DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton, Director

State: California

DESCRIPTIVE REPORT

Topographic | Sheet No. T-5001.
Hydrographic

LOCALITY
Sacramento River,
Rio Vista to Georgiana Slough.

1933.

CHIEF OF PARTY
M. H. Reese.
Applied to drawing of chart 5527
Jan 8, 1935 - JFW.
Descriptive Report to Accompany
Air-photo Topographic Sheet T-5001.

See Descriptive Report T-4685 for general report of Field Inspection

General Information:

a. Date of Instructions - November 15, 1932.

b. Sheet data-
Projection by M. H. R. Jan. 30, 1933.
Control plotted by E. L. F. Jan. 31, 1933.
Control checked by M. H. R. Feb. 1, 1933.
Radial line plot by E. L. F. Feb. 2 - Feb. 14, 1933.
Drafting of Photographs by W. H. B. Feb. 20 - Apr. 15, 1933.

c. Statistics-
Area of sheet: 247.9 sq. statute miles.
Shoreline of Rivers and Sloughs more than 300 meters wide: 12.0 statute miles.
Shoreline of Rivers and Sloughs less than 300 meters wide: 32.0 statute miles

d. Reports affecting sheet-
U.S. Engineer blueprints of the Sacramento River. Geological Survey sheets. The information shown on the sheet is confined to notes made on the photographs by the photo inspection party. The area covered by the sheet is practically all cultivated fields. The area west of the Sacramento River at the western limits is covered with bare sand hills. There is quite a lot of brush over-hang along the shoreline of the rivers and sloughs. Notes were made by the inspection party as to the amount of over-hang. The draftsmen drew in the supposed actual highwater line according to the field notes. The sides of the levees next to the water are covered with brush and trees as a rule. The sheet does not show this information as it crowds the detail. In compiling the charts the buildings on the inland side of levees should not be shown unless specified by the hydrographic party. The height of the levees make most of these buildings invisible from the water.

e. Numbers, time, and date, of flights-
SS. 381 - 399, 10:00 A.M. December 15, 1931.
SS. 399 - 414, 10:30 A.M. December 15, 1931.
SS. 470 - 487, 11:00 A.M. December 15, 1931.

Control:

a. Sources-
2. Three point fixes by L. P. Raynor, 1932.
Control: (continued),

b. The following U. S. Engineer stations were found to be in error,

<table>
<thead>
<tr>
<th></th>
<th>Computed value</th>
<th>Photo plot value</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S.E. 6</td>
<td>Lat. 38 07 (1227.5)</td>
<td>Lat. 38 07 (1225.0)</td>
</tr>
<tr>
<td></td>
<td>Long. 121 41 (320.7)</td>
<td>Long. 121 41 (317.0)</td>
</tr>
<tr>
<td></td>
<td>Lat. 38 08 (911.5)</td>
<td>Lat. 38 08 (909.0)</td>
</tr>
<tr>
<td>U.S.E. 7</td>
<td>Long. 121 41 (1408.8)</td>
<td>Long. 121 40 (1398.0)</td>
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<tr>
<td></td>
<td>Lat. 38 09 (439.4)</td>
<td>Lat. 38 09 (436.0)</td>
</tr>
<tr>
<td>Old U.S.E. 105</td>
<td>Lat. 38 09 (1410.7)</td>
<td>Lat. 38 09 (1387.0)</td>
</tr>
<tr>
<td></td>
<td>Long. 121 36 (169.0)</td>
<td>Long. 121 36 (134.0)</td>
</tr>
</tbody>
</table>

Compilation:

a. Method used—
The radial line plot as applied to five lens photographs was used throughout the entire sheet.

b. Junctions with adjoining sheets—
Satisfactory junctions were obtained with T-4686 except in the following areas. In the vicinity of Lat. 38 07.2, Long. 121 36 the ditches failed to match by about 7 meters. The azimuths of the ditches agreed. The two ditches in the extreme SE corner of the sheet failed to check by 17 meters, the azimuths agreed. The shoreline of the north fork of the Mokelumne River in the same vicinity joined very good. Satisfactory junctions were obtained with sheets T-5013 and T-5002.

Landmarks:

Landmarks for the sheet were submitted by the field party. Additional objects located by the compilation party are submitted on form 567.

M.H. Reese,
Lieut. (j.g.), C. & G. Survey.
The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 12

REGISTER NO. T-5001.

State. California.

General locality. Sacramento River.

Locality. Rio Vista to Georgiana Slough.

Date of Photographs. December 15, 1931.

Compilation. April 15, 1933.

Scale. 1:10,000

Reviewed and recommended for approval


U.S. Army Air Corps, FIA airplane. Capt. A. W. Stevens, Photographer.

Chief of Compilation. M. H. Reese, May 24, 1933.

Photographs plotted by E. L. Fitch, Feb. 14, 1933.

Inked by M. H. Burwell, Apr. 15, 1933.

Heights in feet above to ground to tops of trees

Contour. Approximate contour, Form line interval feet

Instructions dated November 15, 1932.

Remarks:

Compilation of aerial photographs Nos. SS 361-388, 399-414, and 470-487. Reduced to scale and printed by photo lithographic process.

Polyconic projection by M. H. Reese, Jan 30, 1933.

Projection verified by E. L. Fitch, Jan 30, 1933.

Control plotted by E. L. Fitch, Jan 31, 1933.

Control verified by M. H. Reese, Feb. 1, 1933.
REVIEW OF TOPOGRAPHIC SURVEY No. 5001

Title: (Par. 56) Be W. to S., E., S. E., Sacramento River, California.


Instructions dated May 15, 1931. Surveyed April 15, 1932.

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.)

2. The character and scope of the survey satisfy the instructions.

3. The control and closures of traverses were adequate. (Par. 12, 29.)

4. The amount of vertical control that the Manual specifies for contours-formlines was accomplished. (Par. 18, 19, 20, 21, 22, 23.)

5. The delineation of contours-formlines is satisfactory. (Par. 49, 50.)

6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.)

7. High water line on sandy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 45, 44.)

8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.)

9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) There are no previous surveys by the Coast Survey.

10. The span, draw and elevation of bridges are shown. (Par. 16c.)

11. Locations and elevations of summits are given. (Par. 19, 51.)

12. The tree line was shown on mountains. (Par. 16c.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.
13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.)

14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.

15. The descriptions of recoverable stations and references to shore line were accomplished on Form 564. (Par. 29, 30, 57, 67 except scaling of IMs and DPs, 69.) Assumption, reference stations shall be submitted on Form 524 by J. N. Haynes during his survey. For check accuracy.

16. A list of landmarks for charts furnished on Form 567 and plotting checked, (Par. 15d, e, 60.) by the field party, and as on file at headquarters.

17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.)

18. The geographic datum of the sheet is N.A. 1927 and the reference station is correctly noted. (Par. 34.)

19. Junctions with contemporary surveys are adequate. The differential maintained in the work were investigated and a good solution obtained 74.66. Slight errors in the altitude of the south east corner of the sheet were found but not.

20. Geographic names are shown on the sheet and are covered by the descriptive report. (Par. 64, 56k.). — The name deletion was measured twice.

21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.)

22. No additional surveying is recommended.

23. The Chief of Party inspected and approved the sheet and the descriptive report after review by

24. Remarks: See page 567 for additional objects submitted on Form 567 to the completion point, but a copy of these objects is not attached to the report.

Reviewed in office by Frank C. Fishiet, November 29, 1933.

Examined and approved:

K. T. Adams
Chief, Section of Field Records

Fred Ordine
Chief, Section of Field Work

L. E. Searle
Chief, Division of Charts

Fred Adams
Chief, Division of Hyd. and Top.
<table>
<thead>
<tr>
<th>Status</th>
<th>Name on Survey</th>
<th>Name on Chart</th>
<th>New Names in local use</th>
<th>Names assigned by Field</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Sacramento River v</td>
<td>(\checkmark) U.S.G.B.</td>
<td></td>
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<tr>
<td></td>
<td>Cache Slough v</td>
<td>(\checkmark) All maps agree</td>
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<tr>
<td></td>
<td>Steamboat Slough v</td>
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<td></td>
<td>Grand Island v</td>
<td>(\checkmark)</td>
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<tr>
<td></td>
<td>Ida Island v</td>
<td>(\checkmark)</td>
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<tr>
<td></td>
<td>Rio Vista v</td>
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<td></td>
<td>Georgias Slough v</td>
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<tr>
<td></td>
<td>North/Mokelumue River v</td>
<td>(\checkmark) elete, is off sheet</td>
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<tr>
<td></td>
<td>Mokelumue River v</td>
<td>(\checkmark) ALL maps agree, Place as indicated.</td>
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<tr>
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<td>Boulder Island v</td>
<td>(\checkmark) Insert as indicated.</td>
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<tr>
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<td>Tyler Island v</td>
<td>(\checkmark)</td>
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<tr>
<td></td>
<td>Andrus Island v</td>
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<tr>
<td></td>
<td>Brennan Island v</td>
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<tr>
<td></td>
<td>Tritchell Island v</td>
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<tr>
<td></td>
<td>Tomato Slough v</td>
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<td>Note additional placing of name</td>
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<tr>
<td></td>
<td>Jackson Slough v</td>
<td>(\checkmark)</td>
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<tr>
<td></td>
<td>Smith Slough v</td>
<td>(\checkmark)</td>
<td>Add name</td>
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<tr>
<td></td>
<td>Bell Slough v</td>
<td>(\checkmark)</td>
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<td></td>
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<tr>
<td></td>
<td>Sevenmile Slough v</td>
<td>(\checkmark)</td>
<td>Not Seven Mile Slough</td>
<td></td>
<td></td>
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<tr>
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<td>Duck Island v</td>
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<td>See noted.</td>
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<tr>
<td></td>
<td>Isleton v</td>
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<td>U.S. Postal Guide, 1934</td>
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<td></td>
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<tr>
<td></td>
<td>Vormans Landing v</td>
<td>(\checkmark)</td>
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<td>(\checkmark)</td>
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</table>

For references consult see DH for T-4685, RMS.
Add. (Geog Names in BL, rectified) Mxid.
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