

TP-01248

TP-01248

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
<h2 style="text-align: center;">DESCRIPTIVE REPORT</h2>	
THIS MAP EDITION WILL NOT BE FIELD EDITED	
<i>Map No.</i> TP-01248	<i>Edition No.</i> 1
<i>Job No.</i> CM-8305	
<i>Map Classification</i> CLASS III (FINAL)	
<i>Type of Survey</i> SHORELINE	
<h3 style="text-align: center;">LOCALITY</h3>	
<i>State</i> CALIFORNIA	
<i>General Locality</i> CARQUINEZ STRAIT AND SOUTHERN SUISUN BAY	
<i>Locality</i> BENICIA	
<div style="border: 1px solid black; padding: 5px; text-align: center;">           19 83 TO 19         </div>	
<h3 style="text-align: center;">REGISTERED IN ARCHIVES</h3>	
<i>DATE</i>	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
<b>DESCRIPTIVE REPORT - DATA RECORD</b>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Atlantic Marine Center Norfolk, VA		SURVEY TP-01248  MAP EDITION NO. (1)  MAP CLASS III (FINAL)  JOB <b>PH-CM-8305</b>	
OFFICER-IN-CHARGE  A.Y. Bryson, CDR		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED  JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__	
<b>I. INSTRUCTIONS DATED</b>			
1. OFFICE		2. FIELD	
Aerotriangulation      November 1, 1984 Compilation              October 2, 1986		Control                      March 9, 1983 Change No. 1              March 16, 1983	
<b>II. DATUMS</b>			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)	
3. MAP PROJECTION  Lambert Conformal		4. GRID(S) STATE                      ZONE California                  3	
5. SCALE 1:10,000		STATE                      ZONE	
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY		V. McNeel NA	Nov. 1984
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Calcomp 718</u> CHECKED BY		V. McNeel D. Norman	Nov. 1984 Nov. 1984
3. STEREOSCOPIC INSTRUMENT COMPILATION PLANIMETRY BY INSTRUMENT: <u>Wild B-8</u> CHECKED BY SCALE: <u>1:10,000</u> CHECKED BY		M. Burns R. Kravitz NA NA	Dec. 1986 Dec. 1986
4. MANUSCRIPT DELINEATION PLANIMETRY BY METHOD: <u>Smooth drafted</u> CHECKED BY SCALE: <u>1:10,000</u> CHECKED BY HYDRO SUPPORT DATA BY		M. Burns F. Mauldin NA NA M. Burns F. Mauldin	Jan. 1987 Mar. 1987
5. OFFICE INSPECTION PRIOR TO <del>FIELD</del> <u>Final review</u> BY		F. Mauldin	Mar. 1987
6. APPLICATION OF FIELD EDIT DATA BY		NA	
7. COMPILATION SECTION REVIEW <u>Class III</u> BY		F. Mauldin	Mar. 1987
8. FINAL REVIEW <u>Class III</u> BY		J. Hancock	June 1987
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		J. Hancock	July 1987
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		P. Domesey	Sept. 1987
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		J. RIBBON	Oct. 1987

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 10(C), (C=88.46mm)		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Pacific	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 120th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
83C(C) 0919-0922 *	Nov. 25, 1983	10:49	1:30,000	1.9 Ft. below MHW	
83C(C) 0951-0952 *	Nov. 25, 1983	11:08	1:30,000	1.9 Ft. below MHW	
83C(I) 0991-0992	Nov. 26, 1983	10:18	1:30,000	1.6 Ft. below MHW	
83C(I) 1009-1010	Nov. 26, 1983	10:38	1:30,000	1.7 Ft. below MHW	
83C(I) 1037-1038	Nov. 26, 1983	10:55	1:30,000	1.8 Ft. below MHW	
				Mean Tide Range = 5.4 Ft.	
84C(I) 2212-2213	Mar. 22, 1984	10:29	1:30,000	0.2 Ft. above MLLW	
84C(I) 2220-2221	Mar. 22, 1984	10:44	1:30,000	0.1 Ft. above MLLW	
				Mean Tide Range = 4.6 Ft.	

REMARKS \* Bridging / Compilation photographs.  
Stage of tide for all photographs is based on predicted tide data from  
Benicia, Army Point gage.

## 2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from office interpretation of the above listed compilation / bridging color photographs using stereo instrument methods.

## 3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

There was no mean lower low water line compiled on this project.

## 4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

## 5. FINAL JUNCTIONS

NORTH *	EAST *	SOUTH *	WEST *
	TP-01249		TP-01247

REMARKS  
This manuscript falls within the limits of project CM-7823, sheet TP-01057, scale 1:20,000.

TP-01248

## HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION (Premarking) ☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	Mar.-May 1983
2. HORIZONTAL CONTROL	RECOVERED BY R. Melby ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY R. Melby	May 1983
3. VERTICAL CONTROL	RECOVERED BY NA ESTABLISHED BY NA PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY NA LOCATED (Field Methods) BY NA IDENTIFIED BY NA	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
832(C)0919 *	Exxon Refinery Stack, 1917  * Refer to Photogrammetric Plot Report, Item #23		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

1 Project Field Report

TP-01248  
RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	March 1987	Class III Manuscript	None	May 1987
Final Review	June 1987	Final Class III Map	Aug. 1987	July 1987

## II. LANDMARKS AND AIDS TO NAVIGATION

N/A

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
			Not required for project

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

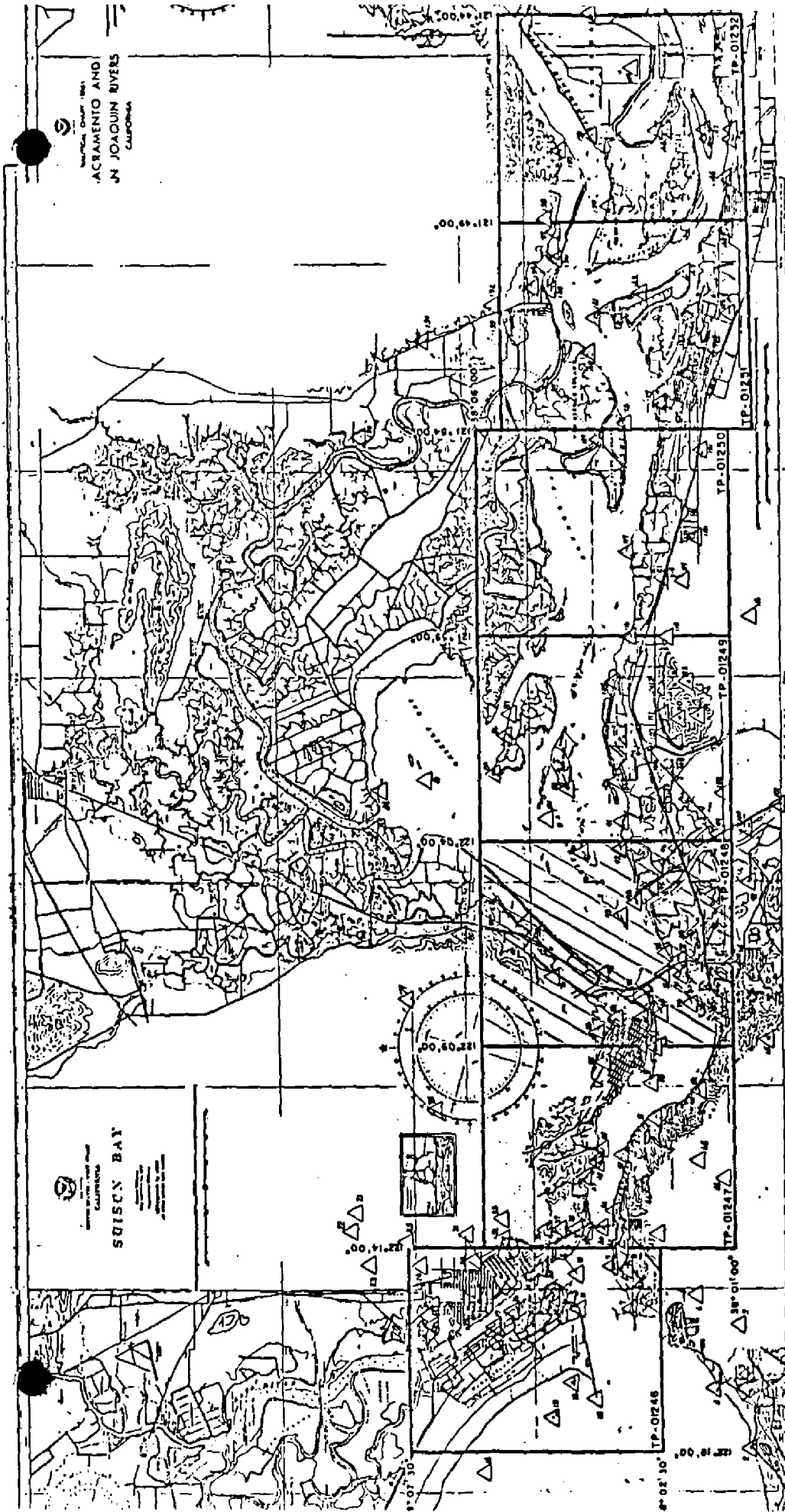
## III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.  
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.  
3. ☐ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.  
ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: \_\_\_\_\_

## IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-01248

This final Class III shoreline map is one of seven 1:10,000 scale maps (TP-01246 through TP-01252) that comprise project CM-8305, Carquinez Strait and Southern Suisun Bay, California.

The purpose of this map is to provide current charting information for nautical chart maintenance and to furnish support data for scheduled hydrographic activity.

This map portrays the shoreline at the entrance to Suisun Bay.

Field work prior to compilation consisted of the recovery, establishment and identification, by premarking methods, of horizontal control necessary for aerotriangulation. This activity was accomplished in March 1983, just prior to aerial photography. One supplemental photo substitute point was also provided in April 1983 after the original photo mission was completed.

Photo coverage for the project was provided in three stages. The original color bridging photographs were furnished March 15 and 31, 1983 with the Wild RC 10(2) camera. However, flooded conditions did not permit this premarked photography to be bridged. Consequently, color photographs for bridging/compilation and supplemental black-and-white infrared photographs for interpretation assistance were obtained in November 1983 with the Wild RC 10(C) camera. Using the same "C" camera, additional supplemental black-and-white infrared photographs were provided in March 1984 to complement the interpretation of detail. All project photographs were taken at 1:30,000 scale. The appropriate tide stage for each flight line was determined from predicted tide data.

Analytic aerotriangulation was adequately provided by the Washington Science Center in November 1984. Flooded conditions observed on the original bridging photographs required the transferring of the premarked horizontal control stations to the re flown bridging photographs. Refer to the Photogrammetric Plot Report attached with this Descriptive Report.

Compilation, based upon office interpretation of the color photographs, was performed at the Coastal Mapping Unit, Atlantic Marine Center in March 1987. Interpretation of detail was complemented by using the infrared photographs. A detailed comparison was made with a registered map copy of TP-01057 from previous shoreline project CM-7823, compiled in 1981.

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Final review for this Class III map was performed at the Atlantic Marine Center in June 1987. A Chart Maintenance Print and a Notes to Hydrographer Print were prepared and forwarded to their appropriate units.

The Descriptive Report describes all pertinent information used in map production. The original base manuscript and related data were forwarded to the Washington Science Center for registration.



FIELD INSPECTION

TP-01248

There was no field inspection prior to compilation. Field work accomplished consisted of aerial photography and the recovery, establishment and identification (premarking) of horizontal control necessary for aerotriangulation.



U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Ocean Service  
Pacific Marine Center  
1801 Fairview Avenue East  
Seattle, Washington 98102

May 5, 1983

N/MOP222/RBM

TO: N/CG2313 - Howard D. Wolfe  
FROM: *Robert B. Melby*  
N/MOP222 - Robert B. Melby  
SUBJECT: Photo Field Operations Report; Job CM-8305, Carquinez Strait and Southern Suisun Bay, California

This report covers the area of Carquinez Strait and Southern Suisun Bay, California. The project was assigned to the Pacific Photo Party, Seattle, Washington, to place air photo targets on selected horizontal control stations to control aerotriangulation of the aerial photography.

A white, plastic panel was placed in each of the preselected areas. The panels were secured by lath and stakes. Distances and directions were determined in the field to permit the determination of the coordinates of each center panel. In preselected area #3, station NADEEN 1955 was paneled by the sub.pt. method. When the paneling material was removed later, the center panel was found to be badly torn by cattle. The panel may have been in good condition when the photography was flown. If the photo-image of the center panel is questionable, an alternate photo-identifiable object was selected, and the distance and azimuth was determined to it as a back-up point.

In area #6, the panel is listed as SHERMAN 1931 SUB PT B. Sub pt A, utilizing the same horizontal control station, is a paneled sub.pt. in adjoining Project CM-8304.

No additional horizontal control was established or required.

The paneled station field data has been entered on a Form 76-53, Control Station Identification.

No particular problems were encountered except for unseasonably heavy rains and high water that effected the logistics to a minor degree.



PHOTOGRAMMETRIC PLOT REPORT  
CM-8305

CARQUINEZ STRAIT AND SOUTHERN SUISUN BAY, CALIFORNIA

NOVEMBER 1984

21. AREA COVERED

This report covers the area of Carquinez Strait and Southern Suisun Bay, California. The project consists of seven 1:10,000-scale sheets; TP-01246 through TP-01252.

22. METHOD

Four strips of 1:30,000-scale color photographs were bridged by analytic aerotriangulation methods.

The measurements were made using the National Ocean Service Analytic Plotter (NOSAP) under control of the STK simulation program.

Tie points were used to ensure adequate junction of all strips and, in addition, were used as supplemental control for strip #30-2A and strip #30-2B.

Ratio values were determined for the 1:30,000 bridging photographs and for the 1:30,000 MLLW and MHW infrared photographs. A copy of these values and sketches of the photo coverage are attached to this report.

Base sheets were plotted on the Calcomp 718 plotter using the Lambert Conformal State Plane Coordinate System, California Zone 3.

23. ADEQUACY OF CONTROL

The control was adequate. Horizontal control stations were premarked for "Z" camera photographs which were flown on March 15 and March 31, 1983. These photographs were not used for bridging because they were taken under flooded conditions. The positions of the premarked stations were transferred, using PUG methods, to "C" camera color bridging photographs which were flown on November 25, 1983.

Two stations, CT 74 USN 1954 Sub. Point and Sherman 1931 Sub. Point could not be successfully transferred. Landmarks and fixed aids to navigation were used as control in these areas as well as supplemental control in other areas of the project.

A listing of closures to control is attached.

24. SUPPLEMENTAL DATA

USGS topographic quadrangles were used to obtain vertical control for bridging. NOS nautical charts were used to locate aids and landmarks.

25. PHOTOGRAPHY

The coverage, overlap, and quality of the photographs were adequate for the job.

Submitted by:



Vic McNeel

Approved and Forwarded:



Don O. Norman  
Chief, Aerotriangulation Unit

FIT TO CONTROL

▲ = Transferred paneled stations held in adjustment

● = Other positions used as control

■ = Tie points used as control

STRIP #30-1

	<u>STATION NAMES</u>	<u>POINT NO.</u>	<u>VALUES IN FEET</u>	
			<u>X</u>	<u>Y</u>
▲ 1.	Amsco 1949, Sub Point	916101	-2.9	+2.0
	Mare Island Strait Light 1	967150	-0.8	+0.5
	Mare Island Strait Light 2	967151	+1.1	+1.9
	Nadeen 1955, Sub Point Panel	917101	+1.2	-3.3
	Nadeen 1955, Sub Point Alt.	917102	+0.4	-0.1
● 2.	Carquinez Strait Light 20	969150	+0.7	-1.2
	Carquinez Strait Light 22	969151	-1.8	+1.4
	Carquinez Strait Light 23	970150	-0.1	-0.7
● 3.	Exxon Refinery Stack, 1977	953141	+3.8	-1.6
● 4.	Nichols Allied Chem. Tank	924140	-0.5	-3.5
	Pittsburg Shell Chemical Co. Water Tank, 1932	925140	-0.6	+0.4
	Pittsburg, Stockton Firebrick Co. Water Tank, 1932	926140	-2.1	+0.1
● 5.	Pittsburg, Johns Manville Co. Water Tank	927140	-1.0	+2.9
	Pittsburg, Columbia Steel Co. Canal Tank, 1950, Sub Point	928101	-0.8	+6.2
● 6.	Pittsburg, Columbia Steel Co. Canal Tank 1950	928100	-1.8	+3.0
	Pittsburg, Columbia Steel Co. River Water Tank, 1950	928141	-0.4	+1.4
	San Joaquin River Lt. 19	932151	-1.2	-4.2
● 7.	San Joaquin River Lt. 23	933150	+1.7	-1.6
	San Joaquin River Lt. 24	933151	+1.0	-0.3

STRIP #30-2A

●	San Joaquin River Lt. 24	933151	+1.9	+1.0
● 8.	San Joaquin River Lt. 25	939150	+2.2	+1.4
	San Joaquin River Lt. 26	939151	-1.1	+0.6
● 9.	San Joaquin River Lt. 29	939154	-1.8	-0.7
	Tie From Strip #30-1	933801	+2.3	-2.9
■ 10.	Tie From Strip #30-1	933802	+0.8	-2.3
	Tie From Strip #30-1	933803	+1.6	-2.1
	Sacramento River Deep Water Ship Channel Lt. 15	940150	-3.0	-0.9
● 11.	Sacramento River Deep Water Ship Channel Lt. 17	940151	-4.1	+0.1
	Tie From Strip #30-1	930801	+6.4	-3.1
■ 12.	Tie From Strip #30-1	930802	+4.6	-0.2
	Tie From Strip #30-1	930803	+4.4	-1.0
	Tie From Strip #30-1	926801	-1.6	+0.3
	Tie From Strip #30-1	926802	-0.3	+1.0
■ 13.	Tie From Strip #30-1	926803	-1.0	+1.2
	Tie From Strip #30-1	924801	-0.8	+4.8
	Tie From Strip #30-1	924802	-3.2	+1.8
■ 14.	Tie From Strip #30-1	924803	-1.7	+3.1
	Tie From Strip #30-1	922801	+0.1	-0.2
	Tie From Strip #30-1	922802	0.0	+0.3
■ 15.	Tie From Strip #30-1	922803	+1.0	-2.6
	Tie From Strip #30-1	922804	+2.5	-0.7
	Tie From Strip #30-1	922805	+2.2	-3.3
	Tie From Strip #30-1	922806	-0.4	-4.0

STRIP #30-2B

	Tie From Strip #30-1	920801	-2.1	-1.4
	Tie From Strip #30-1	920802	-2.8	-0.2
	Tie From Strip #30-1	920803	-4.1	-5.1
● 16.	Green House, West Gable, 1939	952110	+0.6	+0.7
■ 17.	Tie From Strip #30-1	919801	-0.7	-2.0
	Tie From Strip #30-1	919802	-1.2	-0.3
	Tie From Strip #30-1	919803	-1.6	-2.0
	Tie From Strip #30-1	919804	+0.6	-1.9

18.	Tie From Strip #30-1	920801	-1.9	-0.8
	Tie From Strip #30-1	920802	-2.4	+1.1
	Tie From Strip #30-1	920803	-3.7	-3.3
● 3.	Exxon Refinery Stack, 1977	953141	+2.1	+2.6
<u>STRIP #30-3</u>				
▲ 19.	Long Pond 2 RM3 Panel	964101	+0.4	0.0
	Vallejo Park Circle Tank	966141	+6.6	+2.4
● 20.	Mare Island USN Stack	966140	-2.2	0.0
	Carquinez Strait, Range Target No. 1, 1932	966150	+2.6	+1.0
	Carquinez Strait, Range Target No. 2, 1932	966151	+0.8	+1.9
▲ 1.	Amsco 1949, Sub Point	916101	-1.4	+2.1
	Tie From Strip #30-1	916801	+0.5	-2.6
	Tie From Strip #30-1	916802	+1.4	-1.3
	Tie From Strip #30-1	916803	+0.7	-2.1
	Mare Island Strait Lt. 1	967150	+1.9	-3.1
▲ 21.	Mare Island Strait Lt. 2	967151	+2.8	-0.9
▲ 2.	Carquinez Strait Lt. 20	969150	+0.5	-1.6
▲ 22.	Nadeen 1955, Sub Pt. Panel	917101	+0.6	-0.3
	Nadeen 1955, Sub Pt. Alt.	917102	+0.5	-1.6
	Carquinez Strait Lt. 22	969151	-1.6	+1.2
●	Carquinez Strait Lt. 23	970150	-0.7	+0.8

## RATIO VALUES

CM-8305

1:30,000 Bridging Photographs

	<u>Ratio Value</u>
83-C(C) 915-933	3.125
938-950	3.124
951-953	3.128
964-965	3.120
966-967	3.127
968	3.142
969	3.036
970	3.072

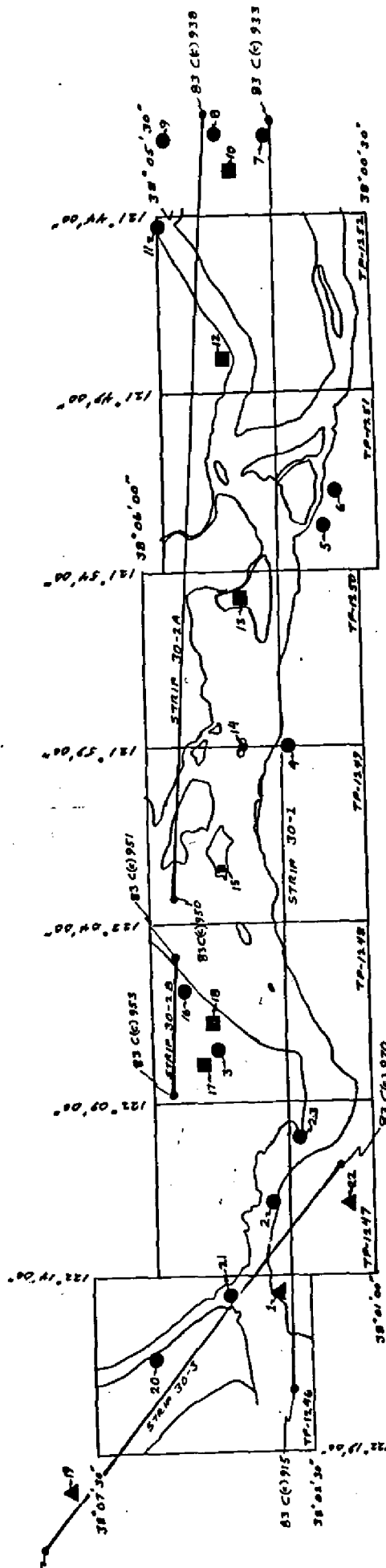
MLLW 1:30,000 Black-and-White Infrared

	<u>Ratio Value</u>
84-C(R) 2207-2213	3.04
2220-2229	3.02
2235-2245	3.04
2251-2261	3.04

MHW 1:30,000 Black-and-White Infrared

	<u>Ratio Value</u>
83-C(R) 986-992	2.97
999-1006	2.98
1009-1020	2.97
1026-1038	2.96





# BRIDGING PHOTOGRAPHS

1:30,000 SCALE

HORIZONTAL CONTROL HELD:

▲ = PRIMARY STATIONS

● = OTHER POSITIONS

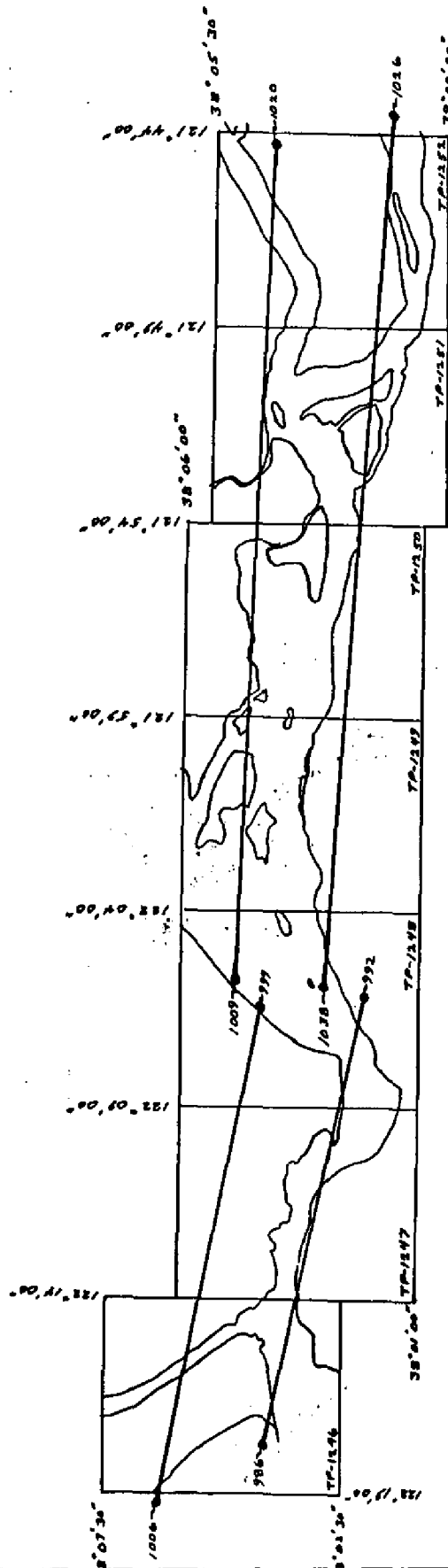
■ = THE POINTS USED AS CONTROL

## JOB CM-8305 CARQUINEZ STRAIT AND SOUTHERN SUISUN BAY

CALIFORNIA

SHORELINE MAPPING

SCALE=1:10,000



MHW BLACK AND WHITE INPAIRED PHOTOGRAPHS  
83 C (R) 1:30,000 SCALE

JOB CM-8305  
CARQUINEZ STRAIT AND SOUTHERN SUISUN BAY  
CALIFORNIA  
SHORELINE MAPPING  
SCALE=1:10,000





## COMPILATION REPORT

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31. DELINEATION:

Delineation was accomplished using Wild B-8 stereo instrument compilation methods. Instrument compilation was used to delineate shoreline, alongshore, and interior detail based upon office interpretation of the 1:30,000 scale 1983 bridging/compilation color photographs.

Tide coordinated infrared ratio photographs dated 1983 for mean high water and 1984 for mean lower low water, were used to assist in interpretation of the shoreline and offshore details.

All photographs used to compile this map are listed on NOAA form 76-36B. Photograph coverage and quality were adequate.

32. CONTROL:

The horizontal control was adequate. Refer to the Photogrammetric Plot Report, dated November 1984.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line was compiled from office interpretation of the bridging/compilation photographs as described in item #31. There was no mean lower low water line compiled on this map.

36. OFFSHORE DETAILS:

Offshore detail was compiled by instrument methods as described in item #31.

37. LANDMARKS AND AIDS:

The investigation and mapping of charted landmarks and aids to navigation are not required. These features were previously investigated on project CM-7823, TP-01057, at a scale of 1:20,000.

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38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Refer to the Data Record Form 76-36B, item 5, of the Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY:

See item #32.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with the following:

U.S.G.S. Quadrangle, Benicia, California; dated 1959, photorevised 1980; scale 1:24,000

U.S.G.S. Quadrangle, Port Chicago, California; dated 1959, photorevised 1968; scale 1:24,000

Class III Shoreline Map, TP-01057; CM-7823; scale 1:20,000

47. COMPARISON WITH NAUTICAL CHARTS:

An comparison was made with the following National Ocean Service Charts:

18657; 12th edition; dated November 24, 1984; scale 1:10,000

18658; 23rd edition; dated April 6, 1985; scale 1:10,000

18656; 46th edition; dated January 19, 1985; scale 1:40,000

18652; 24th edition; dated September 14, 1985; scale 1:40,000 and 1:80,000 SC

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

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ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

*J. Burns, Jr.*

Michael T. Burns  
Cartographic Technician  
January 13, 1987

Approved:

*James L. Byrd, Jr.*

James L. Byrd, Jr.  
Chief, Coastal Mapping Unit

APR 30  
1987

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8305 (Carquinez Strait and Suisun Bay, CA)

TP-01248

Army Point

Avon

Bahia

Benicia

Bulls Head Point

Carquinez Strait

Edith, Point

Goodyear Slough

Martinez

Mococo

Pacheco Creek

Peyton

Port of Benicia

Southern Pacific (RR)

Suisun Bay

Suisun Point

Benicia-Martinez Bridge *JEH*

Approved:

*Charles E. Harrington*

Charles E. Harrington  
Chief Geographer  
Nautical Charting Division  
Charting and Geodetic Services



REVIEW REPORT  
SHORELINE

TP-01248

61. GENERAL STATEMENT:

Final review for this final Class III map was accomplished at the Atlantic Marine Center in June 1987. For a schedule of the office and field operations, refer to the Summary included with this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with a registered copy of Class III Map TP-01057, CM-7823, 1:20,000 scale.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with the following U.S.G.S. Quadrangles:

Benicia, California; dated 1959, photo revised 1980, scale  
1:24,000,

Port Chicago, California; dated 1959, photo revised 1968, scale  
1:24,000.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic survey was performed prior to map compilation.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following NOS charts:

18657, 12th edition, Nov. 24, 1984, scale 1:10,000

18658, 23rd edition, April 6, 1985, scale 1:10,000

18656, 46th edition, Jan. 19, 1985, scale 1:40,000

18652, 24th edition, Sep. 14, 1985, scale 1:40,000

and 1:80,000 SC

TP-01248

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the Project Instructions, and meets the requirements for National Standards of Map Accuracy.

Submitted by:

*Jerry L. Hancock*  
Jerry L. Hancock  
Final Reviewer

Approved for forwarding:

*Billy H. Barnes*  
Billy H. Barnes  
Chief, Photogrammetric Section, AMC

Approved:

*Larry O. Robson*  
Chief, Photogrammetric Production Sec.

*G. V. Bryson*  
Chief, Photogrammetry Branch

