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 FIR	TID EDITED
<i>Map No.</i> TP-01246	Edition No.
Job No. CM-8305	
Map Classification CLASS III (FINAL)	
Type of Survey SHORELINE	
LOCALIT	Υ .
State CALIFORNIA	
General Locality CAROUINEZ STRAIT AND SOUTHERN SU	TSIN RAY
Locality MARE ISLAND	
1983 TO 19	,
REGISTERED IN A	RCHIVES
DATE	

NOAA FORM 76-36A (3-72) NATIONAL	U. S. DEPARTMENT OF COMMERCE OCEANIC AND ATMOSPHERIC ADMIN	. Τ	YPE OF SURVEY	SURVEY '	TP- <u>01246</u>
		Øk.	ORIGINAL	MAP EDITI	ON NO. (1)
DESCRIPTIVE REP	ORT - DATA RECORD	1 .	RESURVEY	MAP CLASS	SIII(Final)
DESCRIPTIVE REP	OKT - DATA KEOOKS		REVISED		RHX_CM-8305
PHOTOGRAMMETRIC OFFICE		╁∸	LAST PRECEED		
Coastal Mapping Unit.	Atlantic Marine Center	1 7	YPE OF SURVEY		PH
Norfolk VA		ם	ORIGINAL		i ————
OFFICER-IN-CHARGE			RESURVEY	SURVEY D	
A. Y. Bryson, CDR		Lº	REVISED	19TO 19)
I. INSTRUCTIONS DATED					
1. (OFFICE	} -		FIELD	
Aerotriangulation Compilation	November 1, 1984 October 2, 1986		ntrol March ange No. 1 Ma	9, 1983 rch 16, 1	L983
II. DATUMS					
1. HORIZONTAL:	1927 NORTH AMERICAN	OTHE	R (Specify)		
2. VERTICAL:	MEAN HIGH-WATER MEAN LOW-WATER MEAN LOWER LOW-WATER MEAN SEA LEVEL	ОТНЕ	R (Specify)		
3. MAP PROJECTION				GRID(S)	
Lambert Conformal		Ca.	e Lifornia	ZONE 3	
5. SCALE		STAT	E	ZONE	
1:10,000	TIONS	<u> </u>			
	RATIONS	Т	NAME	· · · – <u>– </u>	DATE
1. AEROTRIANGULATION METHOD: Analytic	ву	v.	McNeel_		Nov 1984
METHOD: AMALYCIC	LANDMARKS AND AIDS BY	NA			
2. CONTROL AND BRIDGE POIN METHOD: Calcomp 718	TS PLOTTED BY CHECKED BY		McNeel		Nov 1984
3. STEREOSCOPIC INSTRUMENT			Norman Kravitz	 `	Nov 1984 Nov 1986
COMPILATION	PLANIMETRY BY CHECKED BY		Mauldin		Nov 1986
INSTRUMENT: Wild B-8	CONTOURS BY	NA			
scale: 1:10,000	CHECKED BY	NA.			7,006
4. MANUSCRIPT DELINEATION	PLANIMETRY BY CHECKED BY	$\overline{}$	Kravitz Mauldin		Nov 1986 Jan 1987
	CONTOURS BY	NA.			3411 1.707
метнор: smooth draft	ed CHECKED BY	NA			
SCALE: 1 10 000	HYDRO SUPPORT DATA BY		Kravitz		Nov 1986
1:10,000	CHECKED BY TO MENOXEMPT inal reviewsy		Mauldin		Jan 1987 Jan 1987
	BY	NA.	Mauldin		5011 1507
6. APPLICATION OF FIELD EDI	CHECKED BY	NA			
7. COMPILATION SECTION REVI		1	Mauldin	- · · · · ·	Jan 1987
8. FINAL REVIEW 9. DATA FORWARDED TO PHOT	Class III BY OGRAMMETRIC BRANCH BY	 J -	Hancock		Jan 1987
10. DATA EXAMINED IN PHOTOG			Hancock Dempsey		July 1987
11. MAP REGISTERED - COASTAL		7,	RIKON		TRP 190
NOAA FORM 76-36 A	SUPERSEDES FORM C&GS 181 SERIE	\$			

♥ U.S. G.P.O. 1972-769382/582 REG.#6



NOAA FORM 76-36B 3-72)		TP-01246 MPILATION SO		NC AND ATMOSPHERIC	NT OF COMMERCE : ADMINISTRATION IL OCEAN SURVEY
I. COMPILATION PHOTOGRAPHY	1				
CAMERA(S)			PHOTOGRAPHY	TIME REF	FRENCE
Wild RC-10(C) (C=88.4	6mm)	_ \	EGEND		
TIDE STAGE REFERENCE		(C) COLOR		ZONE	
PREDICTED TIDES		(P) PANCHE	ROMATIC	Pacific	∭\$TANDARD
REFERENCE STATION RECOR		(I) INFRAR	£0	MERIDIAN	DAYLIGHT
		ļ		120th	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE O	FTIDE
83C(C) 0915-0917*	11-25-83	10:49	1:30,000	1.9 feet bel	
83C(C) 0964-0968*	11-25-83	11:25	1:30,000	1.8 feet bel	ow MHW
83C(I) 0987-0988	11-26-83	10:18	1:30,000	1.6 feet bel	OW MHW wo
83C(I) 1004-1005	11-26-83	10:27	1:30,000	1.6 feet bel	OW MHW wo
	<u> </u>	1		Mean Tide Rai	nge = 5.4 Rt
04-43 00					
84C(I) 2207-2208	03-22-84	10:29	1:30,000	0.2 feet abo	
84C(I) 2227-2228	03-22-84	10:44	1:30,000	o.l feet abo	ve MLLW
				Mean Tide Ran	nge = 4.6 Ft
REMARKS		.		<u> </u>	····
Compilation/bridging	nhotogranhe				
Stage of tide for all		nased on pro	edicted tide	data from Benid	ria Armar n
2. SOURCE OF MEAN HIGH-WATE	ER LINE:	sasea on pr	carocca crac	data IIom benit	gage
					gage
The Mean High Water L. compilation/bridging					above listed
3. SOURCE OF MEAN LOW-WATE	R OR MEAN LOWER L	OW-WATER LINE	:	\	
			ed on this pr		

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 EAST SOUTH WEST NORTH TP-01247 None None

REMARKS

This large scale manuscript lies completely within the limits of TP-00525, scale 1:20,000, CM-7704, final reviewed Sept 1981.

NOAA FORM 76-36C 3-72}	TP=01246 History of Field		U.S. DEPARTMENT AND ATMOSPHERIC A NATIONAL	DE COMMER DMINISTRATI OCEAN SURV
I. X FIELD PASKECONO	OPERATION (premarking) FIEL	D EDIT OPERATION		
	OPERATION	NAM	E	DATE
]. CHIEF OF FIELD PAR	тү	R. Melby	M	lar , May 19
	RECOVERED BY	R. Melby		ar 1983
. HORIZONTAL CONTRO		R. Melby		ar 1983
	PRE-MARKED OR IDENTIFIED BY	R. Melby	M	lar 1983
	RECOVERED BY	NA		
, VERTICAL CONTROL	ESTABLISHED BY	NA		
	PRE-MARKED OR IDENTIFIED BY	NA		
	RECOVERED (Triangulation Stations) BY	NA		
LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY	NA		
	IDENTIFIED BY	NA		
	TYPE OF INVESTIGATION			
, GEOGRAPHIC NAMES INVESTIGATION	COMPLETE BY SPECIFIC NAMES ONLY	}		
	NO INVESTIGATION			
DUCTO INCRECTION		None		
. PHOTO INSPECTION . BOUNDARIES AND LIM	CLARIFICATION OF DETAILS BY ITS SURVEYED OR IDENTIFIED BY	NA		
. SOURCE DATA	113 JONYETED ON TOEN TIFIED OF	I WA		
. HORIZONTAL CONTRO	L IDENTIFIED	2. VERTICAL CONTR	OL IDENTIFIED	
premarked (pane)	led)	None		
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGN	NA TLON
	CO, 1949 (subpoint paneled)			
	•)		
	Fer to Photogrammetric Plot	}		
Re ₁	port Item #23			
DHOTO NUMBERS (CL		1	<u> </u>	
. PHOTO NUMBERS (Cla	rication of details)			
None				
. LANDMARKS AND AIDS	TO NAVIGATION IDENTIFIED			
None				
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NA	<u></u> -
		1		
}		1		
1				
		1		
1				
CEACH LINE WAS		<u> </u>	····	
GEOGRAPHIC NAMES:	REPORT X NONE	6. BOUNDARY AND L	MITS: REPORT	(X) NONE
. SUPPLEMENTAL MAPS	ANU PLANS			
None				
OTHER FIELD RECORD	DS (Sketch books, etc. DO NOT list data submi	ited to the Geodesy Divisi	(on)	
1 Form 76-53 (C			•	
1 EDMI Form				

1 Page, Field Observations 1 Project Field Report

NOAA FOR (3-72)	M 76-36D	-	N/	ATIONAL OCI			NT OF COMMERCE
	•	RECO	ĸďďfor°304%e	Y USE			
I. MANUSCI	RIPT COPIES						
	c	OMPILATION STAGE	S			DATE MANUSCE	RIPT FORWARDED
	ATA COMPILED	DATE	RE	MARKS	N	ARINE CHARTS	HYDRO SUPPOR
Compilat	ion Complete	Jan 1987	Class III	manuscri	ipt	None .	None
Final Re	view	Jan 1987	Final Clas	ss III Ma	up /	lug. 1987	Jan 1987 July 19.27
					_		
	ARKS AND AIDS TO NAVIG						
1. REPO	RTS TO MARINE CHART	DIVISION, NAUTICAL	DATA BRANCH				
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED			REMAR	RKS	
			Not re	quired fo	or proj	ject	
							
		 					
		ļ	ļ			 	_
		<u> </u>					
===	EPORT TO MARINE CHAR						
	REPORT TO AERONAUTIC. AL RECORDS CENTER DA		, AERONAUTICAL	L DATA SECT	ION. DAI	E PORWARDED	<u></u>
1. [V]	BRIDGING PHOTOGRAPHS	· TO DUE! ICATE	BRIDGING REDO	ıe⊤. चिटि	MPLITER	READOUTS	
	CONTROL STATION IDENT						
3. 🗀	SOURCE DATA (except for ACCOUNT FOR EXCEPTION	Geographic Names Re					
	DATA TO FEDERAL RECO						
IV. SURVE	Y EDITIONS (This section	shall be completed e.		p edition is re		YPE OF SURVEY	,
SECOND	TP	(2) PH ·			REVI		ESURVEY
EDITION	DATE OF PHOTOGRAP	PHY DATE OF FI	ELD EDIT] □ □().	- 111.	MAP CLASS	FINAL
	SURVEY NUMBER	JOB NUMBE	R			PE OF SURVEY	
THIRD	TP	(3) PH	_ 		REVI	SED 🗆 RE	SURVEY
EDITION	DATE OF PHOTOGRAF	HY DATE OF FI	ELD EDIT		□ m.	MAP CLASS	FINAL
	SURVEY NUMBER	JOB NUMBE	R	 		PE OF SURVEY	
FOURTH	TP	(4) PH -			☐ REVI	SED RE	SÜRVÉY

DATE OF FIELD EDIT

FOURTH

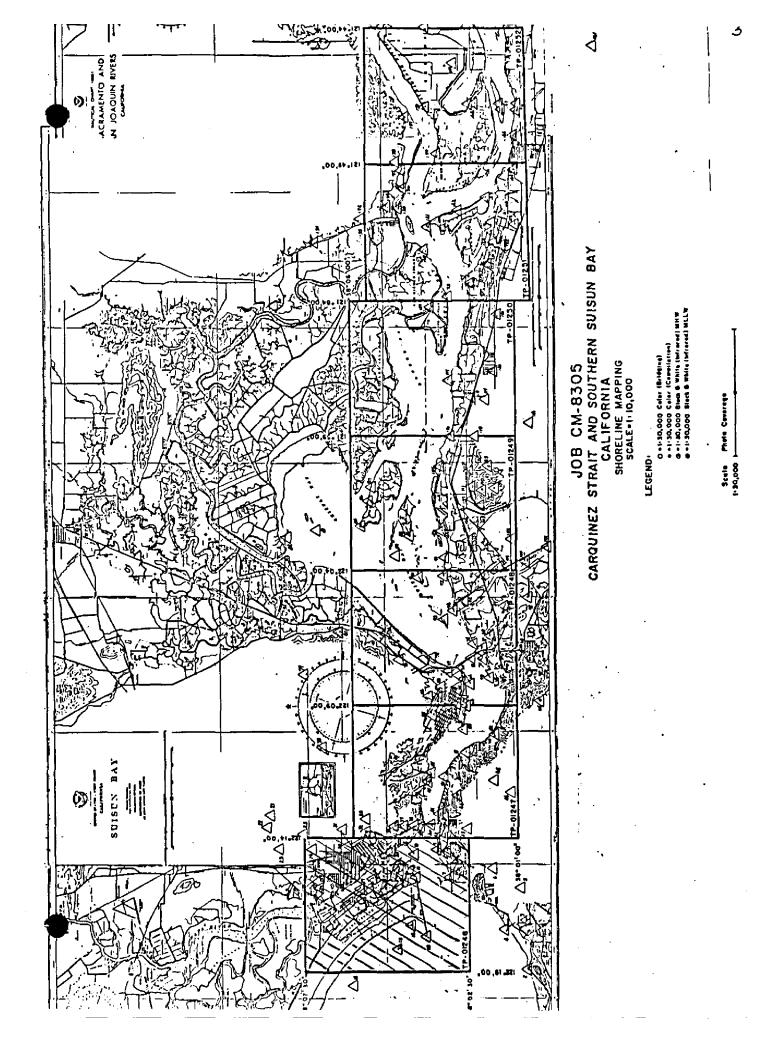
EDITION

MAP CLASS

□v.

□ ııı. □ıv.

□n.



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORTS TP-01246

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 of Mare Island Strait and the entrance to Carquinez Strait at the eastern border of San Pablo Bay. This map defines the western 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 Washingtion Science Center in November 1984. Flooded conditions observed on the original bridging photographs required the transferring of the premarked horizontal control stations to the reflown 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 January 1987. Interpretation of detail was complemented by use of the infrared photographs. A preliminary manuscript compiled from the same source material by the Pacific Marine Center, Photogrammetric Unit in June 1986 was used as a primary resource for shoreline delineation.

STIMMARY

Final review for this Class III map was performed at the Atlantic Marine Center in January 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-01246

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

N/MOP222 - Robert B. Melby

FROM:

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:

The Mc Neel

Approved and Forwarded:

Don O. Norman

Chief, Aerotriangulation Unit

Don O. Norman

FIT TO CONTROL

- ▲ = Transferred paneled stations held in adjustment
- Other positions used as control
- = Tie points used as control

STRIP #30-1

	STATION NAMES	POINT NO.	VALUES I	N FEET
1 .	Amsco 1949, Sub Point Mare Island Strait Light 1 Mare Island Strait Light 2 Nadeen 1955, Sub Point Panel Nadeen 1955, Sub Point Alt.	916101 967150 967151 917101 917102	-2.9 -0.8 +1.1 +1.2 +0.4	+1.9
• 2.	Carquinez Strait Light 20 Carquinez Strait Light 22 Carquinez Strait Light 23	969150 969151 970150	+0.7 -1.8 -0.1	-1.2 +1.4 -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 Pittsburg, Columbia Steel Co. Canal Tank, 1950, Sub Point	927140 928101	-1.0 -0.8	+2.9
● 6.	Pittsburg, Columbia Steel Co. Canal Tank 1950 Pittsburg, Columbia Steel Co. River Water Tank, 1950	928100 928141	-1.8 -0.4	+3.0
	San Joaquin River Lt. 19	932151	-1.2	-4.2
● 7.	San Joaquin River Lt. 23 San Joaquin River Lt. 24	933150 933151	+1.7 +1.0	-1.6 -0.3

STRIP #30-2A

	San Joaquin River Lt. 24	933151	+1.9	+1.0
●8.	San Joaquin River Lt. 25 San Joaquin River Lt. 26	939150 939151	+2.2 -1.1	+1.4 +0.6
●9.	San Joaquin River Lt. 29 Tie From Strip #30-1	939154 933801	-1.8 +2.3	-0.7 -2.9
■ 10.	Tie From Strip #30-1 Tie From Strip #30-1 Sacramento River Deep Water Ship Channel Lt. 15	933802 933803 940150	+0.8 +1.6 -3.0	-2.3 -2.1 -0.9
•11.	Sacramento River Deep Water Ship Channel Lt. 17 Tie From Strip #30-1	940151 930801	-4.1 +6.4	+0.1 -3.1
# 12.	Tie From Strip #30-1 Tie From Strip #30-1 Tie From Strip #30-1 Tie From Strip #30-1	930802 930803 926801 926802	+4.6 +4.4 -1.6 -0.3	-0.2 -1.0 +0.3 +1.0
# 13.	Tie From Strip #30-1 Tie From Strip #30-1 Tie From Strip #30-1	926803 924801 924802	-1.0 -0.8 -3.2	+1.2 +4.8 +1.8
1 14.	Tie From Strip #30-1 Tie From Strip #30-1 Tie From Strip #30-1	924803 922801 922802	-1.7 +0.1 0.0	+3.1 -0.2 +0.3
1 5.	Tie From Strip #30-1 Tie From Strip #30-1 Tie From Strip #30-1 Tie From Strip #30-1	922803 922804 922805 922806	+1.0 +2.5 +2.2 -0.4	-2.6 -0.7 -3.3 -4.0
STRI	P #30-2B	-		
	Tie From Strip #30-1 Tie From Strip #30-1 Tie From Strip #30-1	920801 920802 920803	-2.1 -2.8 -4.1	-1.4 -0.2 -5.1
● 16.	Green House, West Gable, 1939	952110	+0.6	+0.7
■ 17.	Tie From Strip #30-1 Tie From Strip #30-1 Tie From Strip #30-1 Tie From Strip #30-1	919801 919802 919803 919804	-0.7 -1.2 -1.6 +0.6	-2.0 -0.3 -2.0 -1.9

■ 18.	Tie From Strip #30-1 Tie From Strip #30-1 Tie From Strip #30-1	920801 920802 920803	-1.9 -2.4 -3.7	
● 3.	Exxon Refinery Stack, 1977	953141	+2.1	+2.6
STR	IP #30+3			
▲ 19.	Long Pond 2 RM3 Panel Vallejo Park Circle Tank	964101 966141	+0.4 +6.6	0.0 +2.4
• 20.	Mare Island USN Stack Carquinez Strait, Range Target	966140	-2.2	0.0
	No. 1, 1932 Carquinez Strait, Range Target	966150	+2.6	+1.0
	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.		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

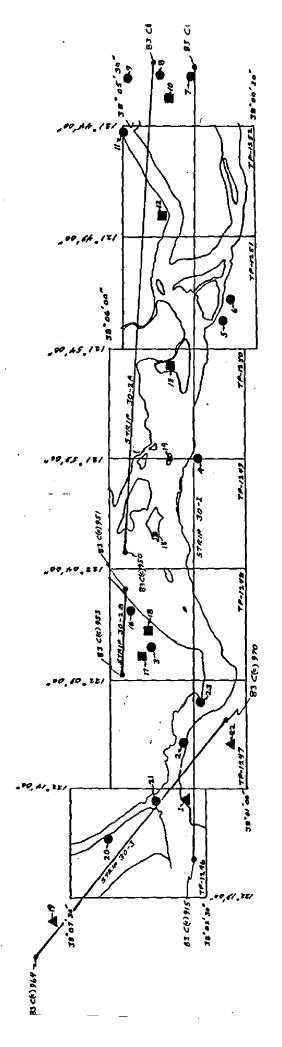
	Ratio Value
83-C(C) 915-933	3.125
938-950	3.124
951-953	3.128
964-965	3.120
966-967	3.127
968	3.142
969	3.036
970	3.072

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

	katto val <u>ue</u>
2207-2213	3.04
2220-2229	3.02
2235-2245	3.04
2251-2261	3.04
	2235-2245

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

	katio value
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-11 10,000

TTHE POINTS USED AS C.

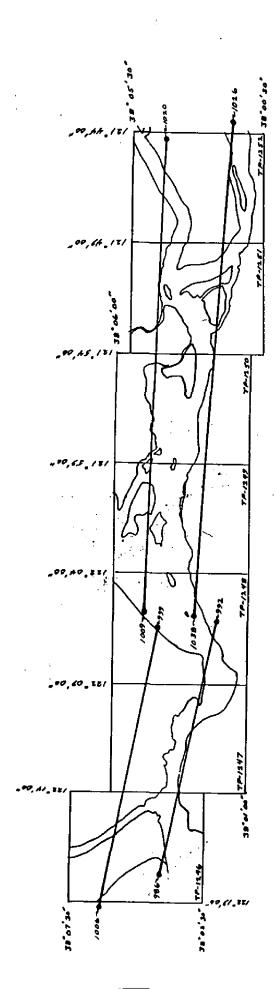
HORIZONTAL CONTROL H
A = MANIER STATIONS

= OTHER MOSTIONS

BRIDGING PHOTOGRAPHS

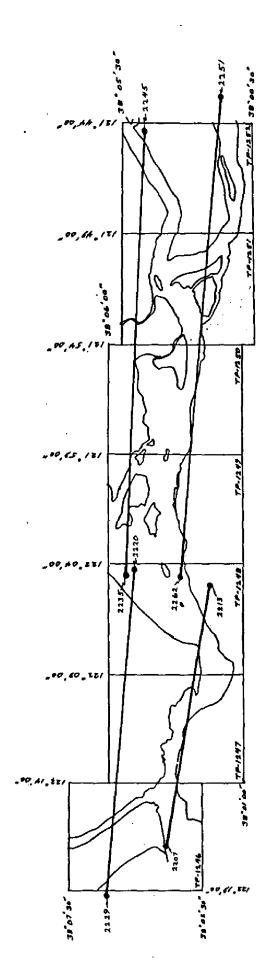
1:30,000 SCALE

19



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

MHW BLACK AND WHITE INFRAGED PHOTOGRAPH. 83 C (R) 1:30,000 SCALE



JOB CM-8305 CARQUINEZ STRAIT AND SOUTHERN SUISUN BAY

MILLU BINCK AND WAITS INFRIED PHOTOGRA 84 C (R) 1:30,000 SCALE

NOAA FORM 6-41				NATIONAL OCEANIC A	U.S. DEPARTMENT OF COMMERCE
		DESCRIPTIVE	E REPORT CONTROL RECORD		
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	CTIVITY
TP-01246	CM-8305		1927 N.A.	ᅼ	Mapping Unit, AMC, Norfol
STATION NAME	SOURCE OF	AEROTR!- ANGULATION POINT	COORDINATES IN FEET STATE California	GEOGRAPHIC POSITION	REMARKS
		NUMBER	ZONE 3	λ LONGITUDE	
		, L	χ=	φ 38° 04' 17 037"	
Carquinez Strait, Range	Quad 381222 Sta 1187	966150	=ħ	λ 122° 17' 17.535"	
Cardinez Strait. Bande	Ouad 38122	966151	- χ	φ 38° 04' 40.120"	
2, 1932			=ĥ	λ 122° 18' 08,926"	
Mare Island Strait	G-17104	967150	<i>=</i> χ	φ 38° 04' 15 828"	Unadiusted field
Light 1	#822		y=	14' 47	
Mare Tsland Strait	G-17104		#X	φ 38° 04' 10 932"	Unadiusted field
2	#823	967151	=/i	14' 37.	
2MSCO 1949	Quad 381222	916100	-x	φ 38° 03' 29.879"	
	Sta 1056		∂=	λ 122° 14' 34.694"	
MARE IS USN STACK	G-17104		χ=	φ 38° 06' 00.8326"	Unadiusted field
	#824	966140	εĥ	16' 13.	position
			-χ	ф	
			h=	γ	
			=X	φ	
			-h	٧	
			=χ	φ	
			<i>y=</i>	γ	
			χ=	ф	
			y=	~	
COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE
LISTED BY		9/22/86	LISTING CHECKED BY F. Mauldin		DATE 12-17-86
HANG PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE
		SUPERSEDES NO	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	H 1S OBSOLETE.	

COMPILATION REPORT TP-01246

31 - DELINEATION

The majority of this map corresponds to a preliminary map which was compiled by the Pacific Marine Center, Photogrammetric Unit in the summer of 1986. This map as well as the previous preliminary map were compiled from office interpretation of the same 1983 1:30,000 scale color photographs using a Wild B-8 stereo instrument. Tide coordinated infrared ratio photographs dated 1983 for mean high water and 1984 for mean lower low water were provided to assist in interpretation of shoreline and offshore detail. Delineation for this map was primarily the same as the preliminary map; however, some minor revisions were made based on a close comparison with the infrared ratio photographs. Also, additional interior detail was compiled.

All photographs used to compile this map are listed on NOAA form 76-36B. Photo 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 compilation/bridging photographs as described in item #31. There was no mean lower low water line compiled on this map.

36 - OFFSHORE DETAILS

Offshore details were 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 compiled on project CM-7704, sheet TP-00525, at a scale of 1:20,000.

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. Geological Survey Quadrangles:

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

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

Also a comparison was made with a copy of the 1:20,000 scale 1981 final reviewed Class III Map and the 1981 Revision Survey Map of TP-00525, shoreline mapping project CM-7704.

47 - COMPARISON WITH NAUTICAL CHARTS

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

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

18654; 33rd edition; dated January 26, 1985; scale 1:40,000

18655; 52nd edition; dated July 14, 1984; scale 1:10,000

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

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted b

Cartographic Technician

Nov. 21, 1986

Approved:

James L. Byrd, Jr.
James L. Byrd, Jr.

Chief, Coastal Mapping Unit

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8305 (Carquinez Strait & Southern Suisun Bay, CA)

TP-01246

Carquinez Heights
Carquinez Strait
Davis Point
Dutchman Slough
Guadacanal Village
Island No. 1
Mare Island
Mare Island Strait
Napa River

Oleum
San Pablo Bay
Sears Point
Selby
Southern Pacific (RR)
Tormey
Vallejo
Vallejo Heights

Approved:

Charles E. Harrington Chief Geographer Nautical Charting Division

Charting and Geodetic Services

SHORELINE

61 - GENERAL STATEMENT

Final review for this final Class III map was accomplished at the Atlantic Marine Center in January 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 copy of Class III Map. TP-00525, CM-7704, 1:20,000 scale, final reviewed Sept. 1981 and with the 1981 Revision Survey Map TP-00525 compiled from 1981 photographs. Some changes to shoreline and alongshore cultural detail have occurred since the 1981 photography and the 1983/1984 photographs used to compile this map.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the following U.S. Geological Survey Quadrangles: Mare Island, California; dated 1959, photo revised 1980, scale 1:24,000; Benicia, California; dated 1959, 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: 18655, 52nd edition, July 14, 1984, scale 1:10,000 18654, 33rd edition, Jan. 26, 1985, scale 1:40,000

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

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. $\underline{-\text{CM-8305}}$, $\underline{\text{TP-01246}}$

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

In "Remarks" column cross out words that do not apply.
 Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Revie

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification, Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Viz
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Viz
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Vis
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
		<u> </u>	Full Part Before After Verification Review Inspection Signed Vis
			Drawing No.
	·	<u> </u>	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Vis
			Drawing No.
		<u> </u>	
		· · · · · · · · · · · · · · · · · · ·	
			