

5001

U. S. COAST & GEODETIC SURVEY  
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DEC 3 1933

Acc. No.

Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: California.

DESCRIPTIVE REPORT

Topographic  
~~Hydrographic~~

Sheet No. T-5001.

LOCALITY

Sacramento River.

Rio Vista to Georgiana Slough.

1933.

CHIEF OF PARTY

M. H. Reese.

U. S. GOVERNMENT PRINTING OFFICE: 1927

5001

Applied to drawing of chart 5527

Jan 8, 1935 - J.F.W.

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.
  - Projection checked by E. L. F. 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; 24.8 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 - 398, 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-
  - 1. First and Second Order by John Bowie, 1931. Adjusted to N. A. Datum 1927.
  - 2. Three point fixes by L. P. Raynor, 1932.
  - 3. U. S. Engineer Stations reduced to geographical coordinates by L. P. Raynor, 1932.

Control: (continued),

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

	Computed value	Photo plot value	
	(622.5)	(625.0)	
U.S.E. 6	Lat. 38 07 1227.5	Lat. 38 07 1225.0	2.5m.
	(1140.5)	(1144.0)	
	Long. 121 41 320.7	Long. 121 41 317.0	3.7m.
	(938.6)	(941.0)	
U.S.E. 7	Lat. 38 08 911.5	Lat. 38 08 909.0	2.5m.
	(1408.8)	(63.0)	
	Long. 121 41 52.4	Long. 121 40 1398.0	7.1m.
	(439.4)	(463.0)	
B.P. plotting parties aerial photography confusion of old and new locations shown.	Old U.S.E. 105 Lat. 38 09 1410.7	Lat. 38 09 1387.0	23.0m.
	(169.0)	(134.0)	
	Long. 121 36 1291.7	Long. 121 36 1327.0	35.3

Compilation:

old location

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*

M.H. Reese,  
Lieut.(j.g.), C. & G. Survey.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

T-5001.

Air photo TOPOGRAPHIC TITLE SHEET

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.

Scale 1:10,000 Date of ~~survey~~ <sup>Compilation</sup> April 15, 1933.

~~Used~~ <sup>Lieut. J. F. Phillips, Pilot.</sup>  
~~Army Air Corps F1A airplane.~~ <sup>Capt. A. W. Stevens, Photographer.</sup>

Reviewed and recommended for approval

Chief of ~~survey~~ <sup>Compilation</sup> M. H. Reese, May 24, 1933.

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

Inked by W. 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. 381-398, 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) *Reo Vista to Georgiana Slough, Sacramento River, California*Chief of Party *M. H. Reese* *Photos plotted* Surveyed by *E. L. Fitch* Inked by *W. H. Sumrell**Army Air Corps F/A Airplane*  
~~Ship~~Instructions dated *Nov. 15/1932* *Rec. 15, 1931*  
~~Surveyed on~~ *April 15, 1933*

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~~ *adjustments of radial plot* 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 marshy and mangrove coast~~ is clear and adequate for chart compilation. (Par. 16a, 43, 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~~ *type* and ~~elevation~~ of bridges are shown. (Par. 16c.) *The elevations were not reported by the field inspection*
- ~~11. Locations and elevations of summits are given. (Par. 19, 51.)~~
- ~~12. The tree-line was shown on mountains. (Par. 16g.)~~

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 524. (Par. 29, 30, 57, 67-except scaling of IMs and DPs, 68.)~~ *Descriptions of recoverable stations were submitted on form 524 by L.P. Reynor during his hydrographic work in this vicinity.*
16. ✓ A list of landmarks for charts was furnished on Form 567 and plotting checked, (Par. 16d, e, 60.) *by the field inspection and is on file and chart title.*
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 discrepancies mentioned in the report were investigated and a good junction effected with T-46 86. Slight errors in the sketch in the south east corner of the sheet were found & corrected.*
20. ✓ Geographic names are shown on the sheet ~~and~~ <sup>but not</sup> are covered by the Descriptive report. (Par. 64, 66k.) *—The name "Sutton" was misspelled some times.*
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: *The Recon. Report mentions additional objects submitted on form 567 by the compilation party, but a copy of these objects is not attached to the report.*

Reviewed in office by *Frank G. Eiskine November 29, 1933*

Examined and approved:

*K.T. Adams*  
Chief, Section of Field Records

*L.O. Polbatt*  
Chief, Division of Charts

*H. Borden*  
Chief, Section of Field Work

*G. E. Lee*  
Chief, Division of Hyd. and Top.

# GEOGRAPHIC NAMES

Survey No. T-5001

H-6006

Date. Dec. 7, 1934

HMS

Names approved Dec. 7, 1934. H. Bacon

Chart No. \_\_\_\_\_

Diagram No. \_\_\_\_\_

\* Approved by the Division of Geographic Names, Department of Interior.

Ø Not Approved by the Division of Geographic Names, Department of Interior.

R, Referred to the Division of Geographic Names, Department of Interior.

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Sacramento River</u> ✓	U.S.G.B.			
	<u>Cache Slough</u> ✓	All maps agree			
	<u>Steamboat Slough</u> ✓	"			
	<u>Grand Island</u> ✓	"			
	<u>Ida Island</u> ✓	"			
	<u>Rio Vista</u> ✓	"			
	<u>Georgiana Slough</u> ✓	"			
	<sup>Fork</sup> <u>North/Mokelumne River</u> ✓	delete, is off sheet			
	<u>Mokelumne River</u> ✓	ALL maps agree. Place as indicated.			
	<u>Bouldin Island</u> ✓	" Insert as indicated.			
	<u>Tyler Island</u> ✓	"			
	<u>Andrus Island</u> ✓	"			
	<u>Brennan Island</u> ✓	"			
	<u>Twitchell Island</u> ✓				
	<u>Tomato Slough</u> ✓	" Note additional placing of name			
	<u>Jackson Slough</u> ✓	"	"		
	<u>Smith Slough</u> ✓	" Add name			
	* <u>Ball Slough</u> ✓	"			
	<u>Sevenmile Slough</u> ✓	" Not Seven Mile Slough			
	<u>Duck Island</u> ✓ OK <sup>He</sup>	See noted.			
	<u>Isleton</u> ✓	U. S. Postal Guide, 1934,			
	* <u>Yormans Landing</u> ✓ <sup>OK</sup>				
For references consulted see DR for T-4685, HMS.					
*Add. (Geog Names in B.R. verified) HMS.					

38-08  
121-34½

(M 100)



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~~Vessels~~ Army Air Corps F1A airplane. Lieut. J. F. Phillips, Pilot.  
Capt. A. W. Stevens, Photographer.

Reviewed and recommended for approval

Chief of ~~party~~ <sup>Compilation</sup> M. H. Reese May 24, 1933.

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