

TP-01252

TP-01252

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-01252

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 SUTSUN BAY

Locality

SHERMAN ISLAND

19 83 TO 19

REGISTERED IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		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. <u>01252</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III (FINAL)</u> JOB <u>RM-CM-8305</u>	
OFFICER-IN-CHARGE <u>A.Y. Bryson, CDR</u>		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB <u>PH-</u> MAP CLASS <u></u> SURVEY DATES: 19 <u></u> TO 19 <u></u>	
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 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	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY		<u>V. McNeel</u>	<u>Nov. 1984</u>
2. CONTROL AND BRIDGE POINTS METHOD: <u>Calcomp 718</u> PLOTTED BY		<u>V. McNeel</u>	<u>Nov. 1984</u>
3. STEREOSCOPIC INSTRUMENT COMPILATION PLANIMETRY BY		<u>D. Norman</u>	<u>Nov. 1984</u>
INSTRUMENT: <u>Wild B-8</u> CHECKED BY		<u>P. Evans</u>	<u>Jan. 1987</u>
SCALE: <u>1:10,000</u> CHECKED BY		<u>F. Mauldin / R. Kravitz</u>	<u>Jan. 1987</u>
4. MANUSCRIPT DELINEATION PLANIMETRY BY		<u>NA</u>	
METHOD: <u>Smooth drafted</u> CHECKED BY		<u>P. Evans / A. Ebadirad</u>	<u>Feb. 1987</u>
SCALE: <u>1:10,000</u> CHECKED BY		<u>J. Byrd</u>	<u>May 1987</u>
HYDRO SUPPORT DATA BY		<u>NA</u>	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		<u>P. Evans / A. Ebadirad</u>	<u>Feb. 1987</u>
CHECKED BY		<u>J. Byrd</u>	<u>May 1987</u>
6. APPLICATION OF FIELD EDIT DATA BY		<u>J. Byrd</u>	<u>May 1987</u>
CHECKED BY		<u>NA</u>	
7. COMPILATION SECTION REVIEW <u>Class III</u> BY		<u>NA</u>	
8. FINAL REVIEW <u>Class III</u> BY		<u>J. Byrd</u>	<u>May 1987</u>
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		<u>J. Hancock</u>	<u>July 1987</u>
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		<u>J. Hancock</u>	<u>July 1987</u>
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		<u>R. Dempsey</u> <u>J. HANCOCK</u>	<u>Sept. 1987</u> <u>OCT. 1987</u>

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC10 (C), (C=88.46mm)		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				ZONE Pacific	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
				MERIDIAN 120th	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
83C(C) 0929-0932 *	Nov.25,1983	10:49	1:30,000	1.9 Ft. below MHW	
83C(C) 0940-0943 *	Nov.25,1983	11:08	1:30,000	1.9 Ft. below MHW	
83C(I) 1018-1020	Nov.26,1983	10:45	1:30,000	1.7 Ft. below MHW	
83C(I) 1026-1028	Nov.26,1983	10:53	1:30,000	1.8 Ft. below MHW	
				Mean Tide Range =5.4 Ft.	
84C(I) 2243-2245	Mar.22,1984	11:09	1:30,000	0.1 Ft. below MLLW	
84C(I) 2251-2254	Mar.22,1984	11:19	1:30,000	0.2 Ft. below 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-01251

REMARKS This manuscript falls within the limits of project CM-7823, sheet TP-01059,
scale 1:20,000.

TP-01252

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 ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA NA NA
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	NA NA 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

None

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER

STATION NAME

PHOTO NUMBER

STATION DESIGNATION

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-01252
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

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

II. LANDMARKS AND AIDS TO NAVIGATION NA

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: _____

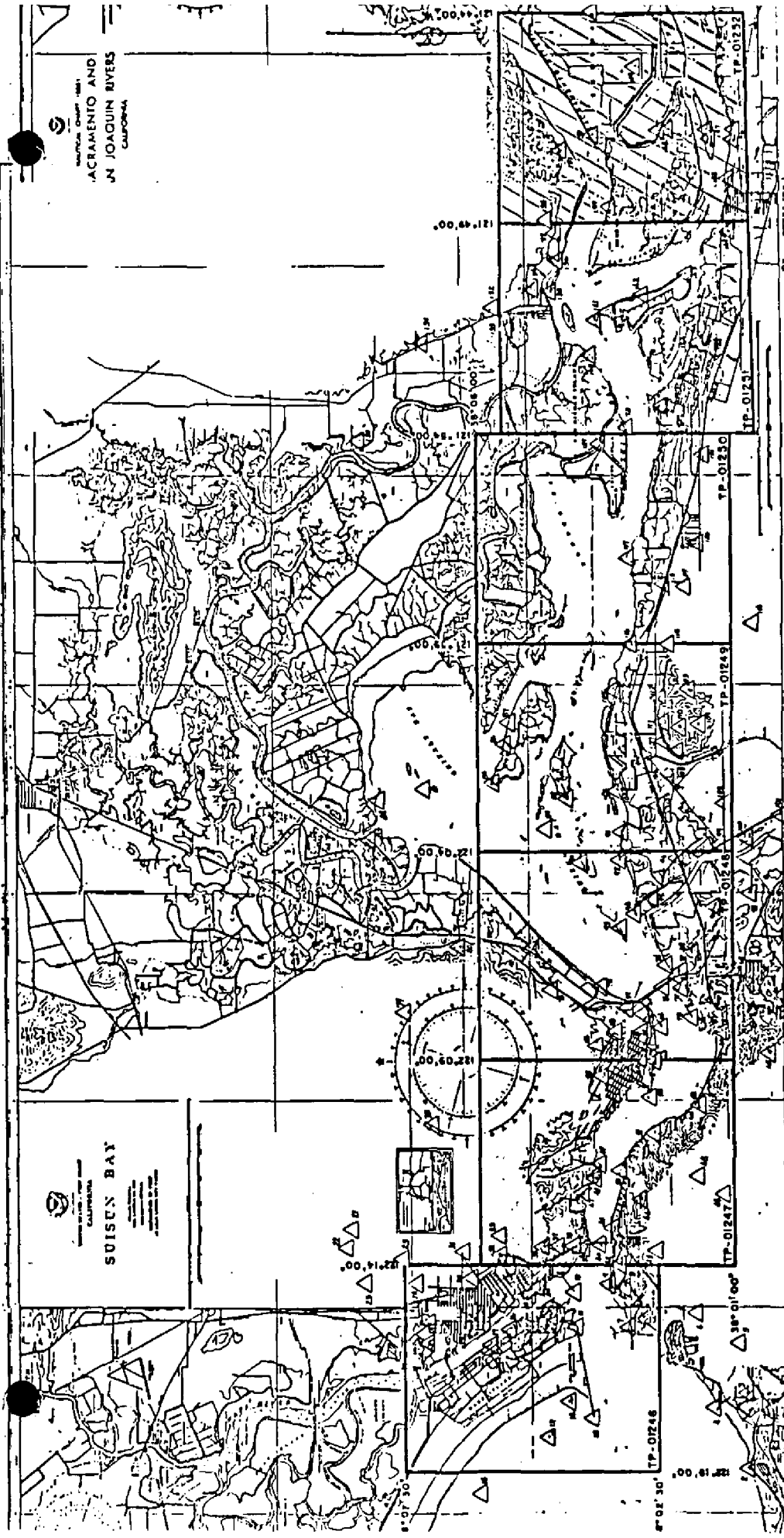
III. FEDERAL RECORDS CENTER DATA

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	



SUISUN BAY
CALIFORNIA

**ACRAMENTO AND
JOAQUIN RIVERS**
CALIFORNIA

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

- LEGEND:**
- 1:30,000 Color (Bridging)
 - 1:30,000 Color (Completion)
 - ◐ 1:30,000 Black & White (Infrared) M/W
 - ◑ 1:30,000 Black & White (Infrared) M/LN

Scale Photo Coverage
1:30,000

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01252

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 western end of Sherman Island. This map defines the eastern limit of the project.

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(Z) 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 May 1987. Interpretation of detail was complemented by using the infrared photographs. A detailed comparison was made with a registered map copy of TP-01059 from previous shoreline project CM-7823, compiled in 1981.

TP-01252

Final review for this final Class III map was performed at the Atlantic Marine Center in July 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-01252

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: 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

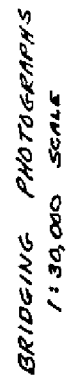
	<u>Ratio Value</u>
83-C(C) 915-933	3.125
938-950	3.124
951-953	3.128
964-965	3.120
966-967	3.127
968	3.142
969	3.036
970	3.072

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

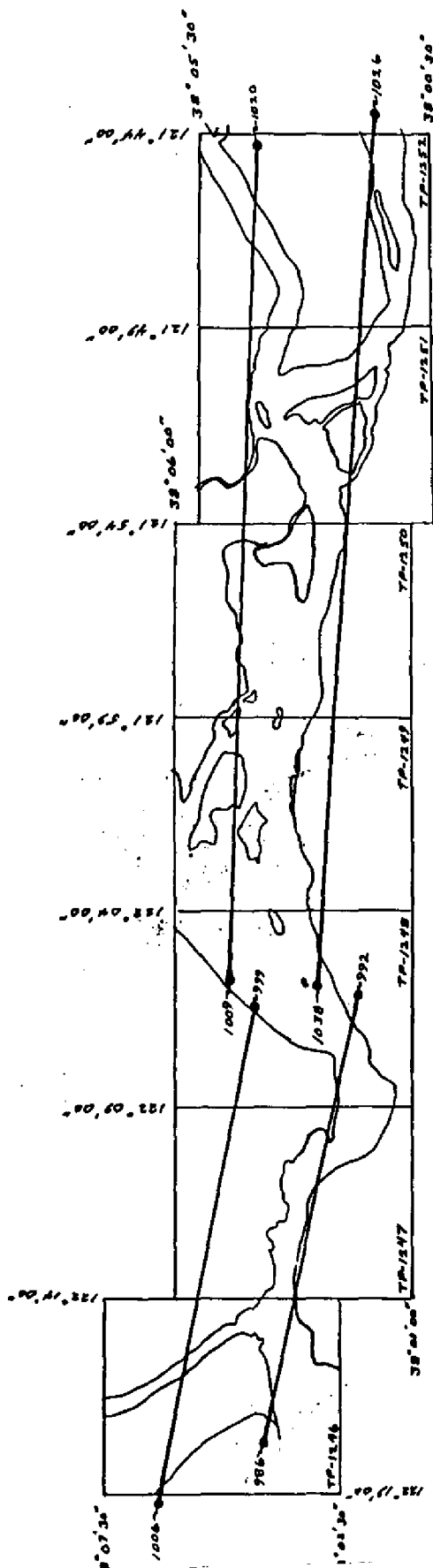
	<u>Ratio Value</u>
83-C(R) 986-992	2.97
999-1006	2.98
1009-1020	2.97
1026-1038	2.96



JOB CM-8305
CARQUENEZ STRAIT AND SOUTHERN SUISUN BAY
CALIFORNIA
SHORELINE MAPPING
SCALE=1"=10,000'

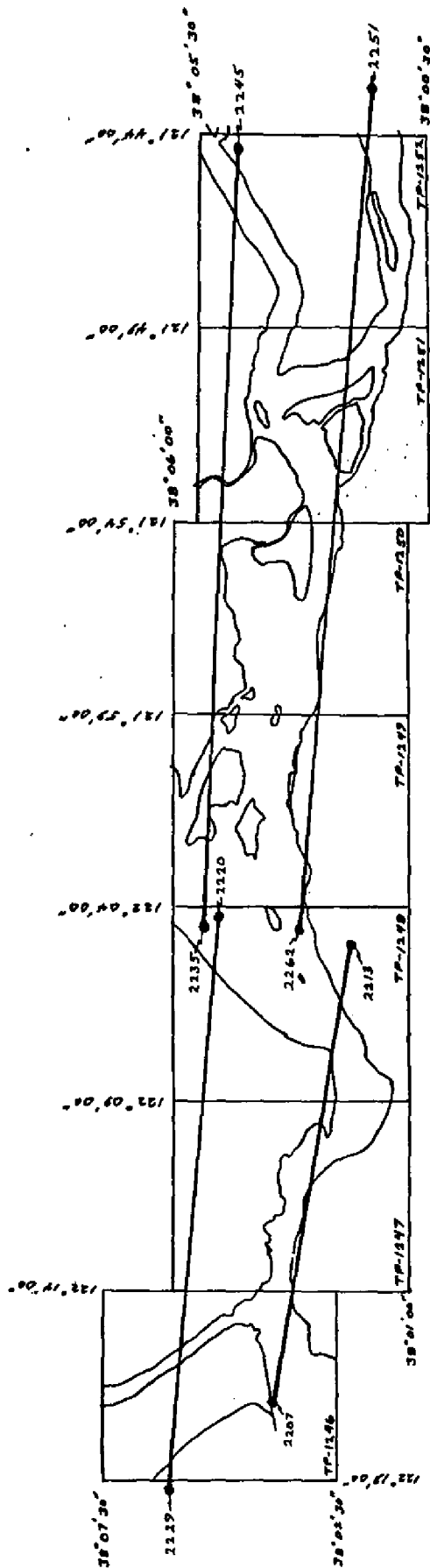
HORIZONTAL CONTROL HELD:

- ▲ = PRIBED STATIONS
- = OTHER POSITIONS
- = THE POINTS USED AS CON



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

NHWW BLACK AND WHITE INFRARED PHOTOGRAPHS
 83 C (R) 1:30,000 SCALE



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

MLLW BLACK AND WHITE INFERRED PHOTOGRAPHS
 84 C (R) 1:30,000 SCALE

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	COORDINATES IN FEET	AEROTRI- ANGULATION POINT NUMBER	ORIGINATING ACTIVITY	REMARKS
TP-01252	CM-8305	1927 NA	STATE California ZONE 3		Coastal Mapping Unit AMC, Norfolk, VA	
STATION NAME	SOURCE OF INFORMATION (Index)				ϕ LATITUDE λ LONGITUDE	
None			X=		ϕ	
			Y=		λ	
			X=		ϕ	
			Y=		λ	
			X=		ϕ	
			Y=		λ	
			X=		ϕ	
			Y=		λ	
			X=		ϕ	
			Y=		λ	
			X=		ϕ	
			Y=		λ	
COMPUTED BY		DATE	COMPUTATION CHECKED BY			DATE
LISTED BY		DATE	LISTING CHECKED BY			DATE
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY			DATE

COMPILATION REPORT

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31. DELINEATION:

Delineation was accomplished using stereo instrument and graphic methods. Delineation of shoreline, alongshore, and interior detail was based upon office interpretation of the 1:30,000 scale 1983 color bridging/compilation 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 quality was adequate. Complete color stereo photograph coverage was lacking for a small portion of shoreline south of Latitude 38° 01.0' between Longitude 121° 46.5' to Longitude 121° 47.0'. This area was compiled graphically from the mean high water infrared and one color ratio photograph.

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 as described in item #31.

37. LANDMARKS AND AIDS:

The investigation and mapping of charted landmarks and fixed aids to navigation are not required. These features were previously investigated on project CM-7823, sheet TP-01059, scale 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 Antioch North, California; dated 1978; scale 1:24,000

U.S.G.S. Quadrangle Jersey Island, California; dated 1978, scale 1:24,000

Class III Shoreline Map, TP-01059; CM-7823; scale 1:20,000

47. COMPARISON WITH NAUTICAL CHARTS:

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

18659; 8th edition; dated May 1, 1982; scale 1:10,000

18661; 16th edition; dated May 4, 1985; scale 1:40,000, inset scale 1:20,000 SC

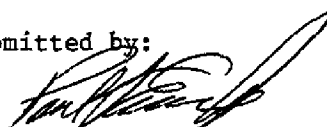
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

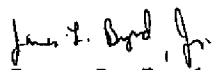
None.

Submitted by:



Paul L. Evans, Jr.
February 1987

Approved:



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

APR 30²⁰ 1987

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP-01252

Atchison Topeka and Santa Fe (RY)

Cabin Slough

Decker Island

Donlon Island

East Antioch

Horseshoe Bend

Kimball Island

Mayberry Cut

Mayberry Slough

Sacramento River

San Joaquin River

Sherman Island

Sherman Lake

Toland Landing

West Island

Antioch *9/14*

Approved:

Charles E. Harrington

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

REVIEW REPORT
SHORELINE

TP-01252

61. GENERAL STATEMENT:

Final review for this final Class III map was accomplished at the Atlantic Marine Center in July 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-01059, 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:

Antioch North, California; dated 1978, scale 1:24,000,
Jersey Island, California; dated 1978, 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:

18659, 9th edition, Sept. 13, 1986, scale 1:10,000
18661, 16th edition, May 4, 1985, scale 1:40,000, inset scale
1:20,000 SC.

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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: *Irey O. Rohon*
Chief, Photogrammetric Production Sec.

A. Y. Bryan
Chief, Photogrammetry Branch

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-01252, (CM-8305)

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.

[illegible]