NOAA FORM 76-35

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. Edition No.
TP-01247
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
CROCKETT

19 ₈₃ TO 19
<u> </u>
REGISTERED IN ARCHIVES
REGISTERED IN ARCHITES
DATE

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY SURVEY	TB01247
(3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TP <u>01247.</u>
	G ORIGINAL MAPEDITI	ои но. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY MAP CLAS	s ĮII(Final)
	REVISED JOB	PH-CM-8305
PHOTOGRAMMETRIC OFFICE	LAST PRECEDING MAP EDI	TION
Coastal Mapping Unit, Atlantic Marine		PH
Center, Norfolk, VA	l 	S
OFFICER-IN-CHARGE	RESURVEY SURVEY D	•
070	D REVISED 19TO 1	9
A. Y. Bryson, CDR		
1. INSTRUCTIONS DATED	,	
1, OFFICE	2. FIELD	
Aerotriangulation November 1, 1984	Control March 9,	1983
Compilation October 2, 1986	Change No. 1 March 16,	1983
	·	
II. DATUMS		
I. HORIZONTAL: A 1927 NORTH AMERICAN	OTHER (Specify)	
I. HORIZONTAL: A 1927 NORTH AMERICAN	<u></u>	
MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL: MEAN LOW-WATER		
MEAN SEA LEVEL		
3. MAP PROJECTION	4. GRID(S)	
Lambert Conformal	STATE ZONE 3	
5. SCALE	STATE ZONE	
1:10,000 SIL HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
I. AEROTRIANGULATION BY	V. McNeel	Nov 1984
METHOD: Analytic LANDMARKS AND AIDS BY	NA	
2. CONTROL AND BRIDGE POINTS PLOTTED BY	N. McNeel	Nov 1984
METHOD: Calcomp 718 CHECKED BY	D. Norman	Nov 1984
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	P. Evans	Nov 1986
COMPILATION CHECKED BY	F. Mauldin, J. Byrd	Nov 1986
INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:10,000 CHECKED BY	NA	
SCALE: 1:10,000 CHECKED BY 4. MANUSCRIPT DELINEATION PLANIMETRY BY	NA	Nov. 1006
CHECKED BY	P. Evans E. Maulding	Nov 1986 Jan 1987
CONTOURS BY	NA NA	10011-1001
METHOD: Smooth drafted CHECKED BY	NA	
SCALE: 1:10,000 HYDRO SUPPORT DATA BY	P. Evans	Nov 1986
CHECKED BY	F. Mauldin	Jan 1987
5. OFFICE INSPECTION PRIOR TO KYELDY Final ReviewBY	F. Mauldin	Jan 1987
6. APPLICATION OF FIELD EDIT DATA	NA	
THECKED BY 7. COMPILATION SECTION REVIEW Class TIT BY	NA Nautain	Tan 1007
8. FINAL REVIEW Class III BY	F. Mauldin J. Hancock	Jan 1987 Jan 1987
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	J. Hancock	July1987
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	P. Dempsey	Sept 1987
1). MAP REGISTERED - COASTAL SURVEY SECTION BY	3. R.KOM	1997

NOAA FORM 76-36A SUPERSEDES FORM C&GS 181 SERIES

♥ U.S. G.P.O. 1972-769382/582 REG.#6

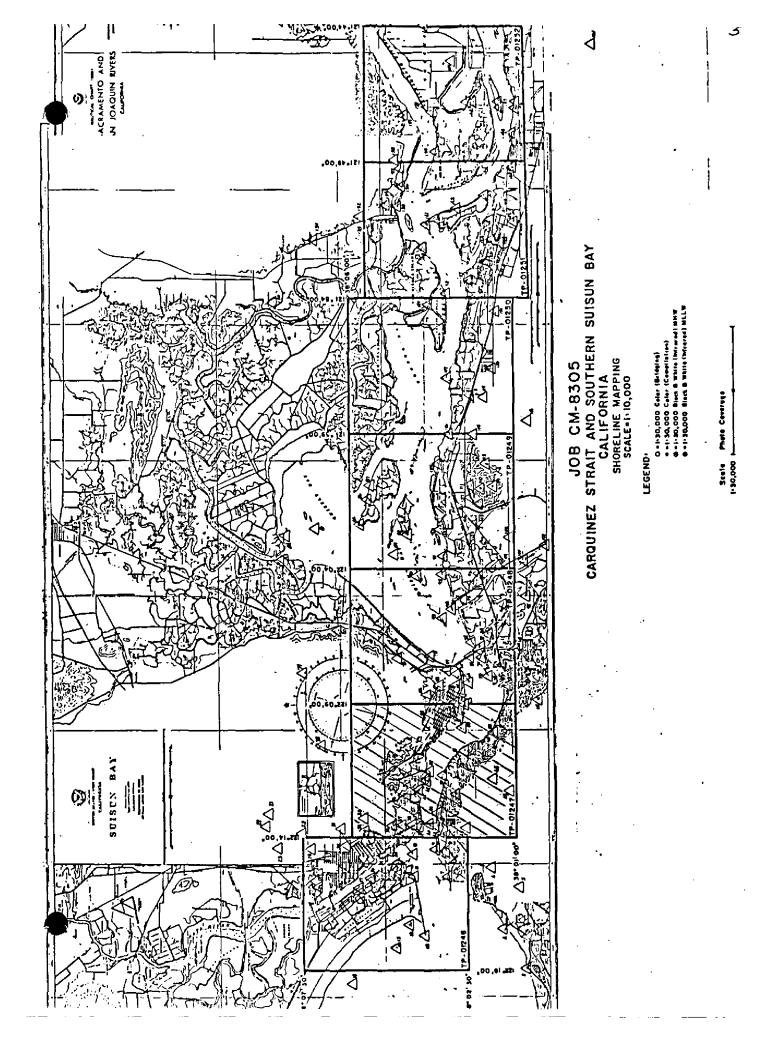
NOAA FORM 76-36B (3-72)	co	TP-01247		NIC AND ATMOSPHER	MENT OF COMMERCE RIC ADMINISTRATION NAL OCEAN SURVEY
. COMPILATION PHOTOGRAPHY CAMERA(S) Wild RC~10(C) (C=88.46mm) IDE STAGE REFERENCE PREDICTED TIDES REFERENCE STATION RECORDS TIDE CONTROLLED PHOTOGRAPHY		(P) PANCHROMATIC MERIDIAN			EFERENCE STANDARD DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE	OF TIDE
83C(C) 0916-0919 * 83C(I) 0989-0991 84C(I) 2209-2211	11=25-83 11-26-83 3-22-84	10:49 10:24 10:29	1:30,000 1:30,000	0.2 feet ab	low MHW ange 5.4 feet
2. SOURCE OF MEAN HIGH-WATE The mean high water l listed compilation/br	R LINE: .ine was compj	lled from of	fice interpr	etation of the	gage e above
3. SOURCE OF MEAN LOW-WATE	R OR MEAN LOWER L	OW-WATER LINE			
There was no mean low	er low water	line compil	ed on this p	roject.	į

4. CONTEMPORARY	HYDROGRAPHIC SU	RVEY\$ (List only those s	urveys that are sources	for photogra	mmetric survey information.)	
SURVEY NUMBER	DATE(\$)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED	
5. FINAL JUNCTIONS						
NORTH	EAST	mp 01340	SOUTH		WEST TP-01246	
None	*TP-0	TP-01248 1057(1:20.000)	None		*TP-00525(1:20,000)	
REMARKS *This large scale manuscript falls within the limits of two previous						
registered project maps, TP-00525 (CM-7704) and TP-01057 (CM-7823).						

NOAA FORM 76-36B

NOAA FORM 76-36 (3-72)		HISTORY OF FIELD		NIC AND ATMOSPHERIC	ENT OF COMMERC C ADMINISTRATIO AL OCEAN SURVE
I. X FIELDXXX	EXTION OP	ERATION (Premarking)FIEL	D EDIT OPERATION		
	0	PERATION		NAME	DATE
1. CHIEF OF FIEI	LD PARTY				
			R. Melby		Mar-May 83
2. HORIZONTAL	CONTROL	RECOVERED BY ESTABLISHED BY	R. Melby		Mar 1983
1. NOMEONIAL	30.11102	PRE-MARKED OR IDENTIFIED BY	R. Melby		Mar 1983
		RECOVERED BY	NA	<u> </u>	Mar 1983
3. VERTICAL CO	NTROL	ESTABLISHED BY	NA .		
		PRE-MARKED OR IDENTIFIED BY	NA		
		RECOVERED (Triangulation Stations) BY	NA		
4. LANDMARKS A	ND	LOCATED (Field Methods) BY	NA		
AIDS TO NAVIG	ATION	IDENTIFIED BY	NA		
		TYPE OF INVESTIGATION			
5. GEOGRAPHIC I		COMPLETE BY	[
INVESTIGATIO	N	SPECIFIC NAMES ONLY			1
		MO INVESTIGATION	-		 -
6. PHOTO INSPEC		CLARIFICATION OF DETAILS BY	None		<u> </u>
7. BOUNDARIES A		SURVEYED OR IDENTIFIED BY	NA		<u> </u>
1. HORIZONTAL		ENTIFIED	2. VERTICAL CON	TROL IDENTIFIED	
	ced (Pane	•			•
PHOTO NUMBER	<u>leu (Pane</u>	STATION: NAME	NA PHOTO NUMBER	STATION DES	I GN A TI ON
83Z(C)4170*	NADEEN	, 1955 (subpoint paneled)	PHOTO NOMBER	JIA HON DES	IGNA IIOA
83Z(C)4170		, 1955 (subpoint alternate			
		identified, see item #8)		•	
	ł		l		
	*Refer t	to Photogrammetric Plot			
	Report	, Item #23	L		
3. PHOTO NUMBE	RS (Clatifica	tion of details)			
None					
4. LANDMARKS A	ND AIDS TO	NAVIGATION IDENTIFIED			
None					
PHOTO NUMBER	<u> </u>	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
]				
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			[
			1		
	L				
5. GEOGRAPHIC N		REPORT NONE	6. BOUNDARY AN	D LIMITS: REPO	RT Y NONE
7. SUPPLEMENTA	L MAPS AND	PLANS			
None					
8. OTHER FIELD	RECORDS (S	ketch books, etc. DO NOT list data submit	ted to the Geodesy D	ivision)	
		ards), 1 Project Field Rep		•	
		Sub Pt. (building corner)		was Astahliched	in April 8
		realized that the premar			
prior to pho					22220304

NOAA FOI (3-72)	RM 76-36D			N	ATIONAL OCEANIC	U. S. DEPARTME AND ATMOSPHERIC	NT OF COMMERCE : ADMINISTRATION
			RECO	TP-01247 RD OF SURVE	Y USE		
I. MANUS	CRIPT COPIES						
	Co	ALIGMO	TION STAGE	s		DATE MANUSCR	IPT FORWARDED
	DATA COMPILED]	DATE	RE	MARK5	MARINE CHARTS	HYORO SUPPORT
Compil	latíon Complete	Jan	1987	Class II	I manuscript	None	None
Final	Review	Jan	1987	Final Cla Map		Aug. 1987	July 1787 Jan 1987
II. LANDA	MARKS AND AIDS TO NAVIGA	ATION					
	ORTS TO MARINE CHART D		N/A NAUTICAL	DATA BRANCH			
NUMBER	CHART LETTER NUMBER ASSIGNED	,	DATE RWARDED		RE	MARKS	
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		1					
2. 🗆	REPORT TO MARINE CHAR	T Divers	ION COAST	DIL OT BRANCH	DATE FORWARDS	0.	
	REPORT TO MERONAUTICA						
III. FEDE	RAL RECORDS CENTER DA	TA			<u> </u>		
t. [⊽]	BRIDGING PHOTOGRAPHS;	: ि√ि1	DUPLICATE	BRIDGING REPO	RT: 🗔 COMPUT	ER READOUTS.	I
	CONTROL STATION IDENT				-72		ı
3. 🗀	SOURCE DATA (except for (ACCOUNT FOR EXCEPTION		ilo Names Re,	port) AS LISTED I	IN SECTION II, NOA	A FORM 76-36C.	
4.	DATA TO FEDERAL RECO	RDS CE	NTER. DAT	E FORWARDED:			_
IV. SURVI	EY EDITIONS (This section :		completed ea		p edition is registere		
SECOND		_ (2)	PH			TYPE OF SURVEY	SURVEY
EDITION	DATE OF PHOTOGRAP	,нү	DATE OF FI	ELD EDIT		MAP CLASS	
	SURVEY NUMBER		JOB NUMBER		<u> </u>	TYPE OF SURVEY	LIFINAL
THIRD	TP	(3)	РН		. □ RI		SURVEY
EDITION	DATE OF PHOTOGRAP	HY	DATE OF FI	ELD EDIT		MAP CLASS	□ FINAL
	SURVEY NUMBER		JOB NUMBER	R		TYPE OF SURVEY	
FOURTH	тр	(4)	PH		. □ et	EVISED RES	IÚR V É Y
EDITION	DATE OF PHOTOGRAP	HY	DATE OF FI	ELD EDIT	.	MAP CLASS	/
					⊟n. □m	. □≀v. □v.	FINAL



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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORTS TP-01247

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 along a portion of Carquinez Strait just beyond the entrance at San Pablo 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(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. The western minute (122° 13.0' to 122° 14.0') of longitude on this map corresponds to a preliminary manuscript which was compiled from the same source data in June 1986 by the Pacific Marine Center, Photogrammetric Unit. Delineation of detail for this common area was basically the same except for three alongshore features which were omitted.

-	LAST NAME "DIE " "	FIRST P.	-	MIDDLE 11		7007	LOCATION	EXTENSION
1	TOPOGRAPHIC SHEET NUMBER	REPORT (4)		HYDROGRAPHIC SHEET NUMBER	REPORT (/)		OTHER	OTHER MATERIAL
	16.01247	2.5				*		
	17. 111.45	`>						
								
12 to 23	Classified Material - Aur certify that the above ized to use the classif	iol - Authorization: above named emi classified materi	al la	al-Authorization: above named employee is author- classified material listed hereon.	NATUREO	F AL	SIGNATURE OF AUTHORIZED OFFICIAL	FPICIAL
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NOAA FC	© NOAA FORM 62-3 (8-72)	VAUL		VAULT MATERIAL RECEIPT	EIPT	ŀ	U, S, DE NOAA-NA	U. S. DEPARTMENT OF COMMERCE NOAA-NATIONAL OCEAN SURVEY
22	PRESCRIBED BY NOS							

INSTRUCTIONS

- 1. PRINT name of Requester, location (room and building) and phone.
- 2. Write Only Consecutive Numbers on this form.
- 3. Use a separate form for requesting Clossified Material, (See 6 below).
- 4. Use blue for Hydrographic surveys and reports, pink for Topographic surveys and reports and white for all other material.
- 5. Copy number 1 (original) for Vault Numerical File must be Signed and dated by Requester. Copy number 2 will be stamped "Conceled" and returned to Requester by Vault when Requester surrenders material.
- Copy number 3 for Vault Alphabetical File.
- 6. For withdrawal of Classified Material check the Classified Material Box and have an authorized official sign the Authorization,

NOAA FORM 62-3 (8-72) SUPERSEDES FORM C & GS-8359

SUMMARY

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-01247

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 Administratio.

National Ocean Service Pacific Marine Center 1801 Fairview Avenue East Seattle, Washington 98102

May 5, 1983

N/MOP222/RBM

T0:

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:

The McNeel
Vic McNeel

Approved and Forwarded:

Don O. Norman

Chief, Aerotriangulation Unit

Don O glass

FIT TO CONTROL

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

STRIP #30-1

	STATION NAMES	POINT NO.	VALUES :	
			<u>_x</u>	<u> </u>
A 1.	Amsco 1949, Sub Point	916101	-2.9	+2.0
	Mare Island Strait Light 1	9 67150	-0.8	+0.5
	Mare Island Strait Light 2	967151	+1.1	+1.9
	Nadeen 1955, Sub Point Panel	917101	+1.2	
	Nadeen 1955, Sub Point Alt.	917102	+0.4	-0.7
2 .	Carquinez Strait Light 20	9 69150	+0.7	-1.2
	Carquinez Strait Light 22	969151	-1.8	+1.4
	Carquinez Strait Light 23	97015 0	-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.	320100	-1.0	13.0
	River Water Tank, 1950	928141	-0.4	+7.4
	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

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STRI	P #3U-ZA				
	San Joaquin River Lt. 24	933151	+1.9	+1.0	
● 8.	San Joaquin River Lt. 25	939150	+2.2 -1.1	+1.4 +0.6	
- 0.	San Joaquin River Lt. 26	939151			
●9.	San Joaquin River Lt. 29 Tie From Strip #30-1	939154 933801	-1.8 +2.3	-0.7 -2.9	
1 0.	Tie From Strip #30-1	933802	+0.8	-2.3	
— 10.	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	940151	-4.1	+0.1	
	Channel Lt. 17 Tie From Strip #30-1	930801	+6.4	-3.1	
= 12	Tie From Strip #30-1	930802	+4.6	-0.2 -1.0	
48 12.	Tie From Strip #30-1	93 080 <u>3</u>	+4.4		
	Tie From Strip #30-1	926801	-1.6	+0.3	
	Tie From Strip #30-1	926 802	-0.3	+1.0	
1 3.	Tie From Strip #30-1	926803	-1.0	+1.2 +4.8	
1 3.	Tie From Strip #30-1	924801	-0.8		
	Tie From Strip #30-1	924802	-3.2	+1.8	
1 14.	Tie From Strip #30-1	924803	-1.7	+3.1 -0.2	
E 17.	Tie From Strip #30-1	922801	+0.1	+0.3	
	Tie From Strip #30-1	922 802	0.0	₹0.5	
1 5.	Tie From Strip #30-1	922803	+1.0	-2.6 -0.7	
— 13.	Tie From Strip #30-1	922804	+2.5	-3.3	
	Tie From Strip #30-1	922805	+2.2	-3.3 -4.0	
	Tie From Strip #30-1	922806	-0.4	-4.0	
STR	IP #30-2B		-		
	Tie From Strip #30-1	920801	-2.1	-1.4	
	Tie From Strip #30-1	920 802	-2.8	-0.2	
	Tie From Strip #30-1	920803	-4.1	-5.1	
● 16.	. Green House, West Gable, 1939	9 52110	+0.6	+0.7	
_		919801	-0.7	-2.0	
1 7.	. 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	
	Tie From Strip #30-1	J, JOU.			

■ 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
STRI	P #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 Tie From Strip #30-1 Tie From Strip #30-1 Tie From Strip #30-1 Mare Island Strait Lt. 1	916101 916801 916802 916803 967150	-1.4 +0.5 +1.4 +0.7 +1.9	
▲ 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 Nadeen 1955, Sub Pt. Alt. Carquinez Strait Lt. 22 Carquinez Strait Lt. 23	917101 917102 969151 970150	+0.6 +0.5 -1.6 -0.7	

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RATIO VALUES

CM-8305

1:30,000 Bridging Photographs

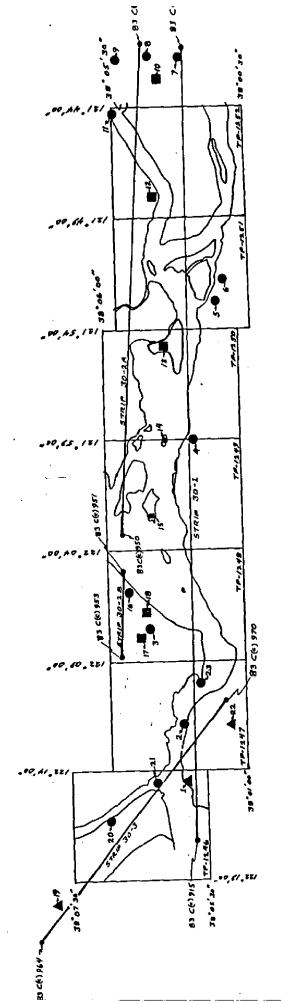
	<u>Ratio Value</u>
83-C(C) 915-933	3.125
938-950	3.124
951-953	3.128
964-965	3.120
966-967	3.127
968	3.142
969	3.036
970	3.072

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

IUC

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 1:39,000 SCALE

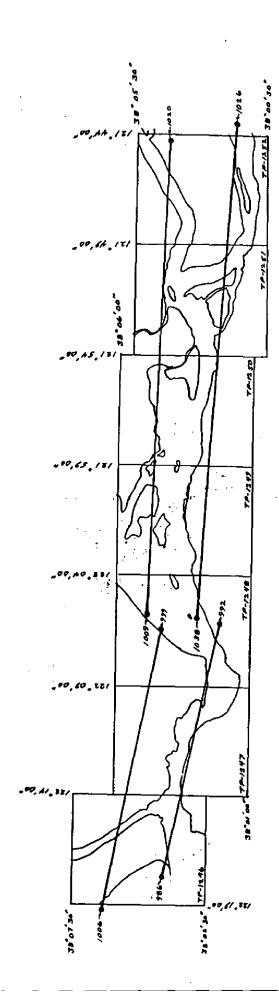
HORIZONTAL CONTROL A

A = MNISE STRICUS

• = OTHER POSITIONS

JOB CM-8305
CARQUINEZ STRAIT AND SOUTHERN SUISUN BAY
CALIFORNIA
SHORELINE MAPPING
SCALE-11-10-000

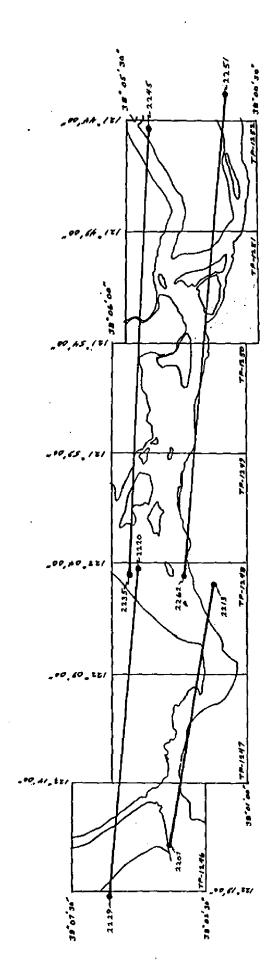
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JOB CM-8305
CARQUINEZ STRAIT AND SOUTHERN SUISUN BAY
CALIFORNIA
SHORELINE MAPPING
SCALE-11 10,000

MHW BLACK AND WHITE INFRACED PHOTOGRAPH.

83 C (R) 1:30,000 SCALE



JOB CM-8305
CARQUINEZ STRAIT AND SOUTHERN SUISUN BAY
CALIFORNIA
SHORELINE MAPPING
SCALE-1110,000

84 C (R) 1:30,000 SCALF

MILLU BLACK AND WAITS INFARED PHOTOG

NOAA FORM 41				ľ	U.S. DE	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
	i	DESCRIPTIV	CRIPTIVE REPORT CONTROL RECORD			
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINA	ORIGINATING ACTIVITY	
TP-01247	CM-8305		1927 N.A.	Coastal	1 Mapping	Unit, AMC, Norfol
		AEROTRI-	COORDINATES IN FEET	(U		
STATION NAME	INFORMATION (Index)	ANGULATION POINT NUMBER	STATE California	\$ LATITUDE \$\lambda \text{LONGITUDE}\$	· ·	REMARKS
	G-17104	1	'1	1 -		Unadjusted field
Carquinez Strait Light 23	#8T/	0510/6	ή=	1220 091 58 952"		position
Carquinez Strait Light 20	G-17104		<i>=</i> X	03, 1		מיים הייים איייה איייה איייה איי
	#814	969150	-ĥ	λ 122° 11' 40.238"		position
	80121 2		χε	\$ 38° 02' 55 991"	·	Unadiusted field
carquinez strait hight 22	#816	969151	y=	122° 10' 57.428"		position
Napole 1955	C:134 381223	017100	X= 1,511,370.89	\$ 38°-01' 44_356!!		Recovered
	Sta 1121	221.17	y= 561,141.20	λ 122° 11' 47.34	342"	
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,				φ		
			y=	γ		
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COMPUTED BY		DATE	COMPUTATION CHECKED BY			DATE
LISTED BY B. R. Kravitz		DATE 9/23/86	LISTING CHECKED BY F. Mauldin			DATE 1-7-86
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY			DATE
		SUPERSEDES NO	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	H IS OBSOLETE.		

COMPILATION REPORT

TP-01247

31. DELINEATION:

Delineation was accomplished using 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 compilation/bridging 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 projects CM-7704, TP-00525, and CM-7823, TP-01057, 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.G.S. Quadrangle, Benicia, California; dated 1959, photo revised 1980; scale 1:24,000 Class III Shoreline Map, TP-00525; CM-7704; scale 1:20,000 Class III Shoreline Map, TP-01057; 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 18655; 52nd edition; dated July 14, 1984; scale 1:10,000 18657; 12th edition; dated November 24, 1984; scale 1:10,000 18654: 33rd edition: dated January 26, 1985; scale 1:40,000

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted2b

Paul L. Evans, Jr.

Cartographic Technician December 4, 1986

Approved:

James L. Byrd, Jr.

Chief, Coastal Mapping Unit

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP-01247

Benicia Benicia Point Carquinez Strait Commodore Jones Point Crockett Dillon Point Eckley Elliot Cove Glencove Glen Cove

Morrow Cove Nevada Dock 0zo1 Point Carquinez Port Costa Semple Point Southampton Bay Southern Pacific (RR) Valona

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. A copy of registered Class III map TP-01057, 1:20,000 scale, CM-7823, which junctions with CM-7704, was also compared.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the following U.S. Geological Survey Quadrangle: 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 18657, 12th edition, Nov. 24, 1984, scale 1:10,000 18654, 33rd edition, Jan. 26, 1985, scale 1:40,000 18656, 46th edition, Jan. 19, 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. CM-8305, TP-01247

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 Revie

CHART	DATE CARTOGRAPHER		REMARKS	
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FORM CBGB-8382 SUPERSEDES ALL EDITIONS OF FORM CBGS-875.

USCOMM-DC 6888-P62