5951

Diag'd. on diag. ch. No. 5534

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Air Photo Compilation
Type of Survey Topographic Planimetric

Field No. Office No. T-5951

LOCALITY

State California
General locality Suisun Bay
Locality

1943

CHIEF OF PARTY

Lieut. Comdr. Kenneth G. Crosby

LIBRARY & ARCHIVES

DATE Feb 9, 1948
DATA RECORD

T-5951

Quadrangle (II): Antioch, Calif. Project No. (II): 262


Compilation Office: Tampa, Fla. Chief of Party: K.G. Crosby

Instructions dated (II III): 9/4/41 Copy filed in Descriptive Report No. T-

(VI)

Completed survey received in office: 7-2-43

Reported to Nautical Chart Section: ✓

Reviewed: 1-13-43 Applied to chart No. 5534 Date: Aug 1943

Bedrafting Completed:

Registered: 

{ Preliminary 1-13-43 Published:

Compilation Scale: 1:10,000 Published Scale:

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927 Datum Plane (III): M.S.L.

Reference Station (III): Potrero 1922

(R 296.60 m.)

Lat.: 38°12'09"607 Long.: 121°57'16"300 Adjusted

State Plane Coordinates (VI):

X =

Y =

Military Grid Zone (VI)
PHOTOGRAPHS (III)

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Tide from (III): Meins Landing (Reference Station - San Francisco)
Mean Range: 4.5 ft
Spring Range: 5.9 ft (diurnal)
Camera: (Kind or source) USC&GS 9 lens (64" focal length)

Field Inspection by: Lt. (j.g.) W.J. Chovan date: 1941
Lt. (j.g.) W.C. Russell

Field Edit by: None date:

Date of Mean High-Water Line Location (III): Date of photographs

Projection and Grids ruled by (III) C.H.R. Wash. Offc. date:
" " checked by: W.D.H. Wash. Offc. date:
Control plotted by: R. Lossett, Prin. Photo. Aid date: 12/7/42
Control checked by: A.L. Kidwell, Jr. Topo. Engr. date: 12/8/42
Radial Plot by: Tampa Office Personnel date: 12/19/42

Detailed by: R.D. Eis and C.M. Rivera, Sr. Photo. Aids date: Jan., May, June 1943
Reviewed in compilation office by: G.A. Giles, Asst. Photo. Engr. date: June 1943

Elevations on Field Edit Sheet checked by: date:
STATISTICS (III)

Land Area (Sq. Statute Miles): 29.5

Shoreline (More than 200 meters to opposite shore): 3.9 miles

Shoreline (Less than 200 meters to opposite shore): 33.5 miles

Number of Recoverable Topographic Stations established;

Number of Temporary Hydrographic Stations located by radial plot: 1

Leveling (to control contours) - miles;

Roman numerals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:
26 - CONTROL

There was adequate control on this sheet and every triangulation station could be consistently held during the radial plot.

Reference is hereby made to the Field Inspection report of the Suisun Bay Area, submitted by Lieut. Comdr. L. D. Graham in 1941, in which all triangulation stations appearing on this sheet are listed. Filed in Div of Photogrammetry General Files.

27 - RADIAL PLOT

The discussion of the radial plot which includes this sheet has been made a part of descriptive report for sheet T-5946. Filed in Div of Photogrammetry-General Files.

28 - DETAILING

The photographs used in detailing this sheet were clear and adequate.

The field inspection along Montezuma Slough shoreline was adequate. However, inland notes by the field inspection party around the Potrero Hills area were too scattered and some difficulty was experienced in determining the type of vegetation. It was only through discussing areas not field inspected with more experienced draftsmen and by comparing, whenever possible, with those areas field inspected, that an accurate interpretation has been reached.

29 - SUPPLEMENTAL DATA

A general highway map of Solano County, California, to obtain highway numbers and assist in classifying roads was used.

34 - LANDMARKS AND AIDS TO NAVIGATION

There are no prominent uncharted landmarks nor non-floating aids within the detailing limits of this sheet.

35 - HYDROGRAPHIC CONTROL

There are 11 unmarked hydrographic stations on this sheet that may be recovered for future use by the hydrographic party. Reference is hereby made to the field inspection report of Lieut. Comdr. L. D. Graham covering the Suisun Bay Area, in which these stations are listed. This report was submitted by Lieut. Comdr. Graham to the Washington Office in 1941.
GEOGRAPHIC NAMES

Reference is made to a letter from the Acting Director dated December 2, 1942, Reference 28-PFA-1990, in which this office is authorized to omit the geographic names, except those so well established as to be correct beyond question, and that other names will be added by the Washington Office at a later date.

COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

A comparison was made with the U. S. Geological Survey, Denverton, Solano County, California Quadrangle and due to a large scale difference an accurate comparison could not be made, but in general they are in good agreement.

COMPARISON WITH NAUTICAL CHARTS

This sheet compares favorably with U. S. Coast & Geodetic Survey, Chart No. 5534, corrected to August 12, 1942, except that on the above mentioned chart the central and eastern part of Grizzly Island appears as a marsh area and now the land has been reclaimed for cultivation by constructing levees around the areas and digging drainage ditches.

Respectfully submitted,

Oscar M. Rivera

Oscar M. Rivera
Senior Photogrammetric Aid

Forwarded by:

Kenneth G. Crosby
Chief of Party...
Division of Photogrammetry
Review Report of
Planimetric Map Manuscript T-5951

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

26. **Control.**

A triangulation station, Luco, 1922, was added to the map manuscript.

The following stations that were shown as triangulation stations on the map manuscript, were changed to recoverable topographic stations:

- Low Red Tank, 1942
- Tank, Wood, Near Trees, 1942

Form 524 cards were filed in the Division of Photogrammetry, General Files. The positions for these stations were established by the field inspection party with sufficient accuracy for the control of the radial plot but they are of less than third-order accuracy. The computations are filed in the Bureau Library.

30. **Mean High Water Line.**

The symbolization of the shoreline and grass in water along Montezuma Slough was changed to conform with Photogrammetry Instructions No. 17, 1947.

34. **Landmarks and Aids to Navigation.**

A form 567 was made out for the San Francisco-Medford Airway Beacon No. 3. Copies were forwarded to the Nautical Charts and Aeronautical Charts Sections.

35. **Hydrographic Control.**

The names and descriptions of the photo-hydro stations were removed from the map manuscript. The reference numbers used by the field party were added. The list of the photo-hydro stations in this area and their descriptions is part of the Field Inspection Report of the Suisun Bay area filed in the Division of Photogrammetry, General Files.

44. **Comparison with Existing Topographic Surveys.**

| USGS Carquinez Quadrangle | 1:62,500 | 1901 |
| Antioch Quadrangle        | 1:62,500 | 1906 |
| Vacaville Quadrangle      | 1:62,500 | 1908 |
| Denverton Quadrangle      | 1:31,680 | 1918 |
| Suisun Quadrangle         | 1:31,680 | 1918 |
| T-1893                    | 1:10,000 | 1888 |
The surveys are in good agreement with the map manuscript with the following exceptions:

The bridge shown across Cross Slough on the surveys is not shown on the map manuscript.

Many roads, levees, ditches, houses and a power line that are shown on the map manuscript do not appear on the surveys.

45. Comparison with Nautical Charts.

Chart No. 5534-1:40,000-1/4/6

The map manuscript has been applied to the nautical chart and they are in excellent agreement with the following exceptions:

The ferry crossing, piers and cable crossing at Montezuma Slough are not shown on the chart.

The sunken barge in Frost Slough is not shown on the chart.

Two sections of the shoreline of Montezuma Slough are shown as unsurveyed on the chart. The map manuscript now shows these sections with a solid line, limits of vegetation. See paragraph 30 of this report.

Reviewed by: Reviewed under direction of:

Charles Theurer S. V. Griffith
1-13-48 Chief, Review Section

APPROVED:

Technical Asst. to the Chief, Div. of Photogrammetry

Chief, Nautical Chart Div. Division of Charts

Chief, Div. of Photogrammetry Chief, Div. of Coastal Surveys
I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks, be charted on (deleted from) the charts indicated.

The positions given have been checked after listing by

S. V. Griffith

<table>
<thead>
<tr>
<th>STATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
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<td>Airway Beacon No. 3</td>
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<td>127.57</td>
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Copies forwarded to

Aeronautical Charts

Nautical Charts

1-12-48

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
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Names underlined in red are approved. 1/20/48