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Form 504
Ed. June, 1928

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

State: California.

DESCRIPTIVE REPORT

Topographic } Sheet No. T-5002.
~~Hydrographic~~ }

LOCALITY

Sacramento River.

Morse
Elkhorn Slough to Deadhorse Island.

1933.

CHIEF OF PARTY

M. H. Reese.

Descriptive Report to Accompany
Air-photo Topographic Sheet T-5002.

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	J. B. M. Feb. 11, 1933.
Projection checked by	M. H. R. Feb. 11, 1933.
Control plotted by	J. B. M. Feb. 13, 1933.
Control checked by	M. H. R. Feb. 13, 1933.
Radial line plot by	J. B. M. Feb.17-Mar.4, 1933.
Drafting of Photographs by	J. B. M. Mar.5-May 2, 1933.
- c. Statistics-

Area of sheet; 27.0 sq. statute miles.
Shoreline of Rivers and Sloughs less than 300 meters wide - 51.1 statute miles.
- d. Reports affecting sheet-

U. S. Engineer blueprints of the Sacramento River filed in the Washington office.
The sheet was compiled chiefly from notes made on the photographs by the field inspection party. A complete set of notes was furnished by the field inspection party and the draftsman had very little difficulty in interpreting the detail shown on the photographs. There is quite a bit of brush overhang along the shoreline of the rivers and sloughs. Notes were made by the field party as to the amounts of overhang. With this information and the aid of the stereoscope the draftsman drew the supposed actual highwater line.
The character of the area covered by the sheet is cultivated fields and orchards bordering along the sloughs and rivers. The fields and orchards are subdivided by numerous ditches and canals. Levees exist on both sides of the river and sloughs. As a rule the area between the top of the levee and the shoreline is covered with brush and trees. This information does not appear on the sheet as it crowds the detail.
- e. Numbers, time, and date, of photographic flights-

SS. 326 - 340,	9:45 A. M.,	December 15, 1931.
SS. 376 - 389,	10:00 A. M.,	December 15, 1931.
SS. 271 - 286,	2:00 P. 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.

*
 Error due to furnishing in error
 coordinates of a buoy
 in mid-channel.
 shown.

b. The following U. S. Engineer station was found to be

	Computed value		Photo plot value
	(446.5)		(447.0)
U.S.E.B.M. 22	Lat. 38 13 1403.5	Lat.	38 13 1403.0
	* (1010.9)		(1162.0) OK
	Long. 121 33 448.5	Long.	121 33 297.0

Compilation:

a. Method used-

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

b. Junctions with adjoining sheets-

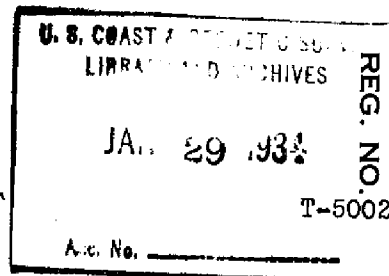
satisfactory junctions were obtained with sheets T-5016, T-5003, T-5018, and T-5013, 5019, and 5001

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.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY



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. 15

REGISTER NO. T-5002.

State California

General locality Sacramento River

Locality ^{Morse} Elkhorn Slough to Deadhorse Island

Date of photographs December 15, 1931

Scale 1:10,000 Date of ^{Compilation} ~~survey~~ May 2, 1933

Lieut. J. F. Phillips, Pilot.

~~Used~~ Army Air Corps FIA airplane. Capt. A. W. Stevens, Photographer

Reviewed and recommended for approval

Chief of ~~party~~ ^{Compilation}

M. H. Reese
M. H. Reese, May 24, 1933

Photographs plotted by

~~Survey party~~

James B. Moreland

J. B. Moreland, Mar. 4, 1933

Inked by

J. B. M.

J. B. Moreland, May 2, 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. 326-340, SS. 376-389, and SS. 271-286. Reduced to scale and printed by photo lithographic process.~~

Polyconic projection by

J. B. M.

J. B. Moreland, Feb. 11, 1933

Projection verified by

M. H. Reese

M. H. Reese, Feb. 11, 1933

Control plotted by

J. B. M.

J. B. Moreland, Feb. 13, 1933

Control verified by

M. H. Reese

M. H. Reese, Feb. 13, 1933

REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. 5002

Title (Par. 56) *Sacramento River, Three Slough to Washoe Island, Cal*
 Chief of Party *M. H. Reese* Compiled by *J. B. Moreland*
 Project *Sacramento-San Joaquin* Instructions dated *Nov. 15, 1932*

1. ✓ The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 8; and 16, a, b, c, d, e, g and i.)
2. ✓ The character and scope of the compilation satisfy the instructions and the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
3. ✓ The control and adjustment of the radial plot were adequate. (Par. 12, 29.)
4. ~~There is sufficient control on maps from other sources that were transmitted by the field party for their application to the charts. (Par. 28.)~~
5. ✓ High water line on marshy ~~and mangrove~~ coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
6. ~~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.)~~
7. ✓ Important details shown on previous surveys and on the chart have been compared with this sheet and a statement has been entered in the report regarding the removal from the chart or change in position of important detail such as rocks, lights, beacons, prominent objects, bridges, docks, and structures along the water front. *There is no previous coast survey chart of this area*
8. The span, ~~draw~~ ^{type} and clearance of bridges are shown. (Par. 16c.)
9. ✓ The data furnished by the Field Inspection is adequate.

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.

10. ✓ The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)
11. ✓ The descriptive report also contains all additional information required in photo topography as prescribed in the instructions and in the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
12. ✓ The descriptions of recoverable stations and references to shore line were accomplished on Form 524, and scaling of positions checked. (Par. 29, 30 and 57.) *Descriptions of recoverable stations will be submitted by R.P. Kayser on form 524 during the hydrographic survey of the area.*
13. ✓ A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.) *List of landmarks submitted by the field inspectors are in full as sheet letters.*
14. ✓ The geographic datum of the sheet is *N.A. 1927* and the reference station is correctly noted. (Par. 34.)
15. ✓ Junctions with contemporary surveys are adequate.
16. ✓ Geographic names are shown on the sheet and are *partially* covered by the Descriptive Report. (Par. 64, 66k.)
17. ✓ The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46.)
18. ✓ No additional surveying is recommended.

19. Remarks:

20. Examined and approved:

Chief of Party

21. Remarks after review in office:

Reviewed in office by: *Frank G. Enskine* *Feb. 20, 1934*

Examined and approved:

K.T. Adams
Chief, Section of Field Records

L.O. Solbut.
Chief, Division of Charts

H.S. Borden
Chief, Section of Field Work

G. Hude
Chief, Division of
Hydrography and Topography.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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.

REGISTER NO. 5002a

State California

General locality Sacramento River

Locality Morse Slough to Deadhorse Island

Scale 1:10,000 Date of survey July, 1934, 192

Vessel

~~XXXXXXXXXXXX~~ Corrections applied by D.H. Benson. Survey was

~~XXXXXXXXXXXX~~ checked and submitted by F.C. Erskine

Inked by

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated, 192

Remarks: Photo-Lithographic Process. Correction to T 5002

DESCRIPTIVE REPORT TO ACCOMPANY
AIR PHOTO TOPOGRAPHIC SHEET NO. 5002 A
(to be included in report for T-5002)

Morse Slough to Deadhorse Island, Sacramento River, California.

This sheet contains corrections (shown in red) to the original survey of this area.

Sources of Information: Hydrographic Survey No. 6009; Sheets 52a, 53a, and 70, Air Photo Sections files; Letters 610 and 14, Air Photo Section files; descriptions of recoverable stations on form 524.

Compilations: Sheet No. 70 contained additional geographic names.

Plane table revision sheets 52a and 53a consisting of shoreline corrections to the Sacramento River were applied by *L. H. Benson* and checked by *Frank G. Erskine*. The descriptive report for this revision accompanies this report.

Letter No. 6, a tracing, consisted of a shoreline correction for the entire length of Georgiana Slough. The hydrographic survey also contained a tracing of this slough with the soundings plotted. The two tracings disagreed in several places - letter No. 6 running the shoreline ~~thru~~ soundings. As this shoreline was obtained from simultaneous range finder readings taken from the center line sounding line (see descriptive report H-6009), it is believed that the hydrographic tracing is the more accurate and it was used in the various places of disagreement.

The hydrographic survey (H-6009), in addition to the information discussed above, supplied bridge and overhead cable clearances and several minor additions and deletions.

Respectfully submitted,

Frank G. Erskine

Frank G. Erskine.

November 1, 1934.

NAMES: There are no charts covering the area of this project except chart 5534 at the junction of the Sacramento and San Joaquin Rivers. The following maps filed as Blueprints were furnished by the field party with corrections made from field examination to show the names in local use and have been used in making the corrections to compilations on this project.

Capt. Weathers Map (1931)-- BP.-25708

U.S.G.S. Quadrangles-- BPs.-25702 to 25707

(see also chart letter No. 698 (1932))

Name lists are now being prepared under Mr. Bacon's direction and will be attached at the back of the descriptive reports when completed. Any changes in names indicated by the name lists will be applied to the compilations at the next printing.

November 26, 1934.

Frank G. Eskine

Applied to drawing of Chart 5527 - 4/17/35 - JFW.

Applied to drawing of Chart 5528 - 4/17/35 - JFW.