

# 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

B-1870-1 (1)

# 5951

## DATA RECORD

T- 5951

Quadrangle (II): Antioch, Calif.

Project No. (II): 262

Field Office: San Francisco, Calif. Chief of Party: L.D.Graham

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)Division of Photogrammetry  
Office Files.

Completed survey received in office: 7-2-43

Reported to Nautical Chart Section: ✓

Reviewed: 1-13-48

Applied to chart No. 5534

Date: Aug 1943

Redrafting Completed:

Registered:

{ Preliminary 1-13-48

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

Lat.: 38°12'09"607

(296.21 m.)

Long.: 121°57'16"300

(396.60 m.)

Adjusted

~~Unadjusted~~

State Plane Coordinates (VI):

X =

Y =

Military Grid Zone (VI)

Tide from (III): Meins Landing (Reference Station - San Francisco)

Camera: (Kind or source) USC&GS 9 lens ( $8\frac{1}{4}$ " focal length)

Field Edit by: Nphe date:

Projection and Grids ruled by (III) C.H.R. Wash.Offc. date:

" " " checked by: W.D.H.Wash.Offc. date:

Control plotted by: R.Dossett, 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.

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: 14

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:



DESCRIPTIVE REPORT  
TO ACCOMPANY  
SHEET NO. T-5951

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.  
See review report

35- HYDROGRAPHIC CONTROL

There are 14 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.



38- GEOGRAPHIC NAMES Approved list filed in Div. of Charts, Geographic Names Section.

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.

44- 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.

45- 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 Grizzley 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*  
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	1908
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. 5534-1:40,000-1946

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.

*ferry crossing & piers added  
cable crossing not to be shown  
sunken barge added  
to 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.

*shoreline  
revised on  
chart*

Reviewed by:

Reviewed under direction of:

Charles Theurer  
C. Theurer  
1-13-48

S. V. Griffith  
S. V. Griffith, Jr.  
Chief, Review Section

APPROVED:

B. J. Jones 1/48  
Technical Asst. to the  
Chief, Div. of Photogrammetry

H. R. Rutenburg  
Chief, Nautical Chart Br.  
Division of Charts

K. T. Adams  
Chief, Div. of Photogrammetry

C. K. Green  
Chief, Div. of Coastal Surveys



## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

**STRIKE OUT ONE**

Washington office Jan. 12, 1948

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 \_\_\_\_\_

[illegible]

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.



## GEOGRAPHIC NAMES

Survey No.

T-5951

[illegible]