

TP-01250

TP - 01250

NOAA FORM 76-35  
(6-80)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

## DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT BE FIELD EDITED

*Map No.*

TP-01250

*Edition No.*

1

*Job No.*

CM-8305

*Map Classification*

CLASS III (FINAL)

*Type of Survey*

SHORELINE

## LOCALITY

*State*

CALIFORNIA

*General Locality*

CARQUINEZ STRAIT AND SOUTHERN SUISUN BAY

*Locality*

WHEELER ISLAND

19<sub>83</sub> TO 19

REGISTERED IN ARCHIVES

DATE



TP-01250  
COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

|   |               |   |          |                           |  |
|---|---------------|---|----------|---------------------------|--|
| CAMERA(S)<br>Wild RC10(C), (C=88.46mm)  |               | TYPES OF PHOTOGRAPHY<br>LEGEND                |          | TIME REFERENCE            |  |
| TIDE STAGE REFERENCE<br><input checked="" type="checkbox"/> PREDICTED TIDES<br><input type="checkbox"/> REFERENCE STATION RECORDS<br><input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY |               | (C) COLOR<br>(P) PANCHROMATIC<br>(I) INFRARED |          | ZONE<br>Pacific           | <input checked="" type="checkbox"/> STANDARD |
|   |               |   |          | MERIDIAN<br>120th         | <input type="checkbox"/> DAYLIGHT            |
| NUMBER AND TYPE   | DATE          | TIME  | SCALE    | STAGE OF TIDE             |  |
| 83C(C) 0924-0927 *  | Nov. 25, 1983 | 10:49   | 1:30,000 | 1.9 Ft. below MHW         |  |
| 83C(C) 0945-0947 *  | Nov. 25, 1983 | 11:08   | 1:30,000 | 1.9 Ft. below MHW         |  |
| 83C(I) 1013-1015  | Nov. 26, 1983 | 10:43   | 1:30,000 | 1.7 Ft. below MHW         |  |
| 83C(I) 1032-1034  | Nov. 26, 1983 | 10:54   | 1:30,000 | 1.8 Ft. below MHW         |  |
|   |               |   |          | Mean Tide Range = 5.4 Ft. |  |
| 84C(I) 2238-2240  | Mar. 22, 1984 | 11:07   | 1:30,000 | 0.1 Ft. below MLLW        |  |
| 84C(I) 2256-2259  | Mar. 22, 1984 | 11:22   | 1:30,000 | 0.2 Ft. below MLLW        |  |
|   |               |   |          | Mean Tide Range = 4.6 Ft. |  |

REMARKS \*Bridging / Compilation photographs.  
Stage of tide for all photographs is based on predicted tide data from Benicia,  
Army Point gage.

## 2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from office interpretation of the  
above-listed bridging / compilation color photographs using stereo  
instrument methods.

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

There was no mean lower low water line compiled on this project.

## 4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

| SURVEY NUMBER | DATE(S) | SURVEY COPY USED | SURVEY NUMBER | DATE(S) | SURVEY COPY USED |
|---------------|---------|------------------|---------------|---------|------------------|
|               |         |                  |               |         |                  |

## 5. FINAL JUNCTIONS

|         |          |         |          |
|---------|----------|---------|----------|
| NORTH * | EAST *   | SOUTH * | WEST *   |
|         | TP-01251 |         | TP-01249 |

REMARKS This manuscript falls within the limits of project CM-7823, sheet TP-01058,  
scale 1:20,000.

TP-01250

## HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION (Premarking) ☐ FIELD EDIT OPERATION

| OPERATION                           | NAME   | DATE                 |
|-------------------------------------|--|----------------------|
| 1. CHIEF OF FIELD PARTY             | R. Melby   | Mar.-May 1983        |
| 2. HORIZONTAL CONTROL               | RECOVERED BY<br>ESTABLISHED BY<br>PRE-MARKED OR IDENTIFIED BY  | None<br>None<br>None |
| 3. VERTICAL CONTROL                 | RECOVERED BY<br>ESTABLISHED BY<br>PRE-MARKED OR IDENTIFIED BY  | NA<br>NA<br>NA       |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY<br>LOCATED (Field Methods) BY<br>IDENTIFIED BY   | NA<br>NA<br>NA       |
| 5. GEOGRAPHIC NAMES INVESTIGATION   | TYPE OF INVESTIGATION<br><input type="checkbox"/> COMPLETE<br><input type="checkbox"/> SPECIFIC NAMES ONLY<br><input checked="" type="checkbox"/> NO INVESTIGATION |                      |
| 6. PHOTO INSPECTION                 | CLARIFICATION OF DETAILS BY  | None                 |
| 7. BOUNDARIES AND LIMITS            | SURVEYED OR IDENTIFIED BY  | NA                   |

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
|--------------|--------------|--------------|---------------------|
|              |              |              |                     |

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|--------------|-------------|--------------|-------------|
|              |             |              |             |

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

1 Project Field Report

## RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

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

## II. LANDMARKS AND AIDS TO NAVIGATION

N/A

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

| NUMBER | CHART LETTER<br>NUMBER ASSIGNED | DATE<br>FORWARDED | REMARKS                  |
|--------|---------------------------------|-------------------|--------------------------|
|        |                                 |                   | Not required for project |
|        |                                 |                   |                          |
|        |                                 |                   |                          |
|        |                                 |                   |                          |
|        |                                 |                   |                          |
|        |                                 |                   |                          |

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

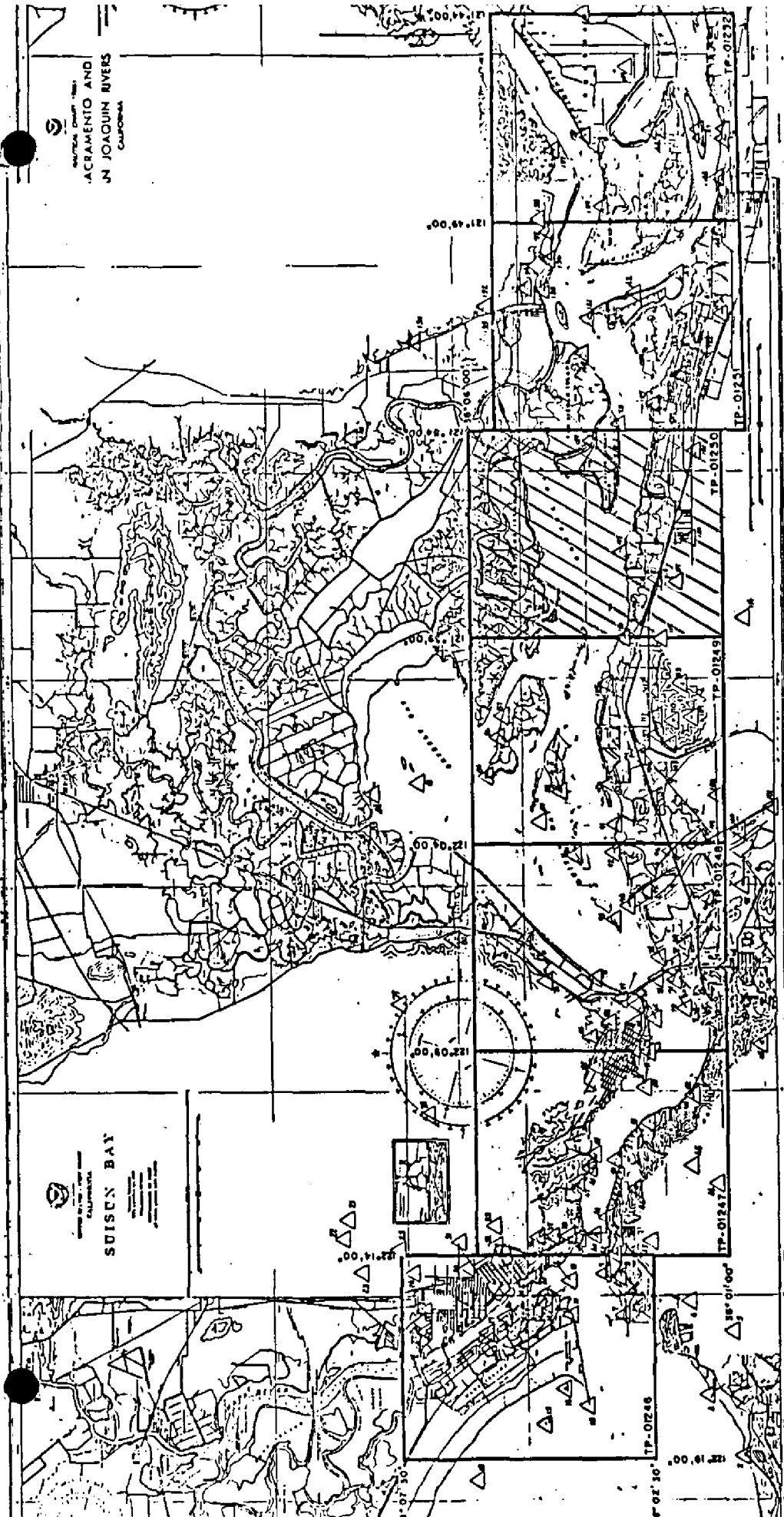
## III. FEDERAL RECORDS CENTER DATA

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

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: \_\_\_\_\_

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

|                   |                                 |                          |   |
|-------------------|---------------------------------|--------------------------|---|
| SECOND<br>EDITION | SURVEY NUMBER<br>TP - _____ (2) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY<br><br>MAP CLASS<br><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<br>EDITION  | SURVEY NUMBER<br>TP - _____ (3) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY<br><br>MAP CLASS<br><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<br>EDITION | SURVEY NUMBER<br>TP - _____ (4) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY<br><br>MAP CLASS<br><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       |   |



SACRAMENTO AND  
 JOAQUIN RIVERS  
 CALIFORNIA

SUISUN BAY  
 CALIFORNIA

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

- LEGEND:
- = 1:50,000 Color (Bridge)
  - = 1:50,000 Color (Competition)
  - = 1:50,000 Black & White (Infrared) MHW
  - = 1:50,000 Black & White (Infrared) MLLW

Scale Photo Coverage  
 1:50,000

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-01250

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 a portion of shoreline in the vicinity of Honker Bay and the entrance to Suisun 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 Washington Science Center in November 1984. Flooded conditions observed on the original bridging photographs required the transferring of the premarked horizontal control stations to the reflight 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 April 1987. Interpretation of detail was complemented by using the infrared photographs. A detailed comparison was made with a registered map copy of TP-01058 from previous shoreline project CM-7823, compiled in 1981.

TP-01250

Final review for this final Class III map was performed at the Atlantic Marine Center in June 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-01250

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.

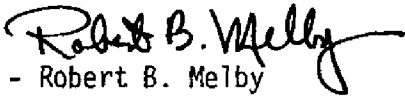


1A  
U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Ocean Service  
Pacific Marine Center  
1801 Fairview Avenue East  
Seattle, Washington 98102

May 5, 1983

N/MOP222/RBM

TO: N/CG2313 - Howard D. Wolfe

FROM:  N/MOP222 - Robert B. Melby

SUBJECT: Photo Field Operations Report; Job CM-8305, Carquinez Strait and Southern Suisun Bay, California

This report covers the area of Carquinez Strait and Southern Suisun Bay, California. The project was assigned to the Pacific Photo Party, Seattle, Washington, to place air photo targets on selected horizontal control stations to control aerotriangulation of the aerial photography.

A white, plastic panel was placed in each of the preselected areas. The panels were secured by lath and stakes. Distances and directions were determined in the field to permit the determination of the coordinates of each center panel. In preselected area #3, station NADEEN 1955 was paneled by the sub.pt. method. When the paneling material was removed later, the center panel was found to be badly torn by cattle. The panel may have been in good condition when the photography was flown. If the photo-image of the center panel is questionable, an alternate photo-identifiable object was selected, and the distance and azimuth was determined to it as a back-up point.

In area #6, the panel is listed as SHERMAN 1931 SUB PT B. Sub pt A, utilizing the same horizontal control station, is a paneled sub.pt. in adjoining Project CM-8304.

No additional horizontal control was established or required.

The paneled station field data has been entered on a Form 76-53, Control Station Identification.

No particular problems were encountered except for unseasonably heavy rains and high water that effected the logistics to a minor degree.



PHOTOGRAMMETRIC PLOT REPORT  
CM-8305

CARQUINEZ STRAIT AND SOUTHERN SUISUN BAY, CALIFORNIA

NOVEMBER 1984

21. AREA COVERED

This report covers the area of Carquinez Strait and Southern Suisun Bay, California. The project consists of seven 1:10,000-scale sheets; TP-01246 through TP-01252.

22. METHOD

Four strips of 1:30,000-scale color photographs were bridged by analytic aerotriangulation methods.

The measurements were made using the National Ocean Service Analytic Plotter (NOSAP) under control of the STK simulation program.

Tie points were used to ensure adequate junction of all strips and, in addition, were used as supplemental control for strip #30-2A and strip #30-2B.

Ratio values were determined for the 1:30,000 bridging photographs and for the 1:30,000 MLLW and MHW infrared photographs. A copy of these values and sketches of the photo coverage are attached to this report.

Base sheets were plotted on the Calcomp 718 plotter using the Lambert Conformal State Plane Coordinate System, California Zone 3.

23. ADEQUACY OF CONTROL

The control was adequate. Horizontal control stations were premarked for "Z" camera photographs which were flown on March 15 and March 31, 1983. These photographs were not used for bridging because they were taken under flooded conditions. The positions of the premarked stations were transferred, using PUG methods, to "C" camera color bridging photographs which were flown on November 25, 1983.

Two stations, CT 74 USN 1954 Sub. Point and Sherman 1931 Sub. Point could not be successfully transferred. Landmarks and fixed aids to navigation were used as control in these areas as well as supplemental control in other areas of the project.

A listing of closures to control is attached.

24. SUPPLEMENTAL DATA

USGS topographic quadrangles were used to obtain vertical control for bridging. NOS nautical charts were used to locate aids and landmarks.

25. PHOTOGRAPHY

The coverage, overlap, and quality of the photographs were adequate for the job.

Submitted by:



Vic McNeel

Approved and Forwarded:



Don O. Norman  
Chief, Aerotriangulation Unit

# FIT TO CONTROL

▲ = Transferred paneled stations held in adjustment

● = Other positions used as control

■ = Tie points used as control

## STRIP #30-1

|      | STATION NAMES  | POINT NO. | VALUES IN FEET |      |
|------|--|-----------|----------------|------|
|      |  |           | X              | Y    |
| ▲ 1. | Amsco 1949, Sub Point  | 916101    | -2.9           | +2.0 |
|      | Mare Island Strait Light 1                                   | 967150    | -0.8           | +0.5 |
|      | Mare Island Strait Light 2                                   | 967151    | +1.1           | +1.9 |
|      | Nadeen 1955, Sub Point Panel                                 | 917101    | +1.2           | -3.3 |
|      | Nadeen 1955, Sub Point Alt.                                  | 917102    | +0.4           | -0.1 |
| ● 2. | Carquinez Strait Light 20                                    | 969150    | +0.7           | -1.2 |
|      | Carquinez Strait Light 22                                    | 969151    | -1.8           | +1.4 |
|      | Carquinez Strait Light 23                                    | 970150    | -0.1           | -0.7 |
| ● 3. | Exxon Refinery Stack, 1977                                   | 953141    | +3.8           | -1.6 |
| ● 4. | Nichols Allied Chem. Tank                                    | 924140    | -0.5           | -3.5 |
|      | Pittsburg Shell Chemical Co.<br>Water Tank, 1932             | 925140    | -0.6           | +0.4 |
|      | Pittsburg, Stockton Firebrick Co.<br>Water Tank, 1932        | 926140    | -2.1           | +0.1 |
| ● 5. | Pittsburg, Johns Manville Co.<br>Water Tank                  | 927140    | -1.0           | +2.9 |
|      | Pittsburg, Columbia Steel Co.<br>Canal Tank, 1950, Sub Point | 928101    | -0.8           | +6.2 |
| ● 6. | Pittsburg, Columbia Steel Co.<br>Canal Tank 1950             | 928100    | -1.8           | +3.0 |
|      | Pittsburg, Columbia Steel Co.<br>River Water Tank, 1950      | 928141    | -0.4           | +1.4 |
|      | San Joaquin River Lt. 19                                     | 932151    | -1.2           | -4.2 |
|      |  |           |                |      |
| ● 7. | San Joaquin River Lt. 23                                     | 933150    | +1.7           | -1.6 |
|      | San Joaquin River Lt. 24                                     | 933151    | +1.0           | -0.3 |

STRIP #30-2A

|       |  |        |      |      |
|-------|--|--------|------|------|
| ●     | San Joaquin River Lt. 24                           | 933151 | +1.9 | +1.0 |
| ● 8.  | San Joaquin River Lt. 25                           | 939150 | +2.2 | +1.4 |
|       | San Joaquin River Lt. 26                           | 939151 | -1.1 | +0.6 |
| ● 9.  | San Joaquin River Lt. 29                           | 939154 | -1.8 | -0.7 |
|       | Tie From Strip #30-1                               | 933801 | +2.3 | -2.9 |
| ■ 10. | Tie From Strip #30-1                               | 933802 | +0.8 | -2.3 |
|       | Tie From Strip #30-1                               | 933803 | +1.6 | -2.1 |
|       | Sacramento River Deep Water Ship<br>Channel Lt. 15 | 940150 | -3.0 | -0.9 |
| ● 11. | Sacramento River Deep Water Ship<br>Channel Lt. 17 | 940151 | -4.1 | +0.1 |
|       | Tie From Strip #30-1                               | 930801 | +6.4 | -3.1 |
| ■ 12. | Tie From Strip #30-1                               | 930802 | +4.6 | -0.2 |
|       | Tie From Strip #30-1                               | 930803 | +4.4 | -1.0 |
|       | Tie From Strip #30-1                               | 926801 | -1.6 | +0.3 |
|       | Tie From Strip #30-1                               | 926802 | -0.3 | +1.0 |
| ■ 13. | Tie From Strip #30-1                               | 926803 | -1.0 | +1.2 |
|       | Tie From Strip #30-1                               | 924801 | -0.8 | +4.8 |
|       | Tie From Strip #30-1                               | 924802 | -3.2 | +1.8 |
| ■ 14. | Tie From Strip #30-1                               | 924803 | -1.7 | +3.1 |
|       | Tie From Strip #30-1                               | 922801 | +0.1 | -0.2 |
|       | Tie From Strip #30-1                               | 922802 | 0.0  | +0.3 |
| ■ 15. | Tie From Strip #30-1                               | 922803 | +1.0 | -2.6 |
|       | Tie From Strip #30-1                               | 922804 | +2.5 | -0.7 |
|       | Tie From Strip #30-1                               | 922805 | +2.2 | -3.3 |
|       | Tie From Strip #30-1                               | 922806 | -0.4 | -4.0 |

STRIP #30-2B

|       |                               |        |      |      |
|-------|-------------------------------|--------|------|------|
|       | Tie From Strip #30-1          | 920801 | -2.1 | -1.4 |
|       | Tie From Strip #30-1          | 920802 | -2.8 | -0.2 |
|       | Tie From Strip #30-1          | 920803 | -4.1 | -5.1 |
| ● 16. | Green House, West Gable, 1939 | 952110 | +0.6 | +0.7 |
| ■ 17. | Tie From Strip #30-1          | 919801 | -0.7 | -2.0 |
|       | Tie From Strip #30-1          | 919802 | -1.2 | -0.3 |
|       | Tie From Strip #30-1          | 919803 | -1.6 | -2.0 |
|       | Tie From Strip #30-1          | 919804 | +0.6 | -1.9 |

|                    |                                |        |      |      |
|--------------------|--------------------------------|--------|------|------|
| ● 18.              | Tie From Strip #30-1           | 920801 | -1.9 | -0.8 |
|                    | Tie From Strip #30-1           | 920802 | -2.4 | +1.1 |
|                    | Tie From Strip #30-1           | 920803 | -3.7 | -3.3 |
| ● 3.               | Exxon Refinery Stack, 1977     | 953141 | +2.1 | +2.6 |
| <u>STRIP #30-3</u> |                                |        |      |      |
| ▲ 19.              | Long Pond 2 RM3 Panel          | 964101 | +0.4 | 0.0  |
|                    | Vallejo Park Circle Tank       | 966141 | +6.6 | +2.4 |
| ● 20.              | Mare Island USN Stack          | 966140 | -2.2 | 0.0  |
|                    | Carquinez Strait, Range Target |        |      |      |
|                    | No. 1, 1932                    | 966150 | +2.6 | +1.0 |
|                    | Carquinez Strait, Range Target |        |      |      |
|                    | No. 2, 1932                    | 966151 | +0.8 | +1.9 |
| ▲ 1.               | Amsco 1949, Sub Point          | 916101 | -1.4 | +2.1 |
|                    | Tie From Strip #30-1           | 916801 | +0.5 | -2.6 |
|                    | Tie From Strip #30-1           | 916802 | +1.4 | -1.3 |
|                    | Tie From Strip #30-1           | 916803 | +0.7 | -2.1 |
|                    | Mare Island Strait Lt. 1       | 967150 | +1.9 | -3.1 |
| ▲ 21.              | Mare Island Strait Lt. 2       | 967151 | +2.8 | -0.9 |
| ▲ 2.               | Carquinez Strait Lt. 20        | 969150 | +0.5 | -1.6 |
| ▲ 22.              | Nadeen 1955, Sub Pt. Panel     | 917101 | +0.6 | -0.3 |
|                    | Nadeen 1955, Sub Pt. Alt.      | 917102 | +0.5 | -1.6 |
|                    | Carquinez Strait Lt. 22        | 969151 | -1.6 | +1.2 |
| ●                  | Carquinez Strait Lt. 23        | 970150 | -0.7 | +0.8 |

RATIO VALUES

CM-8305

1:30,000 Bridging Photographs

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

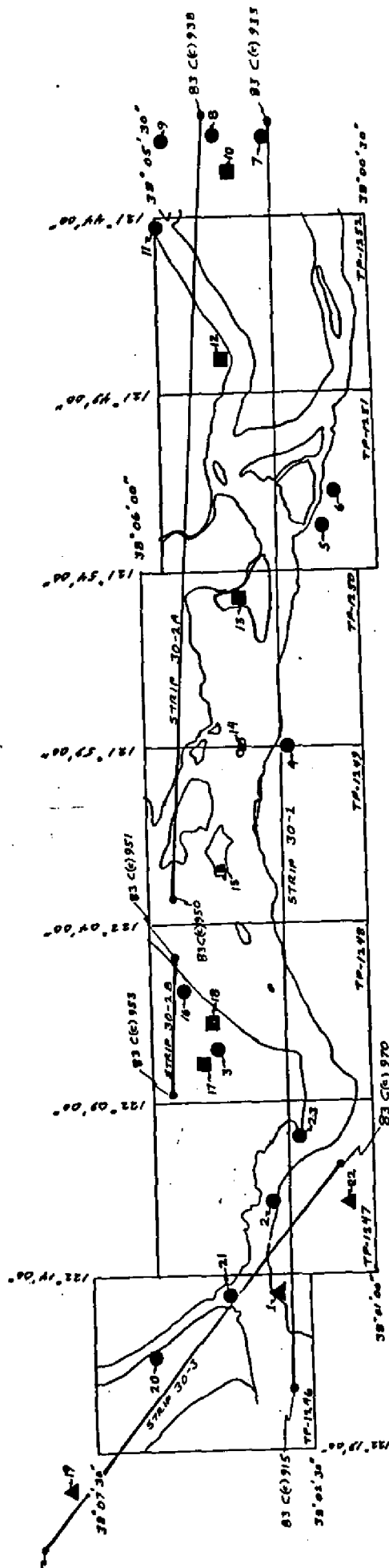
MLLW 1:30,000 Black-and-White Infrared

|                   | <u>Ratio Value</u> |
|-------------------|--------------------|
| 84-C(R) 2207-2213 | 3.04               |
| 2220-2229         | 3.02               |
| 2235-2245         | 3.04               |
| 2251-2261         | 3.04               |

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

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



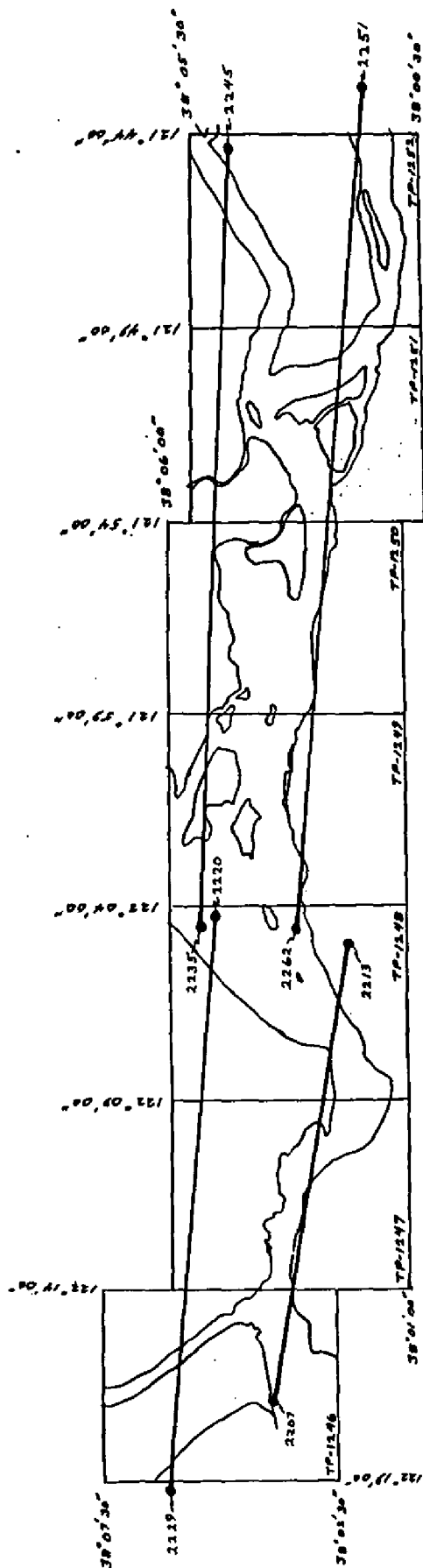


BRIDGING PHOTOGRAPHS  
1:30,000 SCALE

HORIZONTAL CONTROL HEAD:  
▲ = NUMBERED STATIONS  
● = OTHER POSITIONS  
■ = TIE POINTS USED AS CONTROL

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





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

M.L.L.W. BLACK AND WHITE INVERTED PHOTOGRAPHS  
BA C (R) 1:30,000 SCALE



## COMPILATION REPORT

TP-01250

31. DELINEATION:

Delineation was accomplished using Wild B-8 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 bridging/compilation photographs as described in item #31. There was no mean lower low water line compiled on this map.

36. OFFSHORE DETAILS:

Offshore detail was compiled 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 project CM-7823, sheet TP-01058, at a scale of 1:20,000.

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38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Refer to the Data Record Form 76-36B, item 5, of the Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY:

See item #32.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with the following:

U.S.G.S. Quadrangle, Honker Bay, California; dated 1953, photo revised 1980; scale 1:24,000

Class III Shoreline Map, TP-01058; 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

18658; 23rd edition; dated April 6, 1985; scale 1:10,000

18659; 9th edition; dated September 13, 1986; scale 1:10,000

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

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

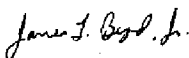
None.

Submitted by:



Paul L. Evans, Jr.  
Cartographic Technician  
January 5, 1987

Approved:



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

APR 31  
1987

GEOGRAPHIC NAMES

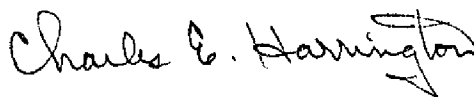
FINAL NAME SHEET

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

TP-01250

|                                   |   |
|-----------------------------------|---|
| Atchison Topeka and Santa Fe (RY) | <del>Noyse</del> Slough -----Noyce Slough |
| Champion Slough                   | Palo Alto, Point                          |
| Chipps                            | Rack Creek                                |
| Chipps Island                     | Roaring River Slough                      |
| Dutton Island                     | Sacramento Northern (RY)                  |
| Duttons Landing                   | Shore Acres                               |
| Freeman Island                    | Simmons Island                            |
| Hammond Island                    | Simmons Point                             |
| Honker Bay                        | Snag Island                               |
| Howard Slough                     | Southern Pacific (RR)                     |
| Mallard                           | Spoonbill                                 |
| Mallard Island                    | Spoonbill Creek                           |
| Mallard Slough                    | Stake Point                               |
| McAvoy                            | Suisun Bay                                |
| McAvoy Boat Harbor (locale)       | Van Sickle Island                         |
| Middle Ground Island              | West Pittsburg                            |
| Mud Slough                        | Wheeler Island                            |
| Norther Slough                    |   |

Approved:



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

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REVIEW REPORT  
SHORELINE

TP-01250

61. GENERAL STATEMENT:

Final review for this final Class III map was accomplished at the Atlantic Marine Center in June 1987. For a schedule of the office and field operations, refer to the Summary included with this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with a registered copy of Class III Map TP-01058, CM-7823, 1:20,000 scale.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangle Honker Bay, California; dated 1953, 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:

18658, 23rd edition, April 6, 1985, scale 1:10,000  
18659, 9th edition, Sept. 13, 1986, scale 1:10,000  
18656, 46th edition, Jan. 19, 1985, scale 1:40,000  
18652, 24th edition, Sept. 14, 1985, scale 1:40,000.



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66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the Project Instructions, and meets the requirements for National Standards of Map Accuracy.

Submitted by:

*Jerry L. Hancock*

Jerry L. Hancock  
Final Reviewer

Approved for forwarding:

*Billy H. Barnes*

Billy H. Barnes  
Chief, Photogrammetric Section, AMC

Approved:

*Jerry O. Roberson*

Chief, Photogrammetric Production Sec.

*A. Y. Bayan*

Chief, Photogrammetry Branch

