TP-01057

TP-01057

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-01057

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

This map will not be field edited

## LOCALITY

*State* California

*General Locality* Suisun Bay

*Locality* Carquinez Strait to Ryer Island

19 79 TO 19

## REGISTRY IN ARCHIVES

DATE

(76-40 forms) copies sent to CG Hdqtrs and 12th CG Dist (Chief Tides) 8-30-82 KDS

☆ U.S. GOVERNMENT PRINTING OFFICE: 1973-761-775

NOAA FORM 76-36A (3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

# DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY
- [x] ORIGINAL
- [ ] RESURVEY
- [ ] REVISED

SURVEY TP- 01057
MAP EDITION NO. (1)
MAP CLASS III
JOB PH- CM-7823

PHOTOGRAMMETRIC OFFICE
Photogrammetry Division (Rockville)

OFFICER-IN-CHARGE
Walter S. Simmons

LAST PRECEEDING MAP EDITION

TYPE OF SURVEY
- [ ] ORIGINAL
- [ ] RESURVEY
- [ ] REVISED

JOB PH-
MAP CLASS
SURVEY DATES:
19__ TO 19__

## I. INSTRUCTIONS DATED

| 1. OFFICE | 2. FIELD |
|---|---|
| AEROTRIANGULATION - Job CM-7823, 3/28/80<br>OFFICE - Job CM-7823, 7/7/80 | FIELD - Job CM-7823, Sacramento and San Joaquin Rivers, Californa - 2/6/79 |

## II. DATUMS

| | | |
|---|---|---|
| 1. HORIZONTAL: | [x] 1927 NORTH AMERICAN | OTHER (Specify) |
| 2. VERTICAL: | [x] MEAN HIGH-WATER<br>[ ] MEAN LOW-WATER<br>[x] MEAN LOWER LOW-WATER<br>[ ] MEAN SEA LEVEL | OTHER (Specify)<br>National Geodetic Vertical Datum, 1929 |
| 3. MAP PROJECTION<br>Lambert Conformal Conic | | 4. GRID(S)<br>STATE: California<br>ZONE: II |
| 5. SCALE 1:20,000 | | STATE<br>ZONE |

## III. HISTORY OF OFFICE OPERATIONS

| OPERATIONS | | NAME | DATE |
|---|---|---|---|
| 1. AEROTRIANGULATION | BY | Brian Thornton | 5/5/80 |
| METHOD: Analytic (Block) | LANDMARKS AND AIDS BY | " " | " |
| 2. CONTROL AND BRIDGE POINTS | PLOTTED BY | Rodney Cauthorne | 5/30/80 |
| METHOD: Calcomp Plotter | CHECKED BY | NA | |
| 3. STEREOSCOPIC INSTRUMENT COMPILATION | PLANIMETRY BY | Brian Baldwin | 6/27/80 |
| | CHECKED BY | Wm. Maynard | 6/27/80 |
| INSTRUMENT: Wild B8/CAPS | CONTOURS BY | NA | |
| SCALE: 1:20,000 | CHECKED BY | NA | |
| 4. MANUSCRIPT DELINEATION | PLANIMETRY BY | Brian Baldwin | 8/8/80 |
| | CHECKED BY | Wm. Maynard | 8/15/80 |
| METHOD: Smooth Drafting | CONTOURS BY | NA | |
| | CHECKED BY | NA | |
| SCALE: 1:20,000 | HYDRO SUPPORT DATA BY | NA | |
| | CHECKED BY | NA | |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT | BY | Field Edit Canceled | |
| 6. APPLICATION OF FIELD EDIT DATA | BY | " " " | |
| | CHECKED BY | NA | |
| 7. COMPILATION SECTION REVIEW | BY | Gregory Fromm | 9/80 |
| 8. FINAL REVIEW | BY | Robert W. Rodkey, Jr. | 4/81 |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH | BY | Robert W. Rodkey, Jr. | 6/81 |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH | BY | Gregory Fromm | 10/81 |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION | BY | H. D. Wolfe<br>Chief, Photo Map and Section | MAR 1982 |

NOAA FORM 76-36B
(3-72)

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

# COMPILATION SOURCES

TP-01057

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8(E)
Focal Length=152.71MM

TIDE STAGE REFERENCE
- [ ] PREDICTED TIDES
- [ ] REFERENCE STATION RECORDS
- [X] TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
(C) COLOR
(P) PANCHROMATIC
(I) INFRARED

TIME REFERENCE
ZONE: Pacific
MERIDIAN: 120th
- [X] STANDARD
- [ ] DAYLIGHT

| NUMBER AND TYPE | DATE | TIME | SCALE | STAGE OF TIDE |
|---|---|---|---|---|
| 79E(P) 5527-5531 | 4/28/79 | | 1:60,000 | NA |
| 5568-5572 | 4/28/79 | | 1:60,000 | NA |
| 79E(C) 4971-4972 | 4/1/79 | | 1:20,000 | NA |
| 4974-4982 | 4/1/79 | | 1:20,000 | NA |
| 4987-4993 | 4/1/79 | | 1:20,000 | NA |
| 5004-5017 | 4/1/79 | | 1:20,000 | NA |
| 79E(I) 5485R-5487R | 4/28/79 | 1449-1451 | 1:50,000 | |
| 5430R-5432R | 4/7/79 | 1047-1049 | 1:50,000 | Refer to the following |
| 5078R-5080R | 4/1/79 | 1154-1156 | 1:50,000 | page, Form 76-36B(1) for |
| 5086R-5088R | 4/1/79 | 1206-1209 | 1:50,000 | tidal information. |
| 5424R-5427R | 4/7/79 | 1035-1038 | 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 photographs 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 | EAST | SOUTH | WEST |
|---|---|---|---|
| TP-01053 | TP-01058 | No Contemporary Survey | TP-00525 (CM-7704) |

REMARKS

NOAA FORM 76-36B
(3-72)

NOAA FORM 76-36B(1)
(7-75)

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

# TIDE – COORDINATED PHOTOGRAPHY

TP – 01057

| LOCATION AND PHOTOGRAPHY | TIDE STATIONS (In operation at time of photography) | STAGE OF TIDE (in feet) | MEAN RANGE (in feet) |
|---|---|---|---|
| Carquinez Strait to Benicia and Martinez 79E (I) 5485R, 5487R | Crockett (941-5143) | -0.54 MHW(1) | 4.3* |
| Benicia to Roe Island 79E (I) 5430R, 5432R | *Port Chicago (941-5144) | .00 MHW | not avail. |
| Roe Island, north to Grizzly Island 79E (I) 5424R, 5427R | Port Chicago (941-5144) | .00 MHW | not avail. |
| Carquinez Strait to Benicia and Martinez 79E(I) 5078R, 5080R | *Crockett (941-5143) | +0.42 MLLW | 4.3* |
| Roe Island north to Grizzly Island, Eastern shoreline of Morrow Island 79E (I) 5086R, 5088R | *Port Chicago (941-5144) | -0.05 MLLW | not avail. |

(1) Based on predicted tides.- see remarks.

REMARKS:

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

* Tide stations in operation at the time of photography are temporary. Mean ranges of tide were taken from the 1979 Tide Tables Publication.

NOAA FORM 76-36C
(3-72)

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

# HISTORY OF FIELD OPERATIONS

TP-01057

I. [X] FIELD INSPECTION OPERATION [ ] FIELD EDIT OPERATION

| OPERATION | | NAME | DATE |
|---|---|---|---|
| 1. CHIEF OF FIELD PARTY | | Robert B. Melby | May 1979 |
| 2. HORIZONTAL CONTROL | RECOVERED BY | " " " | Feb. 1979 |
| | ESTABLISHED BY | " " " | Feb. 1979 |
| | PRE-MARKED OR IDENTIFIED BY | L. L. Riggers | Feb. 1979 |
| 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 | Robert B. Melby | May 1979 |
| | IDENTIFIED BY | NA | |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [X] NO INVESTIGATION BY | 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
Pre-marked

2. VERTICAL CONTROL IDENTIFIED
None

| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
|---|---|---|---|
| 79EP 4877 | Goodyear 2, 1979 Sub Point | | |

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 [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [X] 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)



☆U.S. Government Printing Office: 1975 — 665-661/1110, Region No. 6

NOAA FORM 76-36D
(3-72)

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

# RECORD OF SURVEY USE

TP-01057

## 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 | Apr. 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

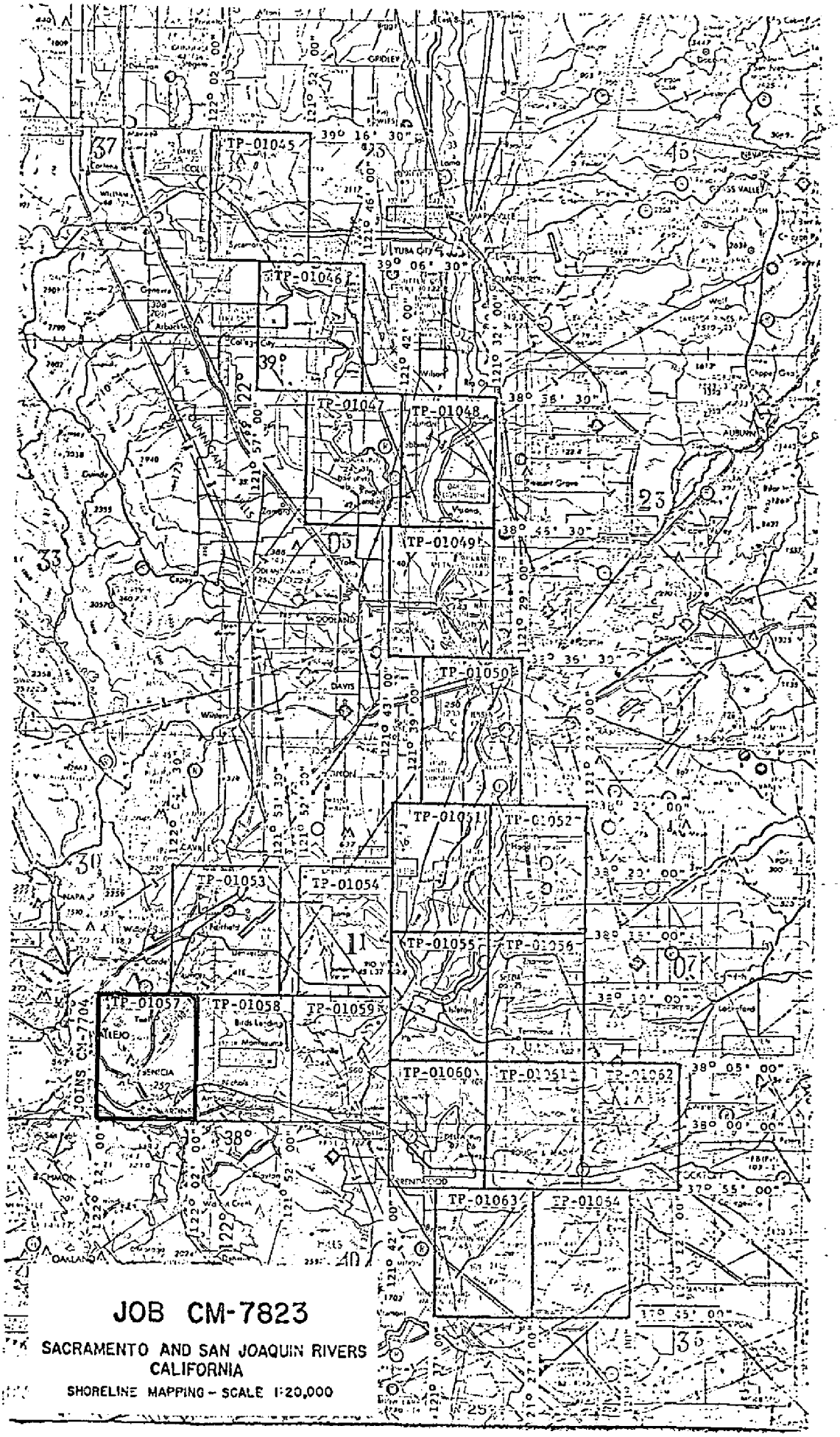
1. [X] BRIDGING PHOTOGRAPHS; [X] DUPLICATE BRIDGING REPORT; [X] COMPUTER READOUTS.
2. [X] CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. [X] SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
4. [X] 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)*

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



☆U.S. Government Printing Office: 1975 – 665-661/1108, Region No. 6


TP-01045
TP-01046
TP-01047
TP-01048
TP-01049
TP-01050
TP-01051
TP-01052
TP-01053
TP-01054
TP-01055
TP-01056
TP-01057
TP-01058
TP-01059
TP-01060
TP-01061
TP-01062
TP-01063
TP-01064
CM-7704
JOINS
JOB CM-7823
SACRAMENTO AND SAN JOAQUIN RIVERS
CALIFORNIA
SHORELINE MAPPING – SCALE 1:20,000

# 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 consiting 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,

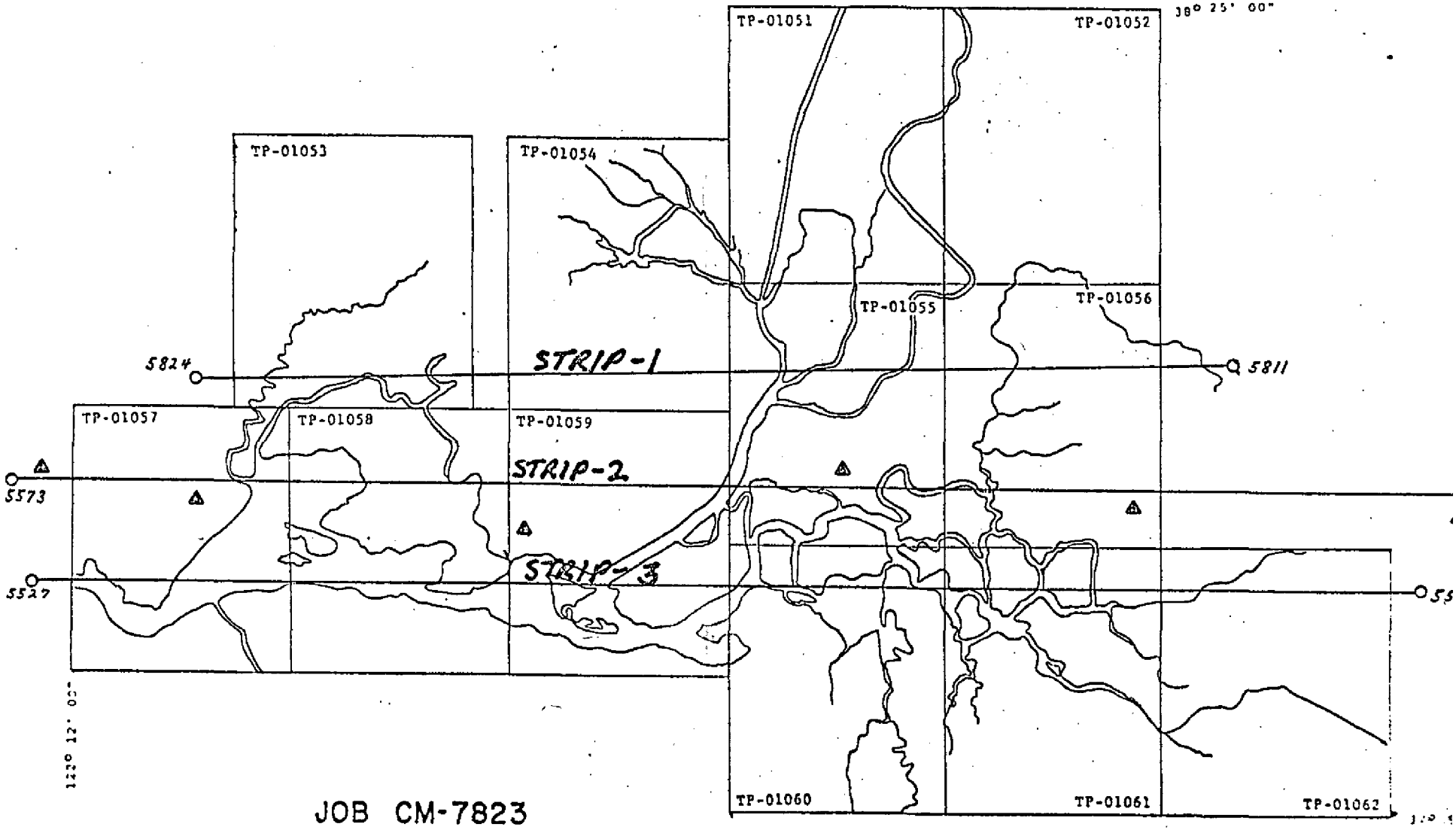
Brian Thornton

Brian Thornton

Approved and Forwarded:

Don O. Norman

Don O. Norman
Chief, Aerotriangulation Section

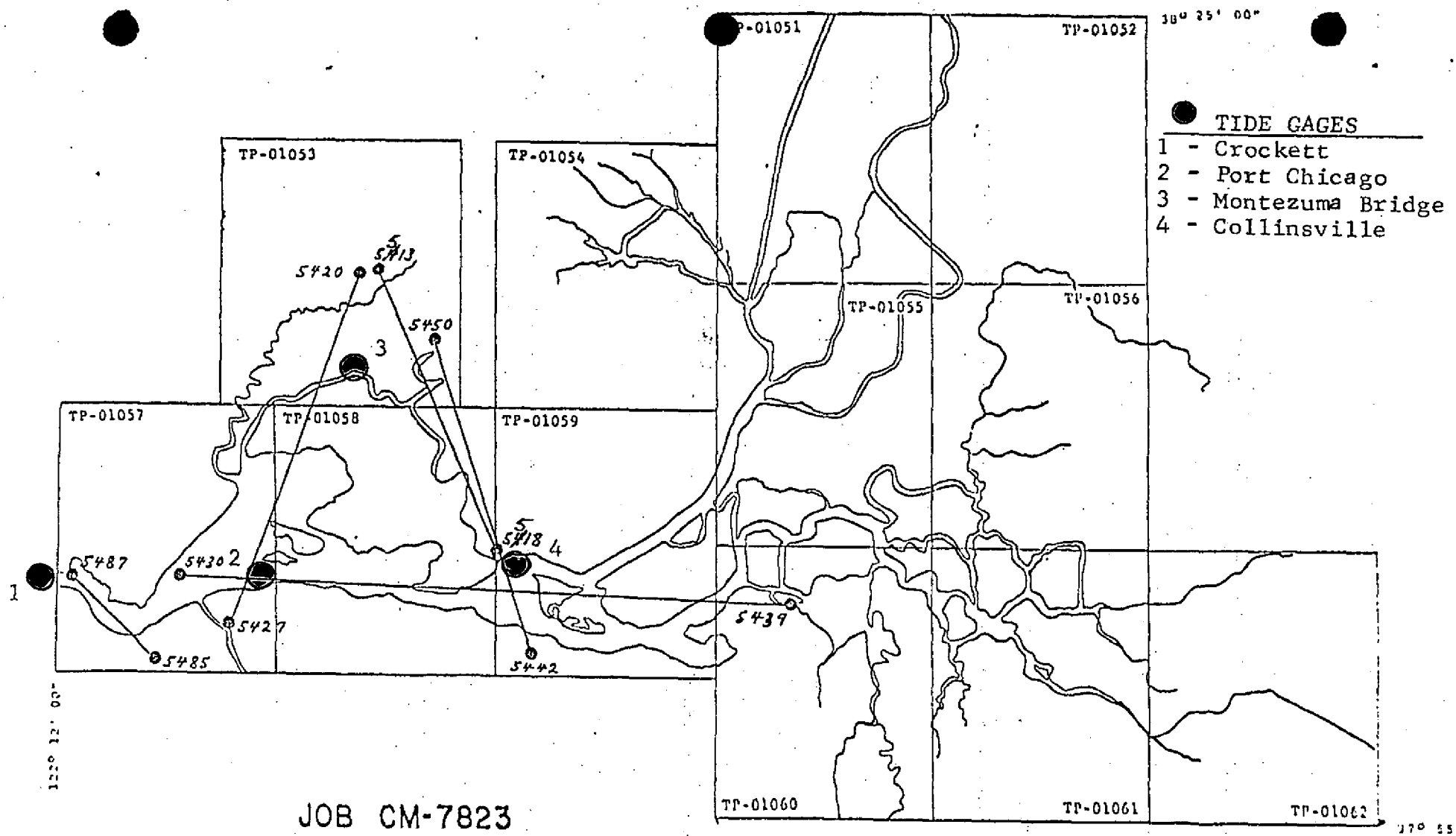



JOB CM-7823

SACRAMENTO AND SAN JOAQUIN RIVERS
CALIFORNIA

SHORELINE MAPPING – SCALE 1:20,000

o 79EP 1:60000 bridging photography

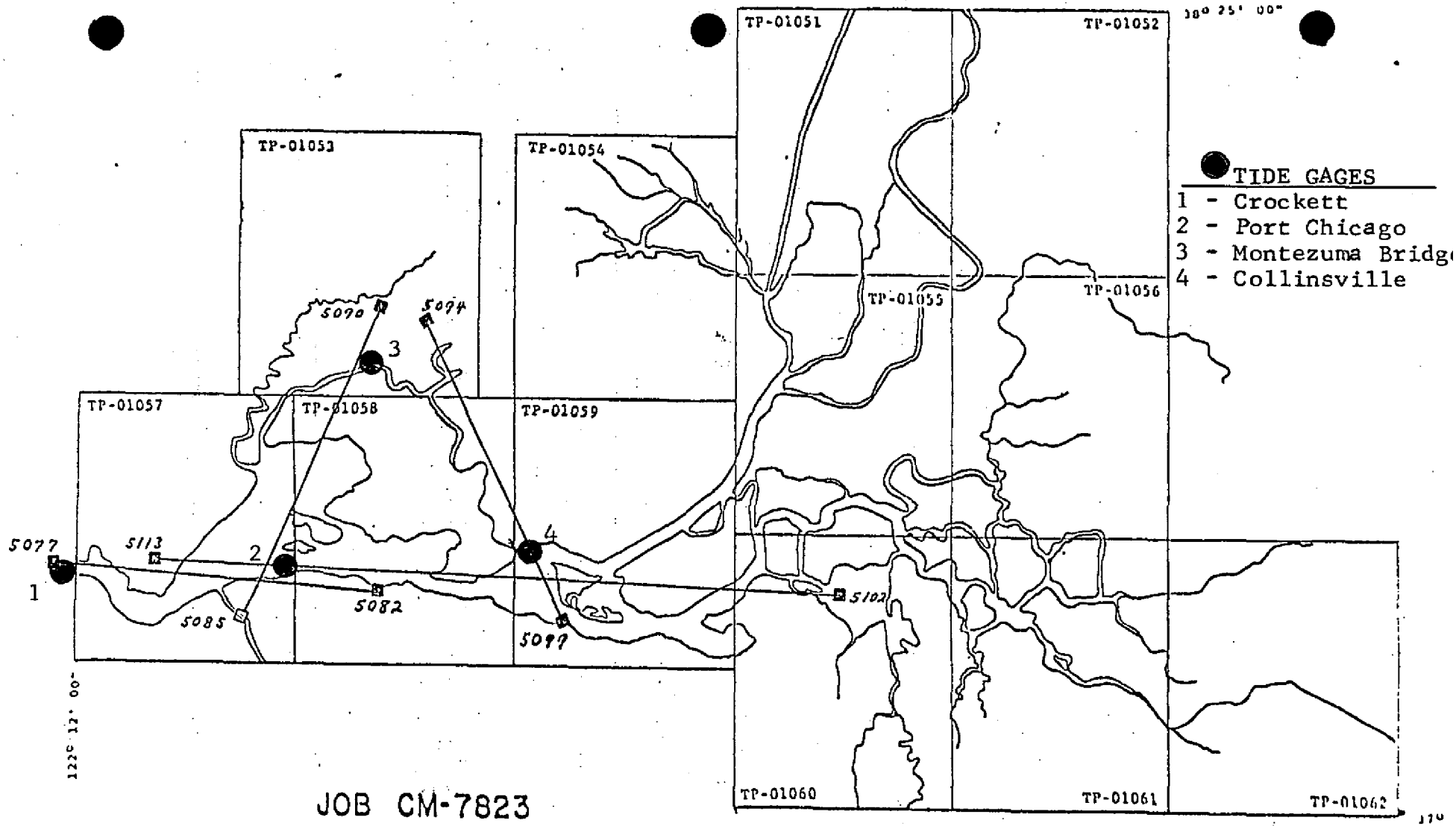



JOB CM-7823

SACRAMENTO AND SAN JOAQUIN RIVERS
CALIFORNIA

SHORELINE MAPPING - SCALE 1:20,000

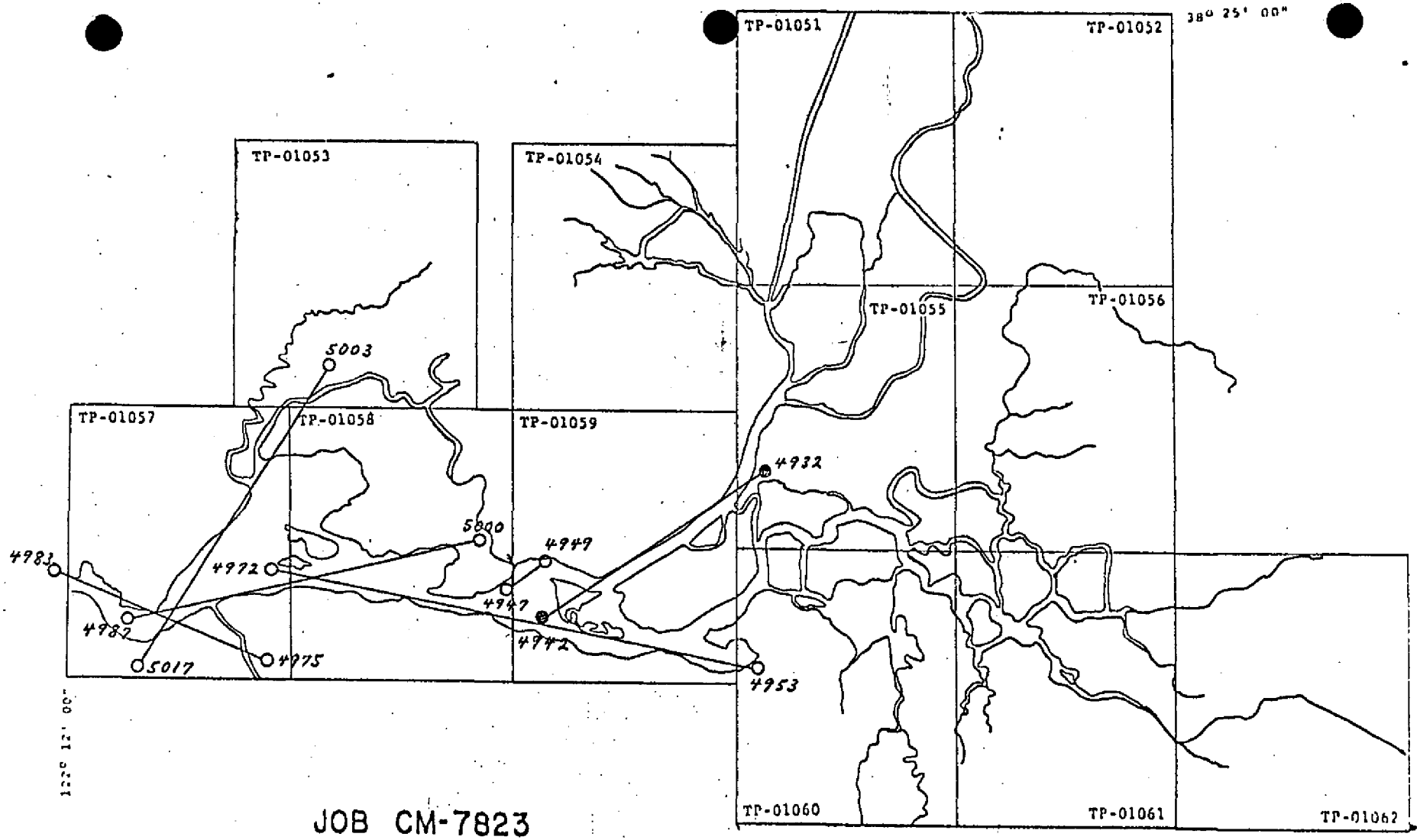
● 79ER 1:50000 MHW




JOB CM-7823

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

□ 79ER 1:50000 MLLW




JOB CM-7823

SACRAMENTO AND SAN JOAQUIN RIVERS
CALIFORNIA

SHORELINE MAPPING - SCALE 1:20,000

o 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 | RATIO |
|---|---|
| 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 |

NOAA FORM 76-41
(6-75)

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

# DESCRIPTIVE REPORT CONTROL RECORD

| MAP NO. | JOB NO. | GEODETIC DATUM | ORIGINATING ACTIVITY |
|---|---|---|---|
| TP-01057 | CM-7823 | North American 1927 | Special Projects Sect (Rockville) |

| STATION NAME | SOURCE OF INFORMATION (Index) | AEROTRI-ANGULATION POINT NUMBER | COORDINATES IN FEET (STATE / ZONE) | GEOGRAPHIC POSITION (φ LATITUDE / λ LONGITUDE) | REMARKS |
|---|---|---|---|---|---|
| PACIFIC GAS AND ELEC. CO. N. TRANS. TOWER 1922 | 381222 STA. 1296 | | x= y= | φ 38-03-43.405 λ 122-11-52.099 | Recovered 1977 |
| MARTINEZ PAC GAS AND ELEC CO CENTER STACK 1949 | 381222 STA. 1262 | | x= y= | φ 38-00-56.257 λ 122-06-57.191 | Recovered 1977 |
| RYER ISLAND GARNET POINT HIGHER OF TWO TANKS 1939 | 381222 STA 1335 | | x= y= | φ 38-05-39.85 λ 122-02-18.70 | Not visible on 1979 photography. Not plotted on map. |
| BENICIA ST PAULS EPISCOPAL CH SPIRE 1949 | 381222 STA. 1191 | | x= y= | φ 38-03-06.812 λ 122-09-19.968 | Recovered 1977 |
| MARTINEZ FOOD CANNERS WATER TANK (TER) 1949 | 381222 STA 1260 | 529401 190 | x= y= | φ 38-01-11.879 λ 122-08-20.166 | Recovered 1977 |
| BULL HEAD POINT MOCOCO FERTILIZER CO STACK 1922 | 381222 STA 1197 | 187 | x= y= | φ 38-02-03.837 λ 122-06-46.425 | Not plotted on map Not visible on photos Appears to be Destroyed. |
| MARTINEZ ABANDONED SMELTER CONCRETE STACK 1949 | 381222 STA 1258 | 188 | x= y= | φ 38-01-45.999 λ 122-06-12.171 | Not visible on photos. Appears to be destroyed. Not plotted on map. |
| CARQUINEZ STRAIT LIGHT NO. 2 [JOE] 1949 | 381222 STA 1201 | | x= y= | φ 38-03-14.512 λ 122-11-40.236 | |
| GOODYEAR 2 1979 (FIELD POSITION) | CSI Card | 570100 | x= y= | φ 38-06-22.019 λ 122-06-12.490 | |
| BAY PT USE 1932 | 381222 STA 1060 | | x= y= | φ 38-02-03.688 λ 122-00-58.696 | Recovered 1979 |

| | | | |
|---|---|---|---|
| COMPUTED BY | DATE | COMPUTATION CHECKED BY | DATE |
| LISTED BY G Freeman | DATE 6/16/80 | LISTING CHECKED BY | DATE |
| HAND PLOTTING BY | DATE | HAND PLOTTING CHECKED BY | DATE |

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

-BMB

NOAA FORM 76-41
(6-75)

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

# DESCRIPTIVE REPORT CONTROL RECORD

| MAP NO. | JOB NO. | GEODETIC DATUM | ORIGINATING ACTIVITY |
|---|---|---|---|
| TP-01057 | CM-7823 | N. A. 1927 | Special Projects (Rockville) |

| STATION NAME | SOURCE OF INFORMATION (Index) | AEROTRI-ANGULATION POINT NUMBER | COORDINATES IN FEET (STATE / ZONE) | GEOGRAPHIC POSITION (φ LATITUDE / λ LONGITUDE) | REMARKS |
|---|---|---|---|---|---|
| ✓ DOLPHINE 3, 1954 | 381222 Sta 1211 | 174 | x= y= | φ 38-04-41.553 ✓ λ 122-03-20.857 ✓ | Recovered 1977 |
| ✓ DOLPHINE 5, 1954 | 381222 Sta 1213 | 182 | x= y= | φ 38-03-15.167 ✓ λ 122-05-34.911 ✓ | Recovered 1977 |
| ✓ DOLPHINE 1, 1954 | 381222 Sta 1209 | 166 | x= y= | φ 38-07-56.945 ✓ λ 122-02-39.353 ✓ | Recoved 1977 |
| BENICIA RR BR AERO BN 1979 (Field Position) | PMC List and Comp. | PMC I.D. 407 | x= y= | φ 38-02-17.8788 ✓ λ 122-07-09.6993 ✓ | |
| ✓ SUISUN BAY N. CHAN LT 13, 1976 (Field Position) | " | PMC I.D. 419 | x= y= | φ 38-03-59.355 ✓ λ 122-03-09.947 ✓ | |
| ✓ SUISUN BAY NORTH CHANNEL LT 2, 1979 (Field Position) | " | 408 | x= y= | φ 38-02-51.079 ✓ λ 122-06-42.230 ✓ | |
| ✓ SUISUN BAY North Channel LT. 4, 1979 (Field Position) | " | 409 | x= y= | φ 38-03-53.654 ✓ λ 122-05-44.184 ✓ | |
| ✓ SUISUN BAY North Channel LT. 6, 1979 (Field Position) | " | 410 | x= y= | φ 38-04-47.622 ✓ λ 122-04-51.903 ✓ | |
| ✓ SUISUN BAY North Channel LT. 8, 1979 (Field Position) | " | 411 | x= y= | φ 38-05-44.367 ✓ λ 122-03-56.013 ✓ | |
| ✓ SUISUN SLOUGH ENT LT 9, 1979 (Field Position) | " | 412 | x= y= | φ 38-06-29.677 ✓ λ 122-03-18.420 ✓ | |

| COMPUTED BY | DATE | COMPUTATION CHECKED BY | DATE |
|---|---|---|---|
| LISTED BY G. Tranner | DATE 6/16/80 | LISTING CHECKED BY Wm. Maynard | DATE 6-23-80 |
| HAND PLOTTING BY | DATE | HAND PLOTTING CHECKED BY | DATE |

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

NOAA FORM 76-41
(6-75)

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

# DESCRIPTIVE REPORT CONTROL RECORD

| MAP NO. | JOB NO. | GEODETIC DATUM | ORIGINATING ACTIVITY |
|---|---|---|---|
| TP-01057 | CM-7823 | N. A. 1927 | Special Projects Sect (Rockville) |

| STATION NAME | SOURCE OF INFORMATION (Index) | AEROTRIANGULATION POINT NUMBER | COORDINATES IN FEET (STATE / ZONE) | GEOGRAPHIC POSITION (φ LATITUDE / λ LONGITUDE) | REMARKS |
|---|---|---|---|---|---|
| ✓ SUISUN SLOUGH ENT LT 10, 1979 (Field Position) | PMC List + Comp. | PMC I.D. 413 | x= / y= | φ 38-07-08.921 ✓ / λ 122-03-39.820 ✓ | |
| ✓ PT. EDITH CROSSING RNG FRONT LT 1979 (Field Position) | " | 417 | x= / y= | φ 38-03-55.780 ✓ / λ 122-03-30.190 ✓ | |
| ✓ PT EDITH CROSSING RNG REAR LT, 1979 (Field Position) | " | 418 | x= / y= | φ 38-03-59.440 ✓ / λ 122-03-23.715 ✓ | |
| ✓ ROE ISLAND CHAN RNG REAR LT, 1979 (Field Position) | " | 420 | x= / y= | φ 38-04-04.195 ✓ / λ 122-03-02.082 ✓ | |
| ✓ ROE ISLAND CHAN RNG FRONT LT, 1979 (Field Position) | " | 421 | x= / y= | φ 38-04-00.507 ✓ / λ 122-02-43.242 ✓ | |
| ✓ SUISUN BAY N CHAN LT 14, 1979 (Field Position) | " | 422 | x= / y= | φ 38-03-53.641 ✓ / λ 122-03-07.718 ✓ | |
| BENICIA ST DOMINICS CATH CH. W. BELL TOWER | 381222 Sta 1190 | 192 | x= / y= | φ 38-02-53.966 / λ 122-08-56.930 | Not identifiable from photos. Not plotted on map. |
| | | | x= / y= | φ / λ | |
| | | | x= / y= | φ / λ | |
| | | | x= / y= | φ / λ | |

| COMPUTED BY | DATE | COMPUTATION CHECKED BY | DATE |
|---|---|---|---|
| LISTED BY G. Fremm | DATE 6/16/80 | LISTING CHECKED BY Wm. Maynard | DATE 6-23-80 |
| HAND PLOTTING BY | DATE | HAND PLOTTING CHECKED BY | DATE |

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

Compilation Report

TP-01057

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

Refer to Forms 76-40 bound with this Descriptive Report for the description and geographic positions of those landmarks and aids that fall within the geographic limits of this map.

Forms 76-40 were submitted to the Marine Chart Division (C32) by Photo Party CPM 133 on May 23, 1979, under CM-7823. The positions furnished are field positions.

The natural color photography was used to supplement the panchromatic photography in the identification of fixed aids and landmarks.

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 complies with the National Standards of Map Accuracy.

41. 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

Benicia, Calif., 1:24,000 scale, 1959, photorevised in 1968

Port Chicago, Calif., 1:24,000 scale, 1959, photorevised in 1968

No significant differences were noted.

47. Comparison with Nautical Charts

A comparison was made with the following charts:

18652, San Francisco to Antioch, Pages C, D, and E, 1:40,000 scale, 17th Edition, April 1978

18656, Suisan Bay, 1:40,000 scale, 41st Edition, June 6, 1979

18657, Carquinez Strait, 1:10,000 scale, 10th Edition, June 30, 1979

18658, Suisan Bay, Roe Island and vicinity, 1:10,000 scale, 20th Edition, March 24, 1979

Items to be applied to Nautical Charts immediately - None

Items to be carried forward - None

Submitted by,

Brian M. Baldwin

Brian M. Baldwin

Approved and Forwarded:

John A. Mooney Jr for

George M. Ball
Chief, Special Projects Section

Review Report
TP-01057
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 and 1949 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 1939 and 1940; 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 STREET
CM-7823 (Sacramento River, California)

TP-01057

Army Point
Avon
Benicia
Benicia-Martinez Bridge
Benicia Point
Bulls Head Point
Carquinez Strait
Commodore Jones Point
Cordelia Slough
Dillon Point
Garnet Point
Goodyear Slough
Grizzly Bay
Grizzly Island
Hastings Slough
Hunter Cut
Joice Island
Martinez
Mococo
Montezuma Slough
Morrow Island
Ozol
Pacheco Creek
Point Carquinez
Point Edith
Port Costa
Preston Point
Roe Island
Ryer Island
Seal Islands
Seal Islands Channel
Southampton Bay
Southern Pacific (RR)
Suisun Bay
Suisun Point
Suisun Slough

Approved by:

Charles E. Harrington

Charles E. Harrington
Chief Geographer, C3x5

PHOTOGRAMMETRIC BRANCH
PHOTOGRAMMETRY DIDISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

DATATAB
VERSION
782707

| | | | |
|---|---|---|---|
| SVY TP-01057 | RPT UNIT S.P.S.,ROCKVILLE,MD. | PAGE 1 OF 10 | |
| JOB CM-7823 | STATE CALIFORNIA | | |
| PRJ SACRA R. | LOCALITY SUISAN BAY | ORIGINATING ACTIVITY | |
| DTM NA 1927 | DATE 9/10/80 | COMPILATION | |

| POSITIONS DETERMINED AND/OR VERIFIED BY FIELD AND OFFICE ACTIVITIES | NO FIELD EDIT-CLASS III MAP | FIELD REPRESENTATIVE |
|---|---|---|
| | B. BALDWIN | OFFICE COMPILER |
| | B. MAYNARD | DIGITIZER |
| | B. MAYNARD | DATA PROCESSER |

KEY FOR ENTRIES UNDER METHOD AND DATE OF LOCATION

OFFICE

1. OFFICE IDENTIFIED AND LOCATED OBJECTS. THE NUMBER AND DATE (INCLUDING MONTH,DAY AND YEAR) OF THE PHOTOGRAPH USED TO IDENTIFY AND LOCATE THE OBJECT ARE SHOWN.
   EXAMPLE 75E(C)6042
   8-12-77

FIELD

1. NEW POSITION DETERMINED OR VERIFIED
   KEY TO SYMBOLS

| | |
|---|---|
| F-FIELD | P-PHOTOGRAMMETRIC |
| L-LOCATED | VIS-VISUALLY |
| V-VERIFIED | |
| 1-TRIANGULATION | 5-FIELD IDENTIFIED |
| 2-TRAVERSE | 6-THEODOLITE |
| 3-INTERSECTION | 7-PLANETABLE |
| 4-RESECTION | 8-SEXTANT |

   A. FIELD POSITIONS* SHOW THE METHOD OF LOCATION AND DATE OF FIELD WORK.
   EXAMPLE F-2-6-L
   8-12-76

*FIELD POSITIONS ARE DETERMINED BY FIELD OBSERVATIONS BASED ENTIRELY UPON GROUND SURVEY METHODS

FIELD(CONT,D)

B. PHOTOGRAMMETRIC FIELD POSITIONS** SHOW THE METHOD OF LOCATION OR VERIFICATION, DATE OF FIELD WORK AND NUNBER OF PHOTOGRAPH USED TO LOCATE AND IDENTIFY THE OBJECT.
   EXAMPLE P-8-V
   8-12-77
   74L(C)2982

2. TRIANGULATION STATION RECOVERED
   WHEN A LANDMARK OR AID WHICH IS ALSO A TRIANGULATION STATION IS RECOVERED, A TRIANG. REC. WITH DATE OF RECOVERY IS SHOWN.
   EXAMPLE TRIANG. REC.
   8-12-76

3. POSITION VERIFIED VISUALLY ON PHOTOGRAPH SHOWN BY V-VIS AND DATE.
   EXAMPLE V-VIS
   8-12-75

**PHOTOGRAMMETRIC FIELD POSITIONS ARE DEPENDENT ENTIRELY,OR IN PART,UPON CONTROL ESTABLISHED BY PHOTOGRAMMETRIC METHODS.

NOTE: WHERE THE NAME OF AN AID INCLUDES THE IMMEDIATE GEOGRAPHIC HEADING UNDER WHICH IT IS LISTED, A DASH (-) IS USED TO INDICATE THE GEOGRAPHIC HEADING WHICH IS PART OF THE OFFICIAL NAME.

| | | | | |
|---|---|---|---|---|
| SVY TP-01057 | | RPT UNIT S.P.S.,ROCKVILLE,MD. | PAGE 2 OF 10 | |
| JOB CM-7823 | NONFLOATING AIDS FOR CHARTS | STATE CALIFORNIA | | |
| PRJ SACRA R. | TO BE REVISED | LOCALITY SUISAN BAY | ORIGINATING ACTIVITY | |
| DTM NA 1927 | | DATE 9/10/80 | COMPILATION | |

THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

| CHARTING NAME | DESCRIPTION RECORD REASON FOR DELETION PUT TRIANGULATION NAMES IN ( ) | POSITION LATITUDE LONGITUDE | DM DP | CMD ALTEK DGTZD | METHOD AND DATE OF LOCATION OFFICE | FIELD | CHARTS AFFECTED |
|---|---|---|---|---|---|---|---|
| | SAN FRANCISCO BAY CARQUINEZ STRAIT | | | | | | |
| -LT 21 | | 38 03 36.35 | 1120.7 | | 79E(C)4982 | | 18656 |
| | | 122 11 35.24 | 859.1 | | 4/01/79 | | 18657 |
| -LT 20 | (CARQUINEZ STRAIGHT LIGHT | 38 03 14.51 | 447.4 | NOT | 79E(P)5528 | | DITTO |
| | NO 2(JOE) 1949) | 122 11 40.24 | 981.1 | DGTZD | 4/28/79 | | |
| -LT 22 | | 38 02 56.07 | 1728.7 | | 79E(C)4981 | | DITTO |
| | | 122 10 57.40 | 1399.5 | | 4/01/79 | | |
| -LT 23 | | 38 02 36.65 | 1130.0 | | 79E(C)4980 | | DITTO |
| | | 122 09 59.05 | 1439.9 | | 4/01/79 | | |
| LT | BENICIA WHARF LIGHT | 00 00 00.00 | .0 | NOT | UNVERIFIED | | DITTO |
| | | 00 00 00.00 | .0 | DGTZD | | | |
| LT 1 | MARTINEZ MARINA LT 1 | 00 00 00.00 | .0 | NOT | UNVERIFIED | | DITTO |
| | | 00 00 00.00 | .0 | DGTZD | | | |
| LT 2 | MARTINEZ MARINA LT 2 | 00 00 00.00 | .0 | NOT | UNVERIFIED | | DITTO |
| | | 00 00 00.00 | .0 | DGTZD | | | |
| LT | SHELL OIL WHARF WEST END LT | 00 00 00.00 | .0 | NOT | UNVERIFIED | | DITTO |
| | | 00 00 00.00 | .0 | DGTZD | | | |
| HORN | SHELL OIL WHARF FOG SIGNAL | 00 00 00.00 | .0 | NOT | UNVERIFIED | | DITTO |
| | | 00 00 00.00 | .0 | DGTZD | | | |

| | | | | |
|---|---|---|---|---|
| SVY TP-01057 | | RPT UNIT | S.P.S.,ROCKVILLE,MD. | PAGE 3 OF 10 |
| JOB CM-7823 | NONFLOATING AIDS FOR CHARTS | STATE | CALIFORNIA | |
| PRJ SACRA R. | TO BE REVISED | LOCALITY | SUISAN BAY | ORIGINATING ACTIVITY |
| DTM NA 1927 | | DATE | 9/10/80 | COMPILATION |

THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

| CHARTING NAME | DESCRIPTION<br>RECORD REASON FOR DELETION<br>PUT TRIANGULATION NAMES IN ( ) | POSITION<br>LATITUDE<br>LONGITUDE | DM<br>DP | CMD<br>ALTEK<br>DGTZD | METHOD AND DATE OF LOCATION<br>OFFICE | FIELD | CHARTS AFFECTED |
|---|---|---|---|---|---|---|---|
| LT | SHELL OIL WHARF EAST END LT | 00 00 00.00 | .0 | NOT | UNVERIFIED | | 18656 |
| | | 00 00 00.00 | .0 | DGTZD | | | 18657 |
| | SAN FRANCISCO BAY<br>SUISUN BAY | | | | | | |
| LT | AMORCO WHARF LIGHT W END | 00 00 00.00 | .0 | NOT | UNVERIFIED | | 18656 |
| | | 00 00 00.00 | .0 | DGTZD | | | 18658 |
| LT | AMORCO WHARF LIGHT E END | 00 00 00.00 | .0 | NOT | UNVERIFIED | | DITTO |
| | | 00 00 00.00 | .0 | DGTZD | | | |
| HORN | BENICIA-MARTINEZ HIGHWAY BR<br>MAIN CHANNEL FOG SIGNAL | 00 00 00.00 | .0 | NOT | UNVERIFIED | | DITTO |
| | | 00 00 00.00 | .0 | DGTZD | | | |
| HORN | BENICIA-MARTINEZ HIGHWAY BR<br>SECONDARY CHANNEL FOG SIGNAL | 00 00 00.00 | .0 | NOT | UNVERIFIED | | DITTO |
| | | 00 00 00.00 | .0 | DGTZD | | | |
| SIREN | BENICIA-MARTINEZ RR BRIDGE<br>PIER 13 FOG SIGNAL | 00 00 00.00 | .0 | NOT | UNVERIFIED | | DITTO |
| | | 00 00 00.00 | .0 | DGTZD | | | |
| SIREN | BENICIA-MARTINEZ RR BRIDGE<br>PIER 17 FOG SIGNAL | 00 00 00.00 | .0 | NOT | UNVERIFIED | | DITTO |
| | | 00 00 00.00 | .0 | DGTZD | | | |
| LT 2 | (SUISUN BAY NORTH CHANNEL<br>LT 2 1979) FIELD POSITION | 38 02 51.08 | 1574.9 | NOT | 79E(P)5530 | | 18656 |
| | | 122 06 42.23 | 1029.7 | DGTZD | 4/28/79 | | 18657 |
| | | | | | | | 18652 |

28

| | | | | |
|---|---|---|---|---|
| SVY TP-01057 | | RPT UNIT S.P.S.,ROCKVILLE,MD. | PAGE 4 OF 10 | |
| JOB CM-7823 | NONFLOATING AIDS FOR CHARTS | STATE CALIFORNIA | | |
| PRJ SACRA R. | TC BE REVISED | LOCALITY SUISAN BAY | ORIGINATING ACTIVITY | |
| DTM NA 1927 | | DATE 9/10/80 | COMPILATION | |

THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

| CHARTING NAME | DESCRIPTION RECORD REASON FOR DELETION PUT TRIANGULATION NAMES IN ( ) | POSITION LATITUDE LONGITUDE | DM DP | CMD ALTEK DGTZD | METHOD AND DATE OF LOCATION OFFICE | FIELD | CHARTS AFFECTED |
|---|---|---|---|---|---|---|---|
| LT 4 | (SUISUN BAY NORTH CHANNEL | 38 03 53.65 | 1654.1 | NOT | 79E(P)5530 | | 18656 |
| | LT 4 1979) FIELD POSITION | 122 05 44.18 | 1077.0 | DGTZD | 4/28/79 | | 18657 |
| | | | | | | | 18652 |
| LT 6 | (SUISUN BAY NORTH CHANNEL | 38 04 47.62 | 1468.2 | NOT | 79E(P)5530 | | DITTO |
| | LT 6 1979) FIELD POSITION | 122 04 51.90 | 1264.9 | DGTZD | 4/28/79 | | |
| LT 8 | (SUISUN BAY NORTH CHANNEL | 38 05 44.37 | 1368.0 | NOT | 79E(P)5569 | | 18656 |
| | LT 8 1979) FIELD POSITION | 122 03 56.01 | 1364.8 | DGTZD | 4/28/79 | | 18658 |
| | SUISUN BAY | | | | | | |
| | SUISUN SLOUGH ENTRANCE | | | | | | |
| -LT 9 | (SUISUN SLOUGH ENT LT 9 1979) | 38 06 29.68 | 915.1 | NOT | 79E(P)5569 | | 18656 |
| | FIELD POSITION | 122 03 18.42 | 448.8 | DGTZD | 4/28/79 | | 18658 |
| -LT 10 | (SUISUN SLOUGH ENT LT 10 1979) | 38 07 08.92 | 275.0 | NOT | 79E(P)5569 | | DITTO |
| | FIELD POSITION | 122 03 39.82 | 970.0 | DGTZD | 4/28/79 | | |

| | | | | |
|---|---|---|---|---|
| SVY TP-01057 | NONFLOATING AIDS FOR CHARTS TO BE REVISED | RPT UNIT S.P.S.,ROCKVILLE,MD. | PAGE 5 OF 10 | |
| JOB CM-7823 | | STATE CALIFORNIA | | |
| PRJ SACRA R. | | LOCALITY SUISAN BAY | ORIGINATING ACTIVITY | |
| DTM NA 1927 | | DATE 9/10/80 | COMPILATION | |

THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

| CHARTING NAME | DESCRIPTION RECORD REASON FOR DELETION PUT TRIANGULATION NAMES IN ( ) | POSITION LATITUDE LONGITUDE | DM DP | CMD ALTEK DGTZD | METHOD AND DATE OF LOCATION OFFICE | FIELD | CHARTS AFFECTED |
|---|---|---|---|---|---|---|---|
| | SUISUN BAY | | | | | | |
| | SUISUN BAY | | | | | | |
| -CHAN | -CHANNEL LT 6 | 38 02 29.91 | 922.2 | | 79E(C)4989 | | 18656 |
| LT 6 | | 122 06 38.56 | 940.3 | | 4/01/79 | | 18658 |
| -CHAN | -CHANNEL LT 7 | 38 02 52.14 | 1607.6 | | 79E(C)4989 | | DITTO |
| LT 7 | | 122 05 59.11 | 1441.3 | | 4/01/79 | | |
| LTS | AVON WHARF WEST LTS | 00 00 00.00 | .0 | NOT | UNVERIFIED | | DITTO |
| | | 00 00 00.00 | .0 | DGTZD | | | |
| LT | AVON WHARF EAST LIGHT | 00 00 00.00 | .0 | NOT | UNVERIFIED | | DITTO |
| | | 00 00 00.00 | .0 | DGTZD | | | |
| -CHAN | -CHANNEL LT 9 | 38 03 11.57 | 356.7 | | 79E(C)4990 | | DITTO |
| LT 9 | | 122 04 54.47 | 1328.0 | | 4/01/79 | | |
| | | | | | | | |
| | | | | | | | |
| | SUISUN BAY | | | | | | |
| | SEAL ISLANDS CHANNEL | | | | | | |
| -LT 2 | | 38 03 12.99 | 400.5 | | 79E(P)5530 | | 18656 |
| | | 122 04 12.70 | 309.6 | | 4/28/79 | | 18658 |
| -DYBN | | 38 03 22.31 | 687.9 | | 79E(C)4991 | | DITTO |
| 3 | | 122 03 52.21 | 1272.9 | | 04/01/79 | | |

| | | | | |
|---|---|---|---|---|
| SVY TP-01057 | | RPT UNIT | S.P.S.,ROCKVILLE,MD. | PAGE 6 OF 10 |
| JOB CM-7823 | NONFLOATING AIDS FOR CHARTS | STATE | CALIFORNIA | |
| PRJ SACRA R. | TO BE REVISED | LOCALITY | SUISAN BAY | ORIGINATING ACTIVITY |
| DTM NA 1927 | | DATE | 9/10/80 | COMPILATION |

THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

| CHARTING NAME | DESCRIPTION: RECORD REASON FOR DELETION; PUT TRIANGULATION NAMES IN ( ) | POSITION: LATITUDE / LONGITUDE | DM / DP | CMD ALTEK / DGTZD | METHOD AND DATE OF LOCATION: OFFICE | FIELD | CHARTS AFFECTED |
|---|---|---|---|---|---|---|---|
| -DYBN 4 | | 38 03 14.84 | 457.5 | | 79E(C)4991 | | 18656 |
| | | 122 03 ~~13.63~~ 51.03 | ~~332.3~~ | | 04/01/79 | | 18658 |
| -DYBN 5 | | 38 03 13.29 | 409.8 | | 79E(C)4991 | | 18656 |
| | | 122 03 18.64 | 454.5 | | 04/01/79 | | 18658 |
| -DYBN 6 | | 38 03 07.38 | 227.5 | | 79E(C)4991 | | 18656 |
| | | 122 03 18.26 | 445.2 | | 04/01/79 | | 18658 |
| -DYBN 8 | | 00 00 00.00 | .0 | NOT | UNVERIFIED | | 18656 |
| | | 00 00 00.00 | .0 | DGTZD | | | 18658 |
| -DYBN 9 | | 00 00 00.00 | .0 | NOT | UNVERIFIED | | 18656 |
| | | 00 00 00.00 | .0 | DGTZD | | | 18658 |
| | SUISUN BAY | | | | | | |
| | SUISUN BAY | | | | | | |
| -CHAN LT 10 | -CHANNEL LT 10 | 38 03 27.48 | 847.3 | | 79E(P)5530 | | 18656 |
| | | 122 04 14.37 | 350.3 | | 4/28/79 | | 18658 |
| RGE F LT | (POINT EDITH CROSSING RANGE FRONT LT 1979) FIELD POSITION | 38 03 55.78 | 1719.8 | NOT | 79E(P)5530 | | DITTO |
| | | 122 03 30.19 | 735.9 | DGTZD | 4/28/79 | | |
| RGE R LT | (POINT EDITH CROSSING RANGE REAR LT 1979) FIELD POSITION | 38 03 59.44 | 1832.7 | NOT | 79E(P)5530 | | DITTO |
| | | 122 03 23.71 | 578.0 | DGTZD | 4/28/79 | | |

| | | | | |
|---|---|---|---|---|
| SVY TP-01057 | | RPT UNIT | S.P.S.,ROCKVILLE,MD. | PAGE 7 OF 10 |
| JOB CM-7823 | NONFLOATING AIDS FOR CHARTS | STATE | CALIFORNIA | |
| PRJ SACRA R. | TO BE REVISED | LOCALITY | SUISAN BAY | ORIGINATING ACTIVITY |
| DTM NA 1927 | | DATE | 9/10/80 | COMPILATION |

THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

| CHARTING NAME | DESCRIPTION<br>RECORD REASON FOR DELETION<br>PUT TRIANGULATION NAMES IN ( ) | POSITION<br>LATITUDE<br>LONGITUDE | DM<br>DP | CMD<br>ALTEK<br>DGTZD | METHOD AND DATE OF LOCATION<br>OFFICE | FIELD | CHARTS AFFECTED |
|---|---|---|---|---|---|---|---|
| -CHAN LT 11 | | 38 03 51.49<br>122 03 42.85 | 1587.5<br>1044.6 | | 79E(C)4992<br>4/01/79 | | 18656<br>18658 |
| -CHAN LT 12 | | 38 03 47.64<br>122 03 32.83 | 1468.8<br>800.3 | | 79E(C)4992<br>4/01/79 | | DITTO |
| -CHAN LT 13 | (SUISUN BAY NORTH CHANNEL LT 13 1979) FIELD POSITION | 38 03 59.36<br>122 03 09.95 | 1830.2<br>242.5 | NOT DGTZD | 79E(P)5530<br>4/28/79 | | DITTO |
| -CHAN LT 14 | (SUISUN BAY NORTH CHANNEL LT 14 1979) FIELD POSITION | 38 03 53.64<br>122 03 07.72 | 1653.8<br>188.2 | NOT DGTZD | 79E(P)5530<br>4/28/79 | | DITTO |
| -CHAN LT 15 | | 38 03 59.53<br>122 02 26.07 | 1835.4<br>635.5 | | 79E(C)4992<br>4/01/79 | | DITTO |
| -CHAN LT 16 | | 38 03 53.84<br>122 02 21.20 | 1660.0<br>516.8 | | 79E(C)4992<br>4/01/79 | | DITTO |
| RGE F LT | (ROE ISLAND CHANNEL RANGE FRONT LT 1979) FIELD POSITION | 38 04 00.51<br>122 02 43.24 | 15.7<br>1054.0 | NOT DGTZD | 79E(P)5530<br>4/28/79 | | DITTO |
| RGE R LT | (ROE ISLAND CHANNEL RANGE REAR LT 1979) FIELD POSITION | 38 04 04.19<br>122 03 02.08 | 129.2<br>50.7 | NOT DGTZD | 79E(P)5530<br>4/28/79 | | DITTO |

| | | | |
|---|---|---|---|
| SVY TP-01057 | LANDMARKS FOR CHARTS TO BE REVISED | RPT UNIT S.P.S.,ROCKVILLE,MD. | PAGE 8 OF 10 |
| JOB CM-7823 | | STATE CALIFORNIA | |
| PRJ SACRA R. | | LOCALITY SUISAN BAY | ORIGINATING ACTIVITY |
| DTM NA 1927 | | DATE 9/10/80 | COMPILATION |

THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

| CHARTING NAME | DESCRIPTION RECORD REASON FOR DELETION PUT TRIANGULATION NAMES IN ( ) | POSITION LATITUDE LONGITUDE | DM DP | CMD ALTEK DGTZD | METHOD AND DATE OF LOCATION OFFICE | FIELD | CHARTS AFFECTED |
|---|---|---|---|---|---|---|---|
| TANK | (MARTINEZ FOOD CANNERS | 38 01 11.88 | 366.3 | NOT | 79E(P)5529 | | 18656 |
| | WATER TANK(TER) 1949) | 122 08 20.17 | 492.0 | DGTZD | 04/28/79 | | 18657 |
| SPIRE | (BENICIA ST PAULS EPISCOPAL | 38 03 06.81 | 210.0 | NOT | 79E(P)5529 | | |
| | CH SPIRE 1949) | 122 09 19.97 | 486.9 | DGTZD | 04/28/79 | | DITTO |
| TOWER | (PACIFIC GAS AND ELEC CO | 38 03 43.41 | 1338.4 | NOT | 79E(P)5528 | | |
| | N TRANS TOWER 1922) | 122 11 52.10 | 1270.1 | DGTZD | 04/28/79 | | DITTO |
| STACK | | 38 02 01.37 | 42.2 | NOT | 79E(P)5529 | | 18656 |
| | | 122 06 52.27 | 1274.7 | DGTZD | 04/28/79 | | 18657 |
| STACK | (MARTINEZ PAC GAS AND ELEC CO | 38 00 56.26 | 1734.6 | NOT | 79E(P)5529 | | 18656 |
| | CENTER STACK 1949) | 122 06 57.19 | 1395.1 | DGTZD | 04/28/79 | | |
| STACK | HUMBLE OIL | 38 04 19.74 | 608.6 | | 79E(P)5529 | | 18656 |
| | | 122 08 13.02 | 317.4 | | 04/28/79 | | 18657 |
| STACK | | 38 01 15.11 | 465.9 | NOT | 79E(P)5530 | | 18656 |
| | | 122 03 55.73 | 1359.3 | DGTZD | 04/28/79 | | |
| TANK | | 38 01 25.83 | 796.4 | NOT | 79E(P)5530 | | 18656 |
| | | 122 03 16.92 | 412.7 | DGTZD | 04/28/79 | | 18658 |
| STACK | | 38 01 30.19 | 930.8 | | 79E(P)5529 | | 18658 |
| | | 122 03 21.11 | 514.9 | | 04/28/79 | | |

| | | | |
|---|---|---|---|
| SVY TP-01057 | LANDMARKS FOR CHARTS TO BE REVISED | RPT UNIT S.P.S.,ROCKVILLE,MD. | PAGE 9 OF 10 |
| JOB CM-7823 | | STATE CALIFORNIA | |
| PRJ SACRA R. | | LOCALITY SUISAN BAY | ORIGINATING ACTIVITY |
| DTM NA 1927 | | DATE 9/10/80 | COMPILATION |

THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

| CHARTING NAME | DESCRIPTION RECORD REASON FOR DELETION PUT TRIANGULATION NAMES IN ( ) | POSITION LATITUDE LONGITUDE | DM DP | CMD ALTEK DGTZD | METHOD AND DATE OF LOCATION OFFICE | FIELD | CHARTS AFFECTED |
|---|---|---|---|---|---|---|---|
| | CHARTED LDMK(S) UNIDENTIFIABLE ON COMPILATION PHOTOGRAPHY. | | | | | | |
| TANK | (RYER ISLAND GARNET POINT | 38 05 39.85 | 1228.7 | NOT | | | 18656 |
| | HIGHER OF TWO TANKS 1939) | 122 02 18.70 | 455.7 | DGTZD | | | 18658 |
| AERO LT | (BENICIA RR BR AERO BN 1979) | 38 02 17.88 | 551.3 | NOT | | | 18656 |
| | FIELD POSITION | 122 07 09.70 | 236.5 | DGTZD | | | 18657 |
| | CHARTED LDMK(S) UNIDENTIFIABLE ON COMPILATION PHOTOGRAPHY. FURNISHED CHARTED POSITION SHOWN. | | | | | | |
| TRIPOD | WEST END OF ROE ISLAND | 38 04 14.77 | 455.4 | NOT | | | 18656 |
| | | 122 02 42.17 | 1027.9 | DGTZD | | | 18658 |
| TRIPOD | EAST OF PT EDITH | 38 03 10.70 | 329.9 | NOT | | | DITTO |
| | | 122 03 30.60 | 746.1 | DGTZD | | | |
| TANK | GRIZZLY ISLAND | 38 09 53.80 | 1658.8 | NOT | | | 18656 |
| | | 122 02 19.06 | 464.0 | DGTZD | | | |

PHOTOGRAMMETRIC BRANCH
PHOTOGRAMMETRY DIDISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

DATATAB VERSION 782707

| | | | |
|---|---|---|---|
| SVY TP-01057 | LANDMARKS FOR CHARTS TO BE REVISED | RPT UNIT S.P.S.,ROCKVILLE,MD. | PAGE 10 OF 10 |
| JOB CM-7823 | | STATE CALIFORNIA | |
| PRJ SACRA R. | | LOCALITY SUISAN BAY | ORIGINATING ACTIVITY |
| DTM NA 1927 | | DATE 9/10/80 | COMPILATION |

THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

| CHARTING NAME | DESCRIPTION RECORD REASON FOR DELETION PUT TRIANGULATION NAMES IN ( ) | POSITION LATITUDE LONGITUDE | DM DP | CMD ALTEK DGTZD | METHOD AND DATE OF LOCATION OFFICE | FIELD | CHARTS AFFECTED |
|---|---|---|---|---|---|---|---|
| | CHARTED LDMK(S) NOT VISIBLE ON COMPILATION PHOTOS AND APPEAR DESTROYED. FURNISHED CHARTED POSITION SHOWN. | | | | | | |
| TANK | WEST BENICIA TANK | 38 03 43.81 | 1350.8 | NOT | | | 18656 |
| | | 122 09 48.78 | 1189.2 | DGTZD | | | 18657 |

FORM C&GS-8352
(3-23-63)

NAUTICAL CHART DIVISION

# RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-01057

## 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.

| CHART | DATE | CARTOGRAPHER | REMARKS |
|---|---|---|---|
| 18658 | 8/05/82 | D. C. Larson | Full ~~Part Before~~ After Verification Review Inspection Signed Via |
| | 8/9/82 | RCS | Drawing No. 35 |
| | | | |
| 18655 | 8-17-82 | DC Larson | Full ~~Part Before~~ After Verification Review Inspection Signed Via |
| | 8/23/82 | RCS | Drawing No. 34 - No correction |
| | | | |
| 18657 | 8-12-82 | D. C. Larson | Full ~~Part Before~~ After Verification Review Inspection Signed Via |
| | 8-23-82 | RCS | Drawing No. 15 |
| | | | |
| 18656 | 8-03-82 | DC Larson | Full ~~Part Before~~ After Verification Review Inspection Signed Via |
| | 8-23-82 | RCS | Drawing No. 50 |
| | | | |
| 18652 | 8-20-82 | DC Larson | Full ~~Part Before~~ After Verification Review Inspection Signed Via |
| | 8-24-82 | RCS | Drawing No. 25 |
| | | | |
| | | | 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 Via |
| | | | Drawing No. |
| | | | |
| | | | Full Part Before After Verification Review Inspection Signed Via |
| | | | Drawing No. |
| | | | |
| | | | Full Part Before After Verification Review Inspection Signed Via |
| | | | Drawing No. |

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

USCOMM-DC 8558-P83