Shoreli	ne
Job NoCM-	7.31.1	мар No. ТР-00731
Classification No.	Final	Edition No
Fie	∍ld Edit	ed Map
	LOCALIT	Υ
State Wash	nington	
General Locality	Tacoma	Harbor
19	73 TO	1974
REGIS	TRY IN AF	RCHIVES
DATE	• • • • • • • • • • • • • • • • • • • •	<i></i>

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

RCS 18 45-3-9-30-81 RL RCS 18 445-50-9-30-81-RL RCS 18 448 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-00731
	■ ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS Final
	REVISED	лов рус <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	
	1 = 1	SURVEY DATES:
Jeffrey G. Carlen. Cdr., NOAA	REVISED	19TO 19
I. INSTRUCTIONS DATED	<u></u>	· · · · · · · · · · · · · · · · · · ·
1. OFFICE	2.	FIELD
Aerotriangulation Aug 30, 1973 Compilation Jan 22, 1974	May 17, 197	⁷ 8
II. DATUMS		
III JA CMJ	OTHER (Specify)	
1. HORIZONTAL: [1927 NORTH AMERICAN		
MEAN HIGH-WATER MEAN LOW-WATER MEAN LOWER LOW-WATER MEAN SEA LEVEL	OTHER (Specify)	
3. MAP PROJECTION	<u> </u>	
3. MAP PROVIDENT	<u></u>	GRID(S)
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5. SCALE	Washington	South
1:5,000	Jan 12	20112
III. HISTORY OF OFFICE OPERATIONS		
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		
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	R. R. White	2/74
COMPILATION CHECKED BY	L. O. Neterer	2/74
INSTRUMENT: Wild B-8 CONTOURS BY	NA	
SCALE: 1:7,500 CHECKED BY	NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	G. R. Vanderha	aven 2/74
CHECKED BY	R. R. White	2/74
	NA NA	~/ '*
METHOD: Smooth Draft CHECKED BY	NA NA	
	G. R. Vanderha	aven 2/74
SCALE: I-D, UUU	R. R. White	2/74
CHECKED BY 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	R. R. White	2/74
	J. R. Minton	4/75
6. APPLICATION OF FIELD EDIT DATA	A. L. Shands	5/75
7 COMPILATION SECTION REVIEW	A. C. Rauck,	
7. COMPILATION SECTION REVIEW BY 8. FINAL REVIEW BY		
	A. L. Shands	Jan. 19
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	A. L. Shands	Mar 19
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	J. B. Phillip	A -
THE WAY PROPERTY OF STATE SOUTH BY	R.T. Cator	May 1978



NOAA FORM 76-36 A

NOAA FORM 76-36B			NATIO	NAL OCEA				OF COMMERC
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B. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)	
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1 Form 152	

FIELD INSPECTION (DPERATION X FIEL	D EDIT OPERATION		
	OPERATION	NAI	ME	DATE
. CHIEF OF FIELD PARTY	4	M. Flem	ing	3/74 - 4/7
	RECOVERED BY	None		
. HORIZONTAL CONTROL	ESTABLISHED BY	None	<u> </u>	
	PRE-MARKED OR IDENTIFIED BY	None		
	RECOVERED BY	NA	· · ·	
. VERTICAL CONTROL	ESTABLISHED BY	NA		·
·	PRE-MARKED OR IDENTIFIED BY	NA		
	RECOVERED (Triangulation Stations) BY	None		
LANDMARKS AND	LOCATED (Field Methods) BY	<u>None</u>		
AIDS TO NAVIGATION	IDENTIFIED BY	None		
	TYPE OF INVESTIGATION			}
GEOGRAPHIC NAMES	COMPLETE BY		•	
INVESTIGATION	SPECIFIC NAMES ONLY			
	NO INVESTIGATION			
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. SUPPLEMENTAL MAPS A	AND PLANS			
None				
	(Sketch books, etc. DO NOT list data submit	<u> </u>		

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FIELD INSPECTION OPERATION	T FIEL	D EDIT OPERATION			
OPERATION			NAME		DATE
. CHIEF OF FIELD PARTY					/=
		M. Fl			12/74
, HORIZONTAL CONTROL	RECOVERED BY	L. Riggers	- D. FITE	ers	
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. SUPPLEMENTAL MAPS AND PLANS					
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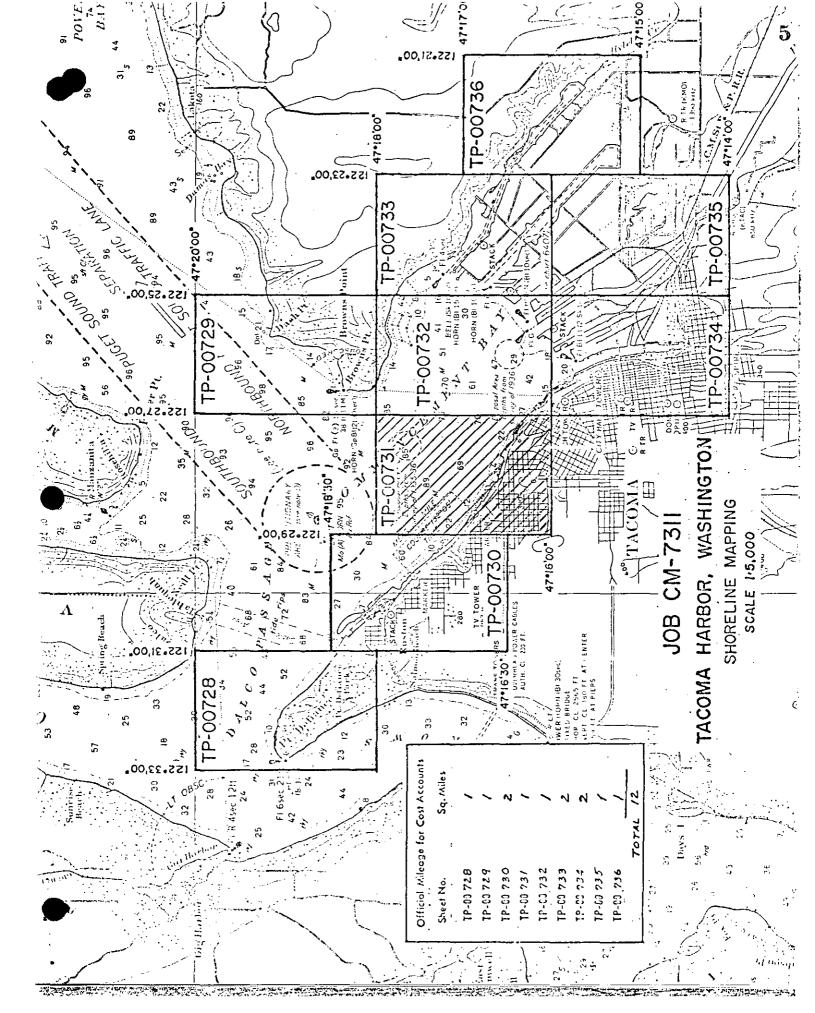
NOAA FORM 76-36D

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

TP-00731

RECORD OF SURVEY USE

I. MANUSCRI	PT COPIES						
	СОМ	PILATION STAGE	\$			DATE MANUSCRI	PT FORWARDED
DA	TA COMPILED	DATE	RE	MARK5		ARINE CHARTS	HYDRO SUPPORT
	tion complete, field edit.	2/74	Class III Super	Manuscrip seded	t	3/74	3/74
	lit applied. tion complete.	4/21/74	Class I Ma	anuscript		5/77	
Final Re	eview	Jan. 1978	Fina	1		Feb. 1978	
	RKS AND AIDS TO NAVIGAT						
1. REPOR	TS TO MARINE CHART DIV	ISION, NAUTICAL	DATA BRANCH				
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	<u> </u>		REMAR	KS	
1		6/16/77	Nautical r	nile marke	rs.	·	
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	PORT TO MARINE CHART						
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EDITION	DATE OF PHOTOGRAPHY	DATE OF FI	ELD EDIT		٦	MAP CLASS	П е



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-00731

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.

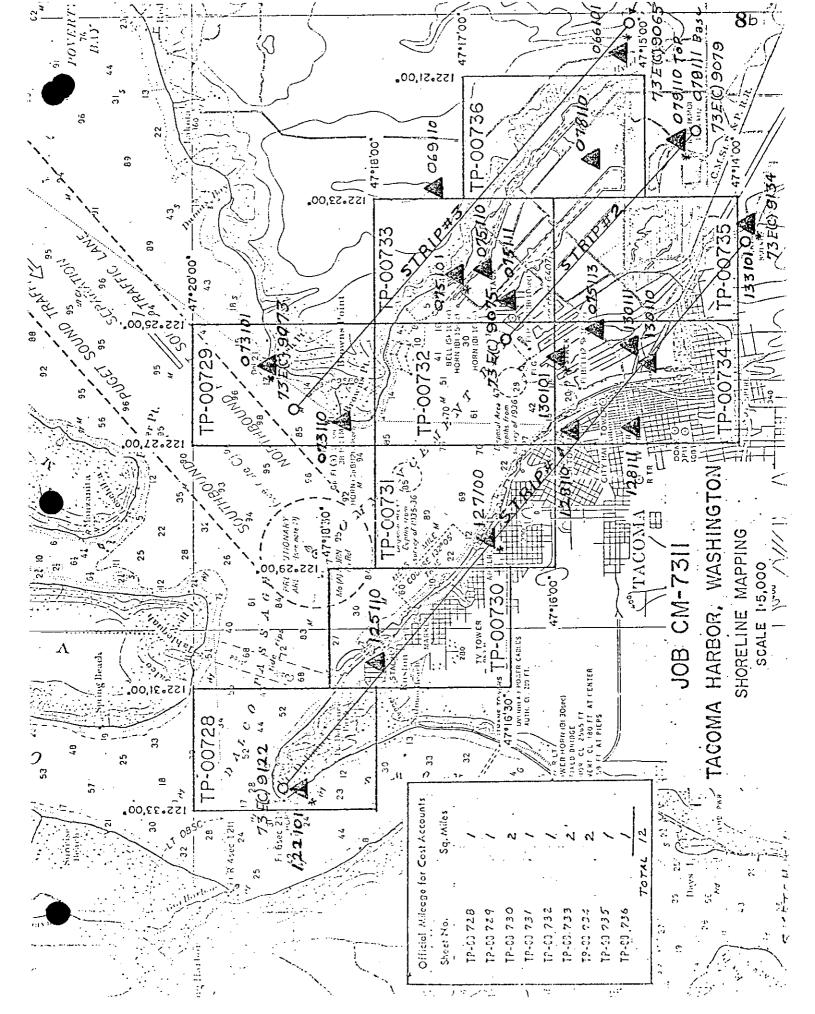
Respectfully submitted,

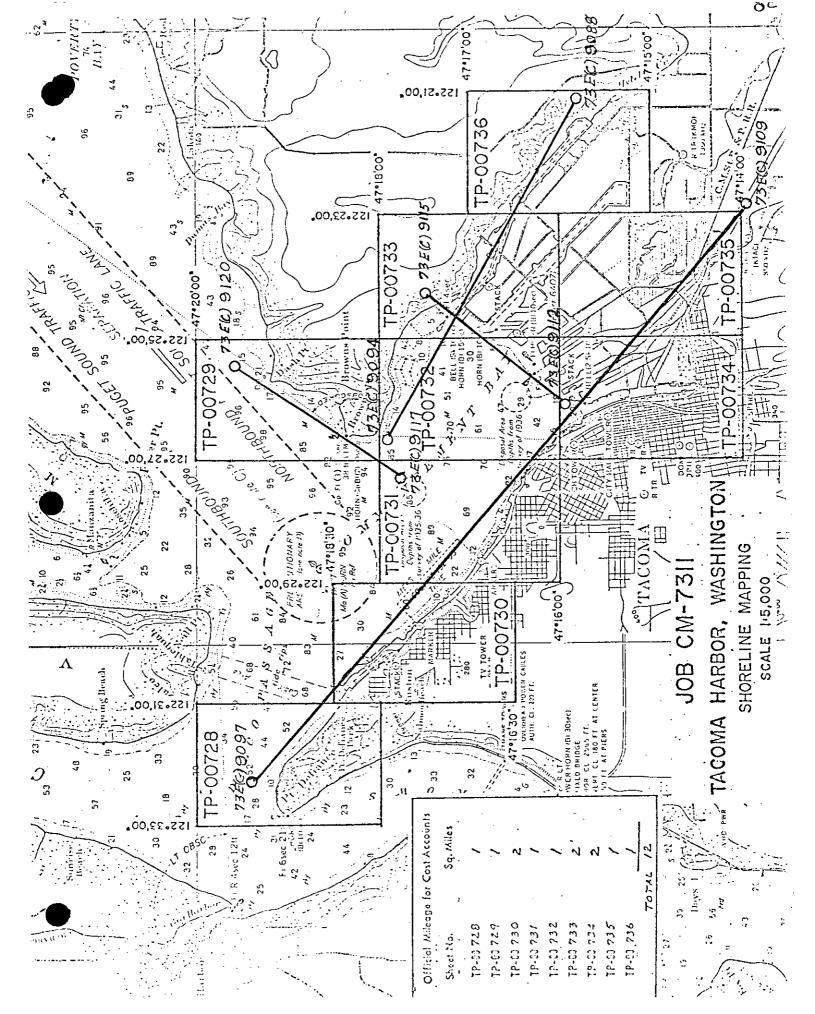
Ive: 0. Raborn

Approved and Porwarded:

John D. Perrow, Jr.

Chief, Aerotriangulation Section





NOAA FORM 76-41				2	U.S. DEPARTMENT OF COMMERCE	DEPARTMENT C	F COMMERCE
		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD			מל אונים ולאו	NOT CK TOINING
MAP NO. TP-00731	JOB NO. CM-7311		GEODETIC DATUM NA	1927	ORIGINATING ACTIVITY COASTAL	ITY Coastal	Mapping
	SOURCE OF	AEROTRI-	COORDINATES IN FEET	GEOGRAPHIC POSITION	•	CHTOT TON	v. 6.111.c
STATION NAME	INFORMATION (Index)	POINT	STATE	• ~ 	LATITUDE LONGITUDE	REMARKS FORWARD	RKS BACK
	G.P. Vol I		χ=	47 ¢	16 52.059	1607.7	(245.2)
	_		y=	λ 122	28 38.771	814.8	(446.2)
olol and	G.P. Vol I		<i>=</i> χ	φ 47	16 44.620	1378.0	(6.747)
\T\T 6501	P. 87		y=	λ 122	28 29.326	616.3	(644.7)
			<i>-</i> χ	Φ.			
			=ĥ	۲			
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			=χ	ф			
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			=χ	ф			
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			<i>y</i> =	γ			
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			y=	۲			
COMPUTED BY A. C. Rauck, Jr.	r.	DATE 2/01/74	COMPUTATION CHECKED BY	F. R. Gusta	Gustafson	DATE 2/01/74	7.4
LISTED BY		DATE	LISTING CHECKED BY			DATE	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY	>		DATE	
		SUPERSEDES NO	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	WHICH IS OBSOLET	J.		9

COMPILATION REPORT

TP-00731

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, using 1:15,000 scale color photography. Photography 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 were delineated using the Wild B-8 stereoplotter and by office interpretation of the photographs.

The mean high water line was delineated from 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.

JUNCTIONS: 39.

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 Quadrangle: TACOMA NORTH, WASHINGTON, scale 1:24,000, dated 1959, photorevised 1968.

COMPARISON WITH NAUTICAL CHARTS: 47.

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

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

albert C. Rauck. J. FOR

Gary R. Vanderhaven

Cartographer

February 26, 1974

Approved for forwarding:

albut c. Ranch Os Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

January 11, 1978

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7311 (Tacoma Harbor, Washington)

TP-00731

Burlington Northern (RR)

Commencement Bay

01d Tacoma

Union Pacific (RR)

Approved by:

Charles E. Harrington Staff Geographer - C51x2

NOAA FORM 75-74 (7-75)				U.S. DEPARTMENT OF COMMERC
	PHO		RIC OFFICE REVIEW - 00731	NATIONAL OCEAN SURVE
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
RRW	RF	LJS	RRW	RRW
CONTROL STATIONS	1		14011	1400
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF	6. RECOVERAE OF LESS TH	LE HORIZONTAL STATIONS AN THIRD-ORDER ACCURAC	7. PHOTO HYDRO STATIONS
RRW		(Topographic	stations) NA	NA
8. BENCH MARKS	9. PLOTTING	FSEXTANT	10. PHOTOGRAMMETRIC	11. DETAIL POINTS
RRW	AI	.S	RRW	RRW
ALONGSHORE AREAS (Nautica				
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
RRW	RF	₹W	RRW	RRW
16. AIDS TO NAVIGATION	17. LANDMARK	Š	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
RRW	AI	is.	RRW	RRW
PHYSICAL FEATURES	*			
20. WATER FEATURES		21. NATURAL	ROUND COVER	22. PLANETABLE CONTOUR
RRW			NA	NA
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
NA	NA.	Ĺ	NA	RRW
CULTURAL FEATURES				
27. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES
RRW	RF	:W	RRW	RRW
BOUNDARIES				
31. BOUNDARY LINES	IΑ		32. PUBLIC LAND LINES	NA
MISCELLANEOUS			L	NA
33. GEOGRAPHIC NAMES		34. JUNCTIONS		35. LEGIBILITY OF THE MANUSCRIPT
RRW			ALS	. DDL
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	RRW 39. FORMS
RRW	RF	W	NA NA	RRW
	White		SUPERVISOR, REVIEW SEC	
Richard R. White	00 /100	2/74	Albert C. Rauck,	uch y
11. REMARKS (See attached she	et)			
FIELD COMPLETION ADDITION	NS AND CORRECT	TIONS TO THE M	ANUSCRIPT	
 Additions and corrections script is now complete ex 	s fuinished by th cept as noted und	e field completi ler item 43.	on survey have been applie	d to the manuscript. The manu-
COMPILER J. Minton	√	4/75	SUPERVISOR	Ranch O.
deviewer A. L. Sha	nds	5/75	Albert C. Rauck,	Jr.
3. REMARKS				
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 wearecorded 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. mercer

R.W. Mercer ENS, NOAA

Approved by,

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

FIELD EDIT REPORT

MAP TP-00731

TACOMA, WASHINGTON

MARCH-APRIL, 1974

Field edit of map TP-00731 was done by Ens. Joseph J. Kapler and Ens. Roger W. Mercer. Inspection was done from small boats and on foot when required.

METHOD

A copy of the Field Edit Ozalid was examined in the field and compared with actual geographic features. Mean High Water Line verification was done by visual comparison with the Ozalid. Several dolphins were located by visual orientation with nearby features; considering the close proximity of reference features, these locations should all be good within ± 2 meters. No positions for the measured mile markers were obtained by field methods; these positions should be available from the Port of Tacoma Property Manager (address appended). Some floats on the manuscript were discovered missing; these will probably be replaced during the summer boating season. Positions of piles were noted where floats were found missing. All times are based upon the 105° W meridian (Zone +7).

ADEQUACY OF COMPILATION

Compilation of this map seems good. Photogrammetrically located objects on manuscript agree well with location by triangulation methods.

RECOMMENDATIONS

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

Submitted by,

Roger W Mercer

Roger W. Meicer

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

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

M HYDROGRAPHIC PARTY
GEODETIC PARTY
M PHOTO FIELD PARTY
X COMPILATION ACTIVITY
FINAL REVIEWER
COART OF THE PARTY
COART OF THE P 6407, 6460 185-SC 6407, 6460 185-SC (See reverse for responsible personnel) 15 AFFECTED 6401 CHARTS 1079 ORIGINATING ACTIVITY COAST PILOT BRANCH F-2-6-L 12/12/74 12/12/74 METHOD AND DATE OF LOCATION (See instructions on reverse side) F-2-6-I FIELD U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION 4/18/75 DATE OFFICE D.P. Meters The following objects HAVE X HAVE NOT been inspected from seaward to determine their value as landmarks OPR PROJECT NO. JOB NUMBER SURVEY NUMBER DATUM 37.94 843 797 Tacoma Harbor LONGITUDE 28 82 1927 NONFLOATING AIDS ORNINGHARKS FOR CHARTS 122 122 0 POSITION LOCALITY D.M. Meters 52.62 51,05 1576 1625 LATITUDE Washington Q 7.7 Show triangulation station names, where applicable, in perentheses) Commencement Bay, Measured Nautical Commencement Bay, Measured Nautical Record reason for deletion of landmark or aid to navigation. Mile Southeast Range, Front Marker STATE Mile Southeast Range, Rear Marker TP-00731 REPORTING UNIT If feld Perry, Ship or Office) Coastal Mapping Div. DESCRIPTION AMC, Norfolk, CM-7311 Replaces C&GS Form 567. X TO BE CHARTED TO BE DELETED TO BE REVISED NOAA FORM 76-40 OPR-412 CHARTING MARKER MARKER





,	RESPONSIBLE PERSONNEL	PERSONNEL	
TYPE OF ACTION	YAKE	īn .	ORIGINATOR
			PHOTO FIEL
DBJECTS INSPECTED FROM SEAWARD			MADROGRAPHIC PARTY
			OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	L. L. Riggers, PMC; D. S.	Eilers, Lt. (jg), NOAA	FIELD ACTIVITY REPRESENTATIVE
	J. R. Minton, Cartographic	o Technician, AMC	OFFICE ACTIVITY REPRESENTATIVE
TORMS ORIGINATED BY QUALITY CONTROL			REVIEWER
CTIVITIES			REPRESENTATIVE
	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE O (Consult Photogrammetric Instructions No. 64,	OR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	
OFFICE IDENTIFIED AND LOCATED OBJECTS	ATED OBJECTS	FIELD (Cont'd) B. Photogrammetric field positions**	ld positions** require
Enter the number and date (including month, day, and year) of the photograph used to	(including month, tograph used to	entry of date of f	÷ e ÷;
EXAMPLE: 75E(C)6042 8-12-75		EXAMPLE: P-8-V 8-12-75 74L(C)2982	e or identify the object.
EW POSITION DETERMINED nter the applicable day - Field P - Located Vis	OR VERIFIED ta by symbols as follows: Photogrammetric - Visually	ATION STATI andmark or on station th date of	ON RECOVERED aid which is also a tri-is recovered, enter 'Triang.
i - Triangulation 5 - F 2 - Traverse 6 - T	Field identified Theodolite	8-12-75	•
1 1	Planetable Sextant	£ <	UALLY ON PHOTOGRAPH
A. Field positions* requi	require entry of method of of field work.	EXAMPLE: V-Vis. 8-12-75	
		**PHOTOGRAMMETRIC FIELD POSITIONS entirely, or in part, upon cont	POSITIONS are dependent upon control established
vations based entirely upon ground survey methods.	are determined by field obser- ntirely upon ground survey methods.	by photogrammetric methods.	as.

(

NOAA FORM 76-40 (8-74)

REVIEW REPORT

TP-00731

SHORELINE

January 17, 1978

61. GENERAL STATEMENT:

See Summary, page 6 of this descriptive report.

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 \$moothsheet H-9412 (DA-5-3-74). There are no discrepancies.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 18453, 1:15,000 scale, 14th edition, dated May 29, 1976. There are several piles shown on the chart that are not visible on the photographs and were not located by the field editor or hydrographer. A marine railway charted at lat. 47° 16.7, long. 122° 28.0 is also not visible on the photographs and was not located by the field editor.

The word "Boom" appears on the chart at lat. 47° 16.7, long. 122° 28.8°. However, no boom is symbolized at that location. The three small buildings southeast of there do not appear on the photographs. Other buildings shown on the chart are visible on the photographs and are adequately represented on the chart.

ADEQUACY OF RESULTS AND FUTURE SURVEYS: 66.

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

Submitted by

A.L. Shands Final Reviewer

Approved for forwarding

Jeffrey G. Carlen, CDR

Chief, Coastal Mapping Division, AMC

Approved by

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00131

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.

 -			recommendations made under "Comparison with Charts" in the Revie
CHART	DATE	CARTOGRAPHER	REMARKS
18453	9/9/81	R. q. Lillis	Full Part Before After Verification Review Inspection Signed Via
		9-30-81 ROG	Drawing No. 24
18448	9/15/81	RO Lilli	Full Part Before After Verification Review Inspection Signed Via
		9-30-81 Ras	Drawing No. 3/
	- / / :	10 0 J. 111.	Full Part Before After Verification Review Inspection Signed Via
18445 C4B	9/10/81	9-30-81-PN	Drawing No. 18
Lab		1 30 01-09.	
			Full Part Before After Verification Review Inspection Signed Via
	<u> </u>		Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
		•	Drawing No.
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			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Diawing No.
			Full Part Before After Verification Review Inspection Signed Via
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			Drawing No.
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