

TP-01053

TP-01053

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey *Shoreline (Photogrammetric)*.....

Job No. *CM-7823*..... Map No. *TP-01053*.....

Classification No. *III*..... Edition No. *1*.....

This map will not be field edited.

LOCALITY

State *California*.....

General Locality *Suisun Bay*.....

Locality *Suisun and Montezuma Sloughs*.....

19 79 TO 19

REGISTRY IN ARCHIVES

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

RS 18656 applied 3-20-83 P.S

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		SURVEY TP. 01053 MAP EDITION NO. (1) MAP CLASS III JOB PH. CM-7823	
DESCRIPTIVE REPORT - DATA RECORD							
PHOTOGRAMMETRIC OFFICE Photogrammetry Division (Rockville)				LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED			
OFFICER-IN-CHARGE Walter S. Simmons				JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__			
I. INSTRUCTIONS DATED							
1. OFFICE AEROTRIANGULATION - Job CM-7823, 3/28/80 OFFICE - Job CM-7823, 7/7/80				2. FIELD FIELD - Job CM 7823, Sacramento and San Joaquin Rivers, California 2/6/79			
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 checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify) National Geodetic Vertical Datum, 1929			
3. MAP PROJECTION Lambert Conformal Conic				4. GRID(S) STATE California ZONE II			
5. SCALE 1:20,000				STATE ZONE			
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY				B. Thornton		May 5, 1980	
METHOD: Analytic (Block) LANDMARKS AND AIDS BY				NA			
2. CONTROL AND BRIDGE POINTS PLOTTED BY				Rodney Cauthorne		May 30, 1980	
METHOD: Calcomp Plotter CHECKED BY				NA			
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				W. Maynard		July 21, 1980	
COMPILATION CHECKED BY				B. Baldwin		" " "	
INSTRUMENT: WILD B-8 (CAPS) CONTOURS BY				NA			
SCALE: 1:20,000. CHECKED BY				NA			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				Wm. Maynard		Aug. 8, 1980	
CHECKED BY				B. Baldwin		Aug. 12, 1980	
METHOD: Smooth Drafting CONTOURS BY				NA			
CHECKED BY				NA			
SCALE: HYDRO SUPPORT DATA BY				NA			
CHECKED BY				NA			
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				Gregory Fromm		Sept. 1980	
6. APPLICATION OF FIELD EDIT DATA BY				Field Edit Canceled			
CHECKED BY				NA			
7. COMPILATION SECTION REVIEW BY				Gregory Fromm		Sept. 1980	
8. FINAL REVIEW BY				Robert W. Rodkey, Jr.		Mar. 1981	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				Robert W. Rodkey, Jr.		June 1981	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				Gregory Fromm		Oct. 1981	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				H. D. Wolfe		Jan 1982	

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

COMPILATION SOURCES

TP-01053

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8(E) Focal Length = 152.71 MM		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Pacific	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 120th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
79 E(P) 5820-5824	5/2/79		1:60,000	NA	
79 E(C) 5003-5005	4/1/79		1:20,000	NA	
79 E(I) 5420R-5423R	4/7/79	1036-1037	1:50,000	Refer to the following page, Form 76-36B(1) for tidal information.	
5513R-5516R	4/28/79	1523-1525	1:50,000		
79E (I) 5089R-5090R	4/1/79	1206-1209	1:50,000		
5094R-5095R	4/1/79	1217-1218	1:50,000		

REMARKS The panchromatic and infrared photographs were ratioed for use in graphic compilation and to supplement the base compilation.

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the mean high water line is the infrared photography listed under Item 1, of this page. Refer to paragraph #35, of the Compilation Report bound with this Descriptive Report.

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

The source of the mean lower low water line is the infrared photography listed under Item 1, of this page. Refer to paragraph #35, of the Compilation report bound with this Descriptive Report.

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 No Contemporary Survey	EAST No Contemporary Survey	SOUTH TP-01057, TP-01058	WEST No Contemporary
REMARKS			

NOAA FORM 76-36B(1)
(7-75)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

TIDE - COORDINATED PHOTOGRAPHY

TP - 01053

LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE (In Feet)	MEAN RANGE (In Feet)
Suisan Slough to Fairfield; Montezuma Slough to Beldons Landing 79E(I) 5420R-5423R	* Montezuma Bridge (941-5402)	-0.02 MHW	Not available
Beldons Landing (Montezuma Slough) East to Nurse Slough; North to Denverton 79E(I) 5513R-5515R	* Montezuma Bridge (941-5402)	-0.50 MHW	Not available
Suisan Slough to Fairfield; Montezuma Slough to Beldons Landing 79E(I) 5089R, 5090R	* Montezuma Bridge (941-5402)	-0.05 MLLW	Not available
Beldons Landing Montezuma Slough East to Nurse Slough; North to Denverton 79E(I) 5094R, 5095R	* Montezuma Bridge (941-5402)	-0.09 MLLW	Not available

REMARKS:

* Tide station in operation at the time of photography is temporary.

Tidal information was furnished by the Tides and Water Level Division (C23)
and the Surveys Planning Branch (C344).

HISTORY OF FIELD OPERATIONS

TP-01053

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Robert B. Melby	May 1979
2. HORIZONTAL CONTROL	RECOVERED BY NA ESTABLISHED BY NA PRE-MARKED OR IDENTIFIED BY NA	
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	NA
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY NA	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED None		2. VERTICAL CONTROL IDENTIFIED None	
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: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) NOAA Form 76-77 (3 Books), NOAA Form 77-53 (2 Books) NOAA Form 76-53 (6 Cards), NOAA Form 75-82A (9)			

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

RECORD OF SURVEY USE

TP-01053

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline Map	Oct. 1980	Class III, Shoreline Map Field Edit Canceled		
Final Review	Mar. 1981	Class III Map Field Edit Canceled	Oct. 15., 1981	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

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: 10/30/81

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

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

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-01053, TP-01057, TP-01058, TP-01059

These maps cover the shoreline area east of San Pablo Bay, California and includes Suisan Bay from Carquinez Strait eastward to the Sacramento and San Joaquin Rivers.

The purpose of the job is to provide support for future hydrographic survey operations and chart maintenance.

Field operations, which began in February 1979, generally consisted of the premarking, recovery, and identification of horizontal control necessary for the aerotriangulation process.

Aerotriangulation photography was furnished at 1:60,000 scale from panchromatic film taken in May 1979 with the RC-8 (E) camera. Tide coordinated black-and-white infrared photography was taken in April 1979 with the RC-8(E) camera at 1:50,000 scale. Supplemental natural color photography was flown in April 1979 at 1:20,000 scale using the RC-8 (E) camera.

Three strips of 1:60,000 scale panchromatic photography were bridged by analytic aerotriangulation methods. The tide-coordinated black-and-white infrared photography was ratioed from the bridging photography to ensure proper scale for compiling.

Compilation of the map was accomplished through graphic and instrument techniques. All cultural features as well as image points for controlling the ratioed tide-coordinated black-and-white infrared photography were compiled on the Wild B-8/CAP System utilizing the 1:60,000 scale bridged panchromatic photography. The mean high water and mean lower low water lines were compiled graphically utilizing the appropriate ratioed tide-coordinated black-and-white infrared photography.

All map line work is smooth compilation drafting.

Field Edit operations were canceled by memo in June 1981.

Final review of the map was performed by Quality Control, Photogrammetric Branch, Rockville, Maryland. The map is registered as a Class III map.

This map complies with the project instructions and meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

This Descriptive Report contains all pertinent reports and listings of all data used to the completion of this map.

This Job CM-7823 was planned to provide twenty 1:20,000 scale maps. Part I of CM-7823 comprises four maps; TP-01053, TP-01057, TP-01058, and TP-01059 at 1:20,000 scale. Photography to complete Part I was taken in 1979.

Compilation photography to complete the remainder of job CM-7823, or part of, is scheduled to be taken in FY 1982. Subsequent instructions will be issued at this time.

Duplicate bridging contacts and film positives of strips 1, 2, and 3 covering the junctions of TP-01053 to TP-01054 and TP-01059 to TP-01060 were ordered. Bridged points were transferred from the original to the duplicate film copies, using the PUG point transfer device. This will provide horizontal control tie between the above maps when the remainder of this job or parts of is scheduled for mapping.

Bridging photography used for completing Part I will be forwarded along with other data to the Federal Records Center. The remaining bridging photography and a horizontal position listing of the transferred points will be held in the Quality Control Group, OA/C3421 and used to complete future photogrammetric mapping operations of Job CM-7823.



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SURVEY
Pacific Marine Center
1801 Fairview Avenue East
Seattle, WA 98102

09

May 24, 1979

Field Operations Report:

Projects CM-7704: San Pablo Bay, California
CM-7823: Sacramento and San Joaquin Rivers, California

These two projects are a combined photo-field operation that commenced with on site field activities, beginning on the 28th of February 1979.

Project CM-7823 required the photo-paneling of pre-selected horizontal control stations prior to the flying of the aerial photography. All panels were in place and ready for photography by the designated date.

Project CM-7704 did not require photo-paneling of the horizontal control as this had been accomplished during the 1977 field season.

Both projects required tide-controlled photography.

Horizontal Control:

The designated, existing horizontal control was paneled in accordance with the project instructions, except one station that was destroyed. It was replaced with station GOODYEAR 2 and paneled.

A number of the offshore aids to navigation were positioned by triangulation intersection station methods. The location of these aids was not required by the project instructions. Some of the aids are charted as "PA" positions and others were used by a PMC vessel engaged in hydrographic surveys as electronic control or calibration sites. Future hydrographic surveys will no doubt utilize other stations as located for the same purpose.

Tide-Coordinated Photography:

Tide-coordinated photography was flown on both projects by the NOS Air Photo Mission.

Personnel of the NOS California Tides Party manned the tide stations in the San Pablo Bay area. PMC Photo Party personnel manned the tide stations in the Suisun Bay area. The tide staffs were monitored at 15-minute intervals and relayed by radio to the Air Photo Mission when requested.



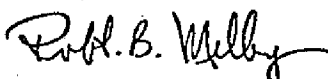
Existing tide staffs were used and were releveled after the final tide-coordinated photography was flown.

During several of the tide-controlled flights on the weekends, the staffs were not manned. However, recording tide gages were in operation at several sites and the required tidal data should be available from the Tides Section in Rockville, MD.

Inclement weather, not conducive to aerial photography, was a factor in prolonging the field project. The automobile gasoline shortage was noticeable, but it did not adversely affect or hamper the field operations.

All photo-panels were removed after the aerial bridging photography was flown, except station DEL GRANDE 1954. This panel was removed by a weed-control crew on 4/18/79, according to a nearby property owner. Its image should appear on the first-attempted bridging flight.

Respectfully submitted,



Robert B. Melby
Chief, PMC Photo Party, CPM133

Photogrammetric Plot Report
Sacramento and San Joaquin Rivers California - CM-7823
May 5, 1980

21. Area Covered

The area covered by this report extends from the Sacramento River at San Pablo Bay eastward to the San Joaquin River. The area is covered by four 1:20,000 scale sheets; TP-01053, and TP-01057 through TP-01059. The 4 sheets required for this project are part of a major project area consisting of an additional 10 sheets; TP-01051, TP-01052, TP-01054 through TP-01056, and TP-01060 through TP-01064.

The additional 10 sheets have not yet been assigned to our section.

22. Method

Three strips of 1:60,000 scale black-and-white photography were bridged by analytic aerotriangulation methods. The center strip was controlled by field identified control. The 2 side flight lines were controlled entirely by tie points. The tide controlled photography was ratioed from the bridging photography to ensure proper scale for compiling.

23. Adequacy of Control

Control checked well within map accuracy standards and is more than sufficient for its intended use. See attached sheet for accuracy of control in the strip adjustment.

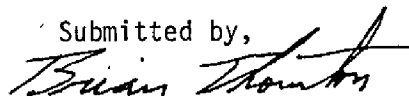
24. Supplemental Data

USGS quadrangles were used to provide vertical control for the adjustment.

25. Photography

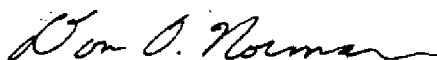
The coverage, overlap, and quality of the photography was adequate for the job.

Submitted by,



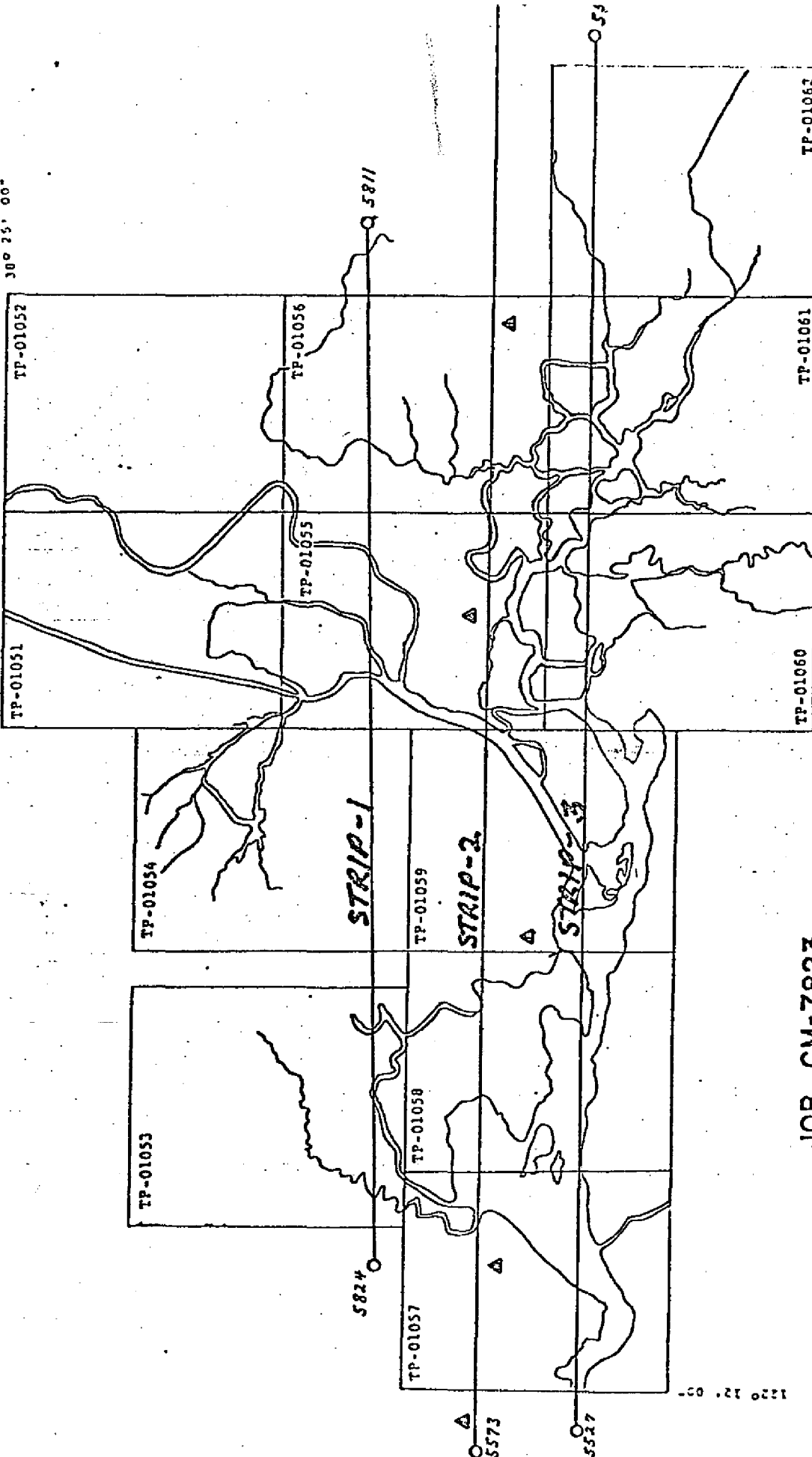
Brian Thornton

Approved and Forwarded:



Don O. Norman
Chief, Aerotriangulation Section

30° 25' 00"



JOB CM-7823

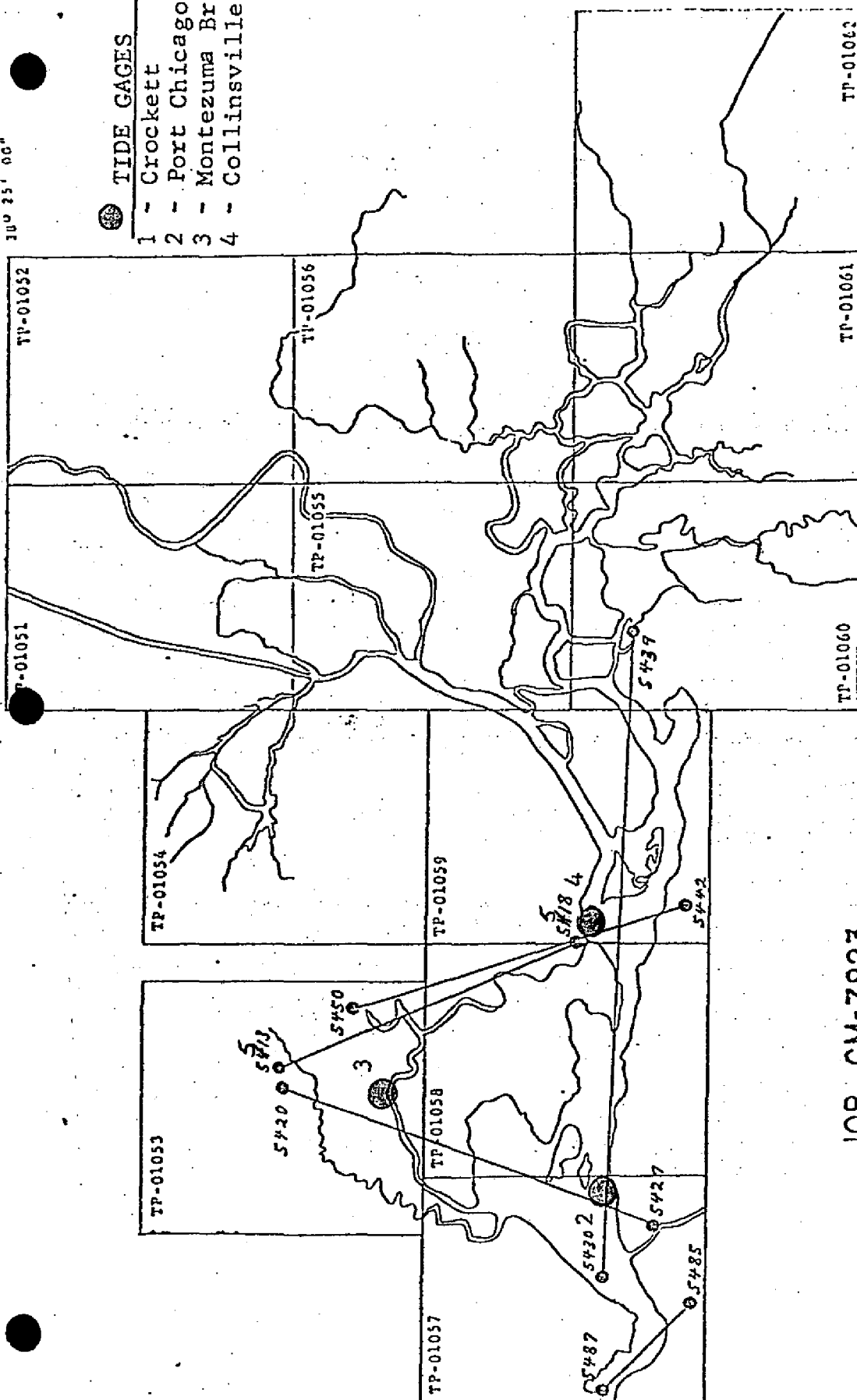
SACRAMENTO AND SAN JOAQUIN RIVERS
CALIFORNIA
SHORELINE MAPPING - SCALE 1:20,000

0 79EP 1:60000 bridging photography

“00, 52 07E

TIDE GAGES

- 1 - Crockett
2 - Port Chicago
3 - Montezuma Bridge
4 - Collinsville



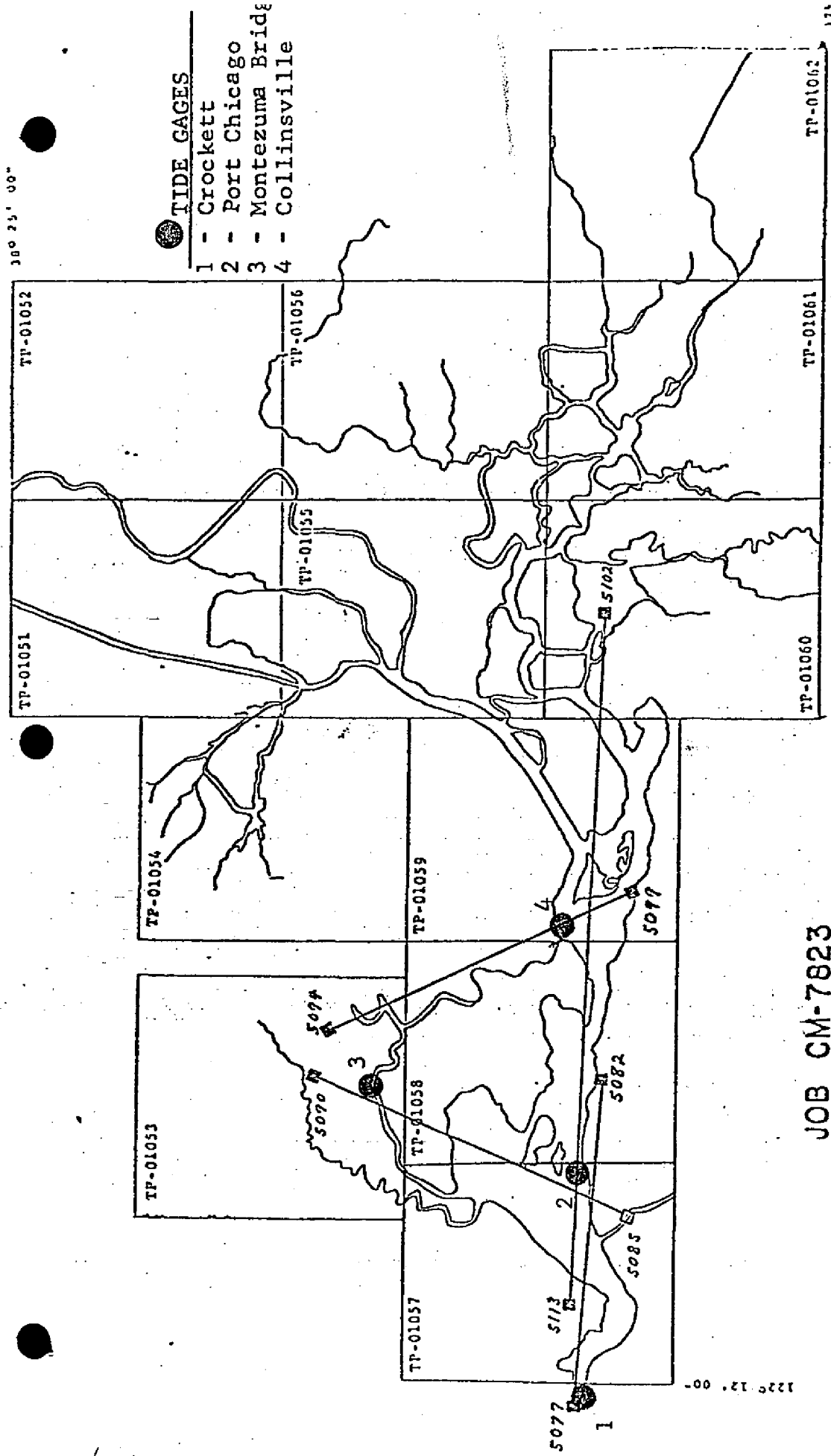
JOB CM-7823

**SACRAMENTO AND SAN JOAQUIN RIVERS
CALIFORNIA**

SHORELINE MAPPING - SCALE 1:20,000

79ER 1:50000 MHW

30° 25' 00"



TIDE GAGES

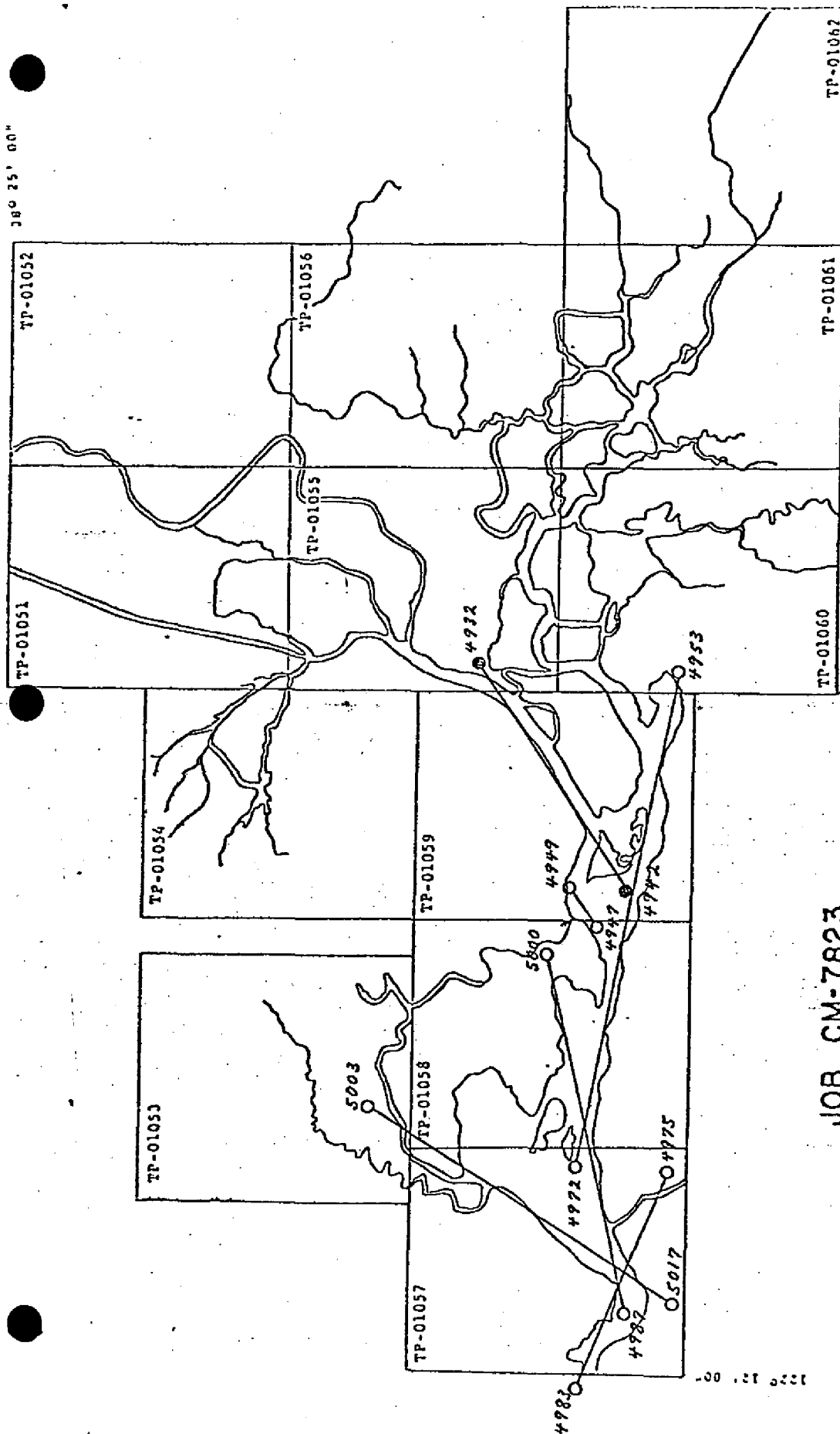
- 1 - Crockett
- 2 - Port Chicago
- 3 - Montezuma Bridge
- 4 - Collinsville

JOB CM-7823

**SACRAMENTO AND SAN JOAQUIN RIVERS
CALIFORNIA**
SHORELINE MAPPING - SCALE 1:20,000

□ 79ER 1:50000 MLLW

38° 25' 00"



JOB CM-7823

SACRAMENTO AND SAN JOAQUIN RIVERS
CALIFORNIA

SHORELINE MAPPING - SCALE 1:20,000

79EC 1:20000

Accuracy of Control

Pt. #	X-Error	Y-Error
552101	0.253	-0.248
556101	-0.722	0.940
560101	0.388	-0.648
564100	0.880	-1.232
570101	-1.071	2.540
572101	0.146	-1.337

CM 7823
SACRAMENTO RIVER, CALIF.

LISTING OF RATIO VALUES

EXPOSURES

RATIO

79-EP-5527 thru 5537	2.954X
5561 thru 5573	2.959X
5820 thru 5824	3.079X

EXPOSURES

R A T I O

79-ER-5077 thru 5082	2.513X
5085 thru 5090	2.510X
5094 thru 5099	2.517X
5102 thru 5113	2.503X
5420 thru 5427	2.549X
5430 thru 5439	2.537X
5442 thru 5450	2.542X
5485 thru 5487	2.468X
5513 thru 5518	2.446X

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS
					STATE	ZONE	ϕ LATITUDE	λ LONGITUDE	
TP-01053		FAIR FIELD AIR FORCE STATION WEST WATER TANK, 1961	381213	157	X=		ϕ 38-15-19.493		
			Sta. 1107		Y=		λ 121-57-30.545		
		FAIR FIELD MUNICIPAL WATER TANK 1932	381222	158	X=		ϕ 38-14-48-104		Recovered 1977
			Sta. 1219		Y=		λ 122-03-05.079		
		KIRBY 1922	381213	154	X=		ϕ 38-10-03.336		Recovered 1977
			Sta. 1037		Y=		λ 121-55-10.801		
		ALEXANDERS BARN	381213	153	X=		ϕ 38-10-31.403		Recovered 1977
		VENT 1932	Sta. 1084		Y=		λ 121-57-47.558		
		MONTEZUMA SLOUGH NORTH TRANSMISSION TOWER 1922	381222	162	X=		ϕ 38-10-14-10		Not shown on map
			Sta. 1265		Y=		λ 122-01-26.96		
		SUISUN SLOUGH EAST POWER POLE	381222	163	X=		ϕ 38-10-41.11		Not shown on map
			Sta. 1363		Y=		λ 122-03-22.98		
					X=		ϕ		
					Y=		λ		
					X=		ϕ		
					Y=		λ		
					X=		ϕ		
					Y=		λ		
					X=		ϕ		
					Y=		λ		
COMPUTED BY					COMPUTATION CHECKED BY				DATE
LISTED BY					LISTING CHECKED BY				DATE
HAND PLOTTING BY					HAND PLOTTING CHECKED BY				DATE

Compilation Report

TP-01053

31. Delineation

Compilation of this map was accomplished through graphic and instrument techniques. All cultural features as well as image points for controlling the infrared photography were compiled on the Wild B-8/CAP System utilizing the panchromatic photography. The mean high water and mean lower low water lines were compiled graphically utilizing the appropriate tide-coordinated infrared photography.

32. Control

Refer to the Photogrammetric Plot Report bound with this Descriptive Report.

The identification, density, and placement of horizontal and vertical control was adequate.

33. Supplemental Data

Tidal information was furnished by the Tides and Water Level Division (C23) and the Surveys Planning Branch (C344).

34. Contours and Drainage

All drainage is from office interpretation of panchromatic photography, supplemented by the infrared photography.

No contours were compiled on this manuscript.

A comparison of drainage features was made to those depicted on existing nautical charts and quads. No significant changes could be noted. In lieu of portraying all canals and drainage ditches, dikes and roads on dikes were delineated because of the density of detail. This was done to provide control for possible future surveys.

35. Shoreline and Alongshore Details

There was no preliminary field inspection of the shoreline.

The mean high and mean lower low water lines were compiled by office interpretation of tide-coordinated infrared photography.

Alongshore and foreshore features were compiled by office interpretation of panchromatic photography, supplemented by natural color photography where coverage was available.

36. Offshore Detail

No unusual problems were encountered in compiling details offshore.

37. Landmarks and Aids

No Form 76-40 is bound with this Descriptive Report. No charted landmarks and/or aids exist within the limits of this manuscript. Refer to Item 41. of this report.

38. Control for Future Surveys - Inapplicable

39. Junctions

Refer to Form 76-36B, Item 5 of this Descriptive Report.

40. Horizontal and Vertical Accuracy

This map compiles with the National Standards of Map Accuracy.

41. Map Features of Possible Landmark Value

For the identification and position of map features of possible landmark value, refer to the listing bound with this Descriptive Report.

42. thru 45. - Inapplicable

46. Comparison with Existing Maps

A comparison was made with the following USGS quadrangles:

Fairfield South, Calif., 1:24,000 scale, 1949, Photorevised in 1968
Denverton, Calif., 1:24,000 scale, 1953, Photorevised in 1968 and 1973

No significant differences were noted.

47. Comparison with Nautical Charts

A comparison was made with the following charts:

18656, Suisan Bay, 1:40,000 scale, 41st Edition, 1/6/79
18652, San Francisco Bay to Antioch, Page D, 1:40,000 scale, 17th Edition, 2/25/78

3

Items to be applied to Nautical Charts immediately - None

Items to be carried forward - None

Submitted by,

William M. Maynard

William M. Maynard

Approved and Forwarded:

John A. Murney Jr. for
George M. Ball
Chief, Special Projects Section

Review Report
TP-01053
Shoreline (Photogrammetric)
March 1981

61. General Statement

Refer to "Summary to Accompany Descriptive Report" for general information in regards to the completion of this map.

62. Comparison with Registered Topographic Surveys

The geographic area covered by this map was mapped in 1941 at a scale of 1:10,000. Since nearly thirty (30) years have lapsed, no comparison between this map and those prior surveys were made.

63. Comparison with Maps of Other Agencies

Refer to the Compilation Report, Item 46, for information on this subject.

64. Comparison with Contemporary Hydrographic Surveys

There is no contemporary hydrographic survey for the geographic area covered by this map. Prior surveys were completed in 1867 and 1887; therefore, a comparison was not made.

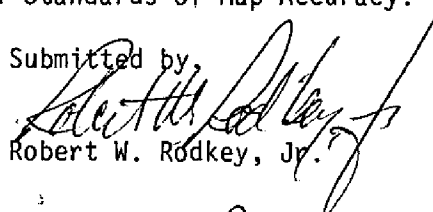
65. Comparison with Nautical Charts

Refer to the Compilation Report, Item 47, for information of this subject.

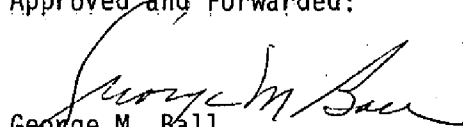
66. Adequacy of Results and Future Surveys

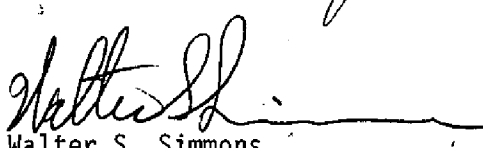
This map complies with the project instructions and meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted by,


Robert W. Rodkey, Jr.

Approved and Forwarded:


George M. Ball
Chief, Photogrammetric Branch


Walter S. Simmons
Chief, Photogrammetry Division

9/15/80

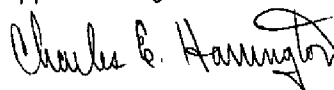
GEOGRAPHIC NAMES
FINAL NAME SHEET
CM-7823 (Sacramento River, California)

TP-01053

Beldons Landing
Boynton Slough
Bradmoor Island
Cat Slough
Chadbourne Slough
Cross Slough
Cutoff Slough
Deadman Island
Denverston
Denverston Slough
Duck Slough
Fairfield
First Mallard Branch
Frost Slough
Grizzly Island
Hasting Slough

Hill Slough
Joice Island
Little Honker Bay
Luco Slough
Montezuma Slough
Nurse Slough
Peytonia Slough
Rush Landing
Second Mallard Branch
Sheldrake Slough
Southern Pacific (RR)
Suisun City
Suisun Slough
Tree Slough
Volanti Slough
Wells Slough

Approved by:



Charles E. Harrington
Chief Geographer, C3x5

MAP FEATURES OF POSSIBLE LANDMARK VALUE				PHOTOGRAMMETRY RWR 3/81	24
MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY		
TP-01053	CM-7823	1927 North American	Photogrammetry Division Rockville, Maryland		
DESCRIPTION	PHOTO NUMBER	PLANE COOR. (FT) STATE <u>CALIF.</u> ZONE <u>II</u>	GEOGRAPHIC POS. Ø LATITUDE λ LONGITUDE		
Tower(power)	79E(P) 5822	X 1,992,575.008	Ø 38-14-00.71		
	79E(P) 5823	Y 206,448.303	λ 122-01-33.05		
Tower(power)	ditto	X 1,991,866.962	Ø 38-13-59.10		
		Y 206,285.198	λ 122-01-41.92		
Tower(power)	ditto	X 1,990,193.566	Ø 38-13-55.64		
		Y 205,935.468	λ 122-02-02.89		
Tower(power)	ditto	X 1,989,520.241	Ø 38-13-54.18		
		Y 205,788.538	λ 122-02-11.33		
		X	Ø		
		Y	λ		
		X	Ø		
		Y	λ		
		X	Ø		
		Y	λ		
		X	Ø		
		Y	λ		
		X	Ø		
		Y	λ		
		X	Ø		
		Y	λ		
		X	Ø		
		Y	λ		
		X	Ø		
		Y	λ		
		X	Ø		
		Y	λ		
		X	Ø		
		Y	λ		
		X	Ø		
		Y	λ		
		X	Ø		
		Y	λ		
		X	Ø		
		Y	λ		
LISTED BY Brian Baldwin		DATE 3/18/81	PHOTOGRAMMETRIC POSITIONS		
LISTING CHECKED BY Robert Rodkey		DATE 3/19/81			

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-01053

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]