

TP-01249

TP-01249

NOAA FORM 76-35
(6-80)

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

DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT BE FIELD EDITED

Map No.
TP-01249

Edition No.
1

Job No.
CM-8305

Map Classification
CLASS III (FINAL)

Type of Survey
SHORELINE

LOCALITY

State
CALIFORNIA

General Locality
CARQUINEZ STRAIT AND SOUTHERN SUISUN BAY

Locality
RYER ISLAND

19₈₃ TO 19

REGISTERED IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72) <div style="text-align: center; margin-top: 5px;"> U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN. </div> <div style="text-align: center; margin-top: 20px;"> DESCRIPTIVE REPORT - DATA RECORD </div>		<div style="border-bottom: 1px solid black; padding-bottom: 5px;"> TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED </div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;"> SURVEY TP-01249 MAP EDITION NO. 1 MAP CLASS III (FINAL) JOB WH-CM-8305 </div>					
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Atlantic Marine Center, Norfolk, VA		<div style="border-bottom: 1px solid black; padding-bottom: 5px;"> LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED </div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;"> JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__ </div>					
OFFICER-IN-CHARGE A.Y. Bryson, CDR							
I. INSTRUCTIONS DATED							
1. OFFICE		2. FIELD					
Aerotriangulation November 1, 1984 Compilation October 2, 1986	Control March 9, 1983 Change No. 1 March 16, 1983						
II. DATUMS							
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) <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border-bottom: 1px solid black;">STATE California</td> <td style="width:50%; border-bottom: 1px solid black;">ZONE 3</td> </tr> <tr> <td style="border-bottom: 1px solid black;">STATE</td> <td style="border-bottom: 1px solid black;">ZONE</td> </tr> </table>		STATE California	ZONE 3	STATE	ZONE
STATE California	ZONE 3						
STATE	ZONE						
5. SCALE 1:10,000							
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS		NAME	DATE				
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY		V. McNeel	Nov. 1984				
		NA					
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Calcomp 718 CHECKED BY		V. McNeel	Nov. 1984				
		D. Norman	Nov. 1984				
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1:10,000 CHECKED BY		R. Kravitz	Dec. 1986				
		F. Mauldin	Dec. 1986				
4. MANUSCRIPT DELINEATION PLANIMETRY BY METHOD: Smooth drafted CHECKED BY SCALE: 1:10,000 CHECKED BY HYDRO SUPPORT DATA BY		R. Kravitz	Dec. 1986				
		F. Mauldin	Mar. 1987				
		NA					
		NA					
5. OFFICE INSPECTION PRIOR TO FIELD EDIT Final review BY		F. Mauldin	Mar. 1987				
		NA					
6. APPLICATION OF FIELD EDIT DATA CHECKED BY		NA					
7. COMPILATION SECTION REVIEW Class III BY		F. Mauldin	Mar. 1987				
8. FINAL REVIEW Class III BY		J. Hancock	June 1987				
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		J. Hancock	July 1987				
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		P. Dempsey	Sept. 1987				
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		J. Rikkin	Oct. 1987				

TP-01249
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC10 (C), (C=88.46)		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 120 th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
83C(C) 0922-0924 *	Nov.25,1983	10:49	1:30,000	1.9 Ft. below MHW	
83C(C) 0948-0950 *	Nov.25,1983	11:08	1:30,000	1.9 Ft. below MHW	
83C(I) 1010-1012	Nov.26,1983	10:38	1:30,000	1.7 Ft. below MHW	
83C(I) 1035-1036	Nov.26,1983	10:55	1:30,000	1.8 Ft. below MHW	
				<u>Mean Tide Range 5.4 Ft.</u>	
84C(I) 2236-2237	Mar.22,1984	11:07	1:30,000	0.1 Ft. below MLLW	
84C(I) 2260-2261	Mar.22,1984	11:22	1:30,000	0.2 Ft. below MLLW	
				<u>Mean Tide Range 4.6 Ft.</u>	

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

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-01250		TP-01248

REMARKS This manuscript falls within the limits of project CM-7823, sheets TP-01057 and TP-01058, scale 1:20,000

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	Mar. 1983
	ESTABLISHED BY R. Melby	Mar. 1983
	PRE-MARKED OR IDENTIFIED BY R. Melby	Mar. 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

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
83Z(C)4165*	CT 74 USN, 1954 (Sub Point paneled) *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 Form 76-53 (CSI card)
- 1 Page, EDM observations
- 1 Project Field Report

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	None
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: _____

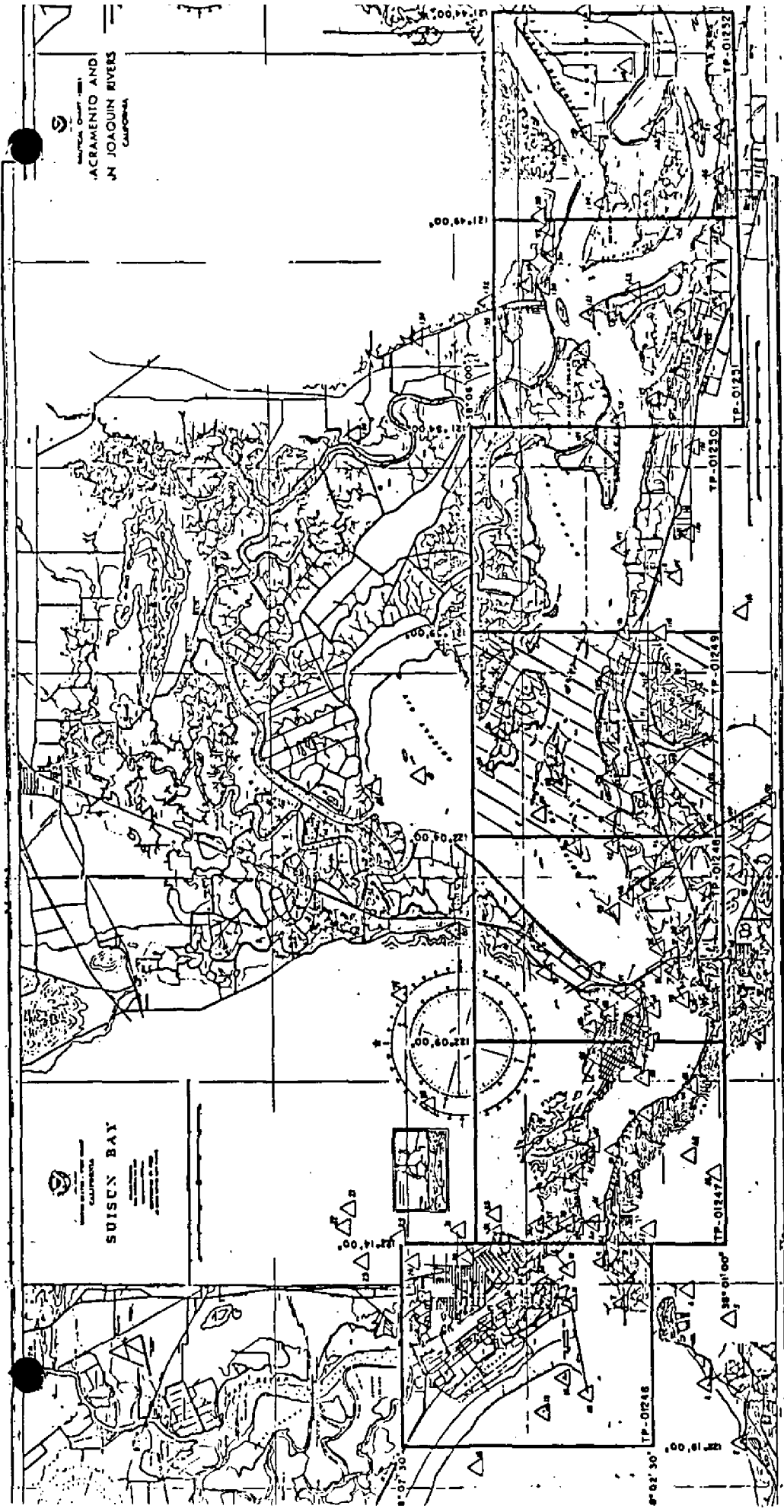
III. FEDERAL RECORDS CENTER DATA

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	



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

- LEGEND:**
- = 1:30,000 Color (Bridge)
 - = 1:30,000 Color (Competition)
 - ◐ = 1:30,000 Black & white (Inverted) MW
 - ◑ = 1:30,000 Black & white (Inverted) MLL

Scale Photo Coverage
 1:30,000

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01249

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 a portion of shoreline in the vicinity of Suisun Bay and Ryer Island.

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 registered map copies of TP-01057 and TP-01058 from previous shoreline project CM-7823, compiled in 1981.

TP-01249

Final review for this final 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-01249

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

Robert B. Melby
FROM: 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
Vic McNeel

Approved and Forwarded:

Don O. Norman
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

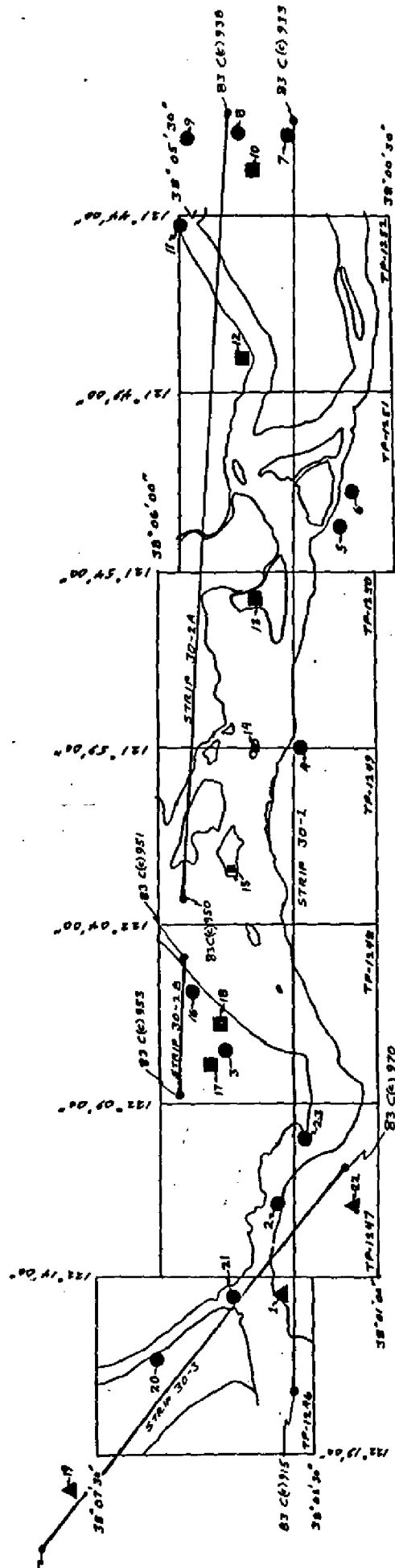
	<u>Ratio Value</u>
83-C(C) 915-933	3.125
938-950	3.124
951-953	3.128
964-965	3.120
966-967	3.127
968	3.142
969	3.036
970	3.072

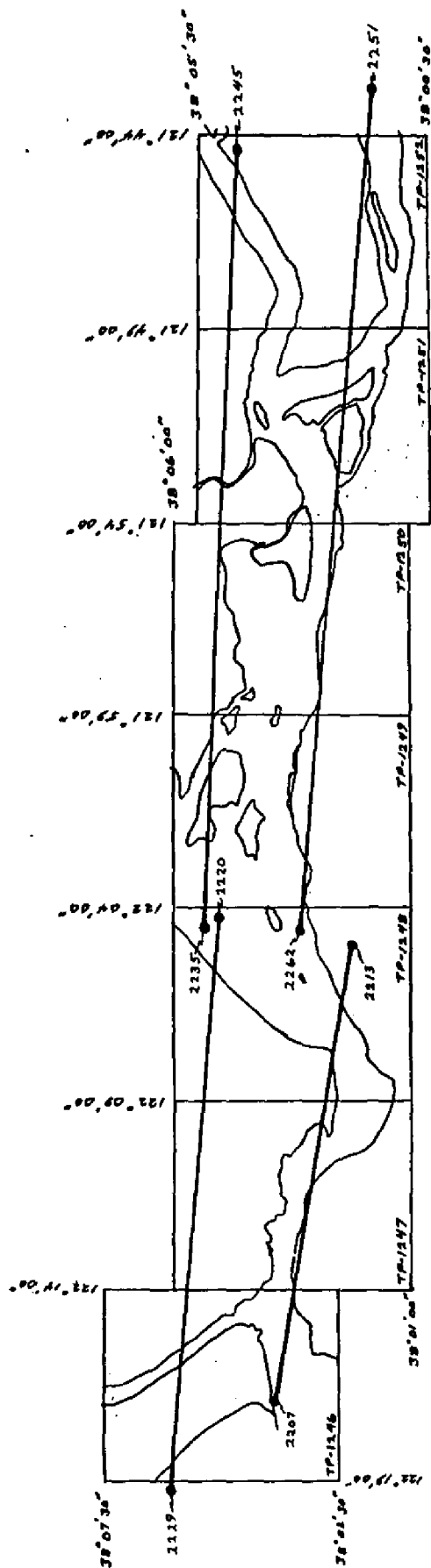
MLLW 1:30,000 Black-and-White Infrared

	<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





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

MILLW BLACK AND WHITE SUPPLEMENT PHOTOGRAPHS
 B4 C (R) 1:30,000 SCALE

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-01249	JOB NO. CM-8305	GEODETIC DATUM 1927 NA	ORIGINATING ACTIVITY Coastal Mapping Unit, AMC, Norfolk, VA	REMARKS
STATION NAME CT 74 USN, 1954	SOURCE OF INFORMATION (Index) Quad 381222 Sta. 1074	AEROTRI- ANGULATION POINT NUMBER 923100	COORDINATES IN FEET STATE <u>California</u> ZONE <u>3</u>	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE ϕ 38 02 18.159 λ 122 01 21.098
			X=	
			Y=	
			X=	
			Y=	
			X=	
			Y=	
			X=	
			Y=	
			X=	
			Y=	
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			X=	
			Y=	
			X=	
			Y=	
			X=	
			Y=	
			X=	
			Y=	
COMPUTED BY		DATE	COMPUTATION CHECKED BY	DATE
LISTED BY R. Kravitz		DATE 5/24/86	LISTING CHECKED BY F. Mauldin	DATE 3/24/87
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY	DATE

COMPILATION REPORT

TP-01249

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 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, maps TP-01057 and TP-01058, at a scale of 1:20,000.

TP-01249

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

U.S.G.S. Quadrangle, Honker Bay, California; dated 1953, photo revised 1980; scale 1:24,000

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

Class III Shoreline Map, TP-01058; CM-7823; scale 1:20,000

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following National Ocean Service charts:

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

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

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

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

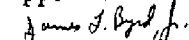


Robert R. Kravitz

Cartographic Technician

December 23, 1986

Approved:



James L. Byrd, Jr.

Chief, Coastal Mapping Unit

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP-01249

Belloma Slough
Buckler, Point
Fishermans Channel
Freeman Island
Garnet Point
Gillespie Point
Grizzly Bay
Hastings Slough
Middle Ground
Middle Ground Island
Middle Point
Naval Weapons Station
Norther Slough
Preston Point
Roe Island
~~Ryan Island~~-----Ryer Island *9/24*
Seal Islands
Seal Islands Channel
Simmons Island
Southern Pacific (RR)
Suisun Bay
Suisun Cutoff

Approved:

Charles E. Harrington

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

REVIEW REPORT
SHORELINE

TP-01249

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 Maps TP-01057 and TP-01508, 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:

Port Chicago, California; dated 1959, photo revised 1968, scale
1:24,000,
Honker Bay, California; dated 1953, photo revised 1980, 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:

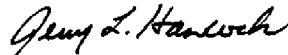
18658, 23rd edition, April 6, 1985, scale 1:10,000
18656, 46th edition, Jan. 19, 1985, scale 1:40,000
18652, 24th edition, Sep. 14, 1985, scale 1:40,000.

TP-01249

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:



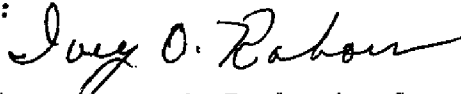
Jerry L. Hancock
Final Reviewer

Approved for forwarding:

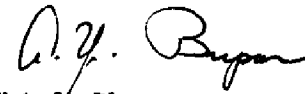


Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved:



Chief, Photogrammetric Production Sec.



Chief, Photogrammetry Branch

