Form 504
Rev. Dec. 1922
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, Director

DESCRIPTIVE REPORT
Topographic
Hydrographic

State: CALIFORNIA
LOCALITY
California Coast
Cayucos to Point Estero

193 4
CHIEF OF PARTY
F. H. Hardy
Applied to drawing of Chart 5302 - Mar. 2, 1936 - 45W
applied to "5387" Dec. 8, 1936 - 45W.
The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field Letter ....... K

REGISTER NO. 4912

State ............ California

General locality ........ California Coast.

Locality .......... Camoons to two miles north of Point Estero

Scale ............. 1:10,000. Date of survey ........ November 1-15, 1934

Vessel ........... U.S.C. & G.S.S., GUIDE.

Chief of Party ........ F. H. Hardy

Surveyed by ........ Chester J. Beyma

Inked by .......... Chester J. Beyma

Heights in feet above M.N.W. to ground to tops of trees

Contour Approximate contour Form line interval .......... 20 feet

Instructions dated .......... April 4, 1932; May 31, 1934

Remarks: 

U.S. NAVY NAFF MORTON STONE ARO
DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC FIELD SHEET LETTER K

Ship GUIDE

F. H. Hardy, Commanding.

INSTRUCTIONS DATED APRIL 4, 1932: MAY 31, 1934.

GENERAL DESCRIPTION

The country surveyed on this sheet northward from Point Esteros is mountainous and the coast is bold and rugged. Shale and rocky bluffs rise abruptly from the beach to a height of 50 to 100 feet and the land rises sharply to elevations ranging from 400 to 500 feet. Southward from Point Esteros the land near the beach is low with small bluffs. Inland the hills rise to high elevations. The coast highway, a hard surfaced road, parallels the coast.

The entire beach, except for a sandy portion at the mouth of Villa Creek, is fringed with large boulders. The inshore area is covered with numerous detached rocks causing the sea to be generally breaking over the entire inshore area, even in the calmest of weather.

SURVEY METHODS

The topography on this sheet was executed from shore. The party consisted of one officer and three men, using U.S.C.& G.S. Truck No. 213. Cambria, California was used as a base by the field party.

Control for the topography consisted of triangulation stations on the 1932 scheme which was executed by Lieutenant Charles Pierce, and plotted on the North American 1927 Adjusted Datum.

The triangulation scheme covering the area of this sheet is as follows: SULLIVAN, VILLA 2, HARBOR, POINT 2, LARGE ROCK SOUTH OF TRIANGULATION STATION, POINT 2, FENCE, BLACK ROCK, ROCK AWASH WEST OF CAYUCOS, CONCRETE TANK NORTHWEST OF CAYUCOS, CAYUCOS SCHOOL CUPOLA, CAYUCOS WEST GABLE OF WAREHOUSE, and CAYUCOS CATHOLIC CHURCH CROSS.

Distortion in this sheet was measured daily while in the field. Adjustments for distortion were applied during the course of the traverses. The maximum and minimum distortion measured was 4 and 2 meters per mile respectively in latitude and 1 to 0 meters per mile respectively in longitude.

Before the field work was started the shoreline, rocks, and contours were transferred to this sheet from photostats T-1753 and T-1665. Every discrepancy in shoreline, offlying rocks, and contours between this survey and the old survey has been checked and this sheet represents existing conditions of the area.
In order to establish a planetable position on the northern end of this sheet triangulation station SULLIVAN, Latitude 35° 29.6' was occupied and a traverse carried to the beach, joining topography on field sheet letter J at topographic signal EXTRA. While occupying triangulation station SULLIVAN, cuts were taken to all visible topographic signals along the beach. After joining topography on sheet letter J at signal EXTRA the traverse was continued southward to topographic signal LAD, Latitude 35° 27.7'. In order to check the traverse thus far, triangulation station VILLA 2 was occupied and a traverse carried down to the beach to topographic signal LAD. The previous traversed location of signal LAD checked in azimuth and distance.

From topographic signal LAD the traverse was carried southward to triangulation station POINT 2, Latitude 35° 26.8'. The traverse closed within the allowable limits; being 5 meters over a distance of 2½ miles. The traverse was adjusted.

Triangulation station POINT 2, Latitude 35° 26.8', was occupied and a traverse carried southward to triangulation station CAYUCOS WEST GABLE OF WAREHOUSE, Latitude 35° 26.9'. This traverse was checked abreast of triangulation station BLACK ROCK, Latitude 35° 26.7', by a three point fix using triangulation stations POINT 2, BLACK ROCK, and CAYUCOS CATHOLIC CHURCH CROSS for control. The traverse thus far checked in azimuth and distance. From here the traverse was continued southward to triangulation station CAYUCOS WEST GABLE OF WAREHOUSE. The traverse checked in distance and azimuth.

Every set-up during the course of the traverse was checked by resection cuts on one or more triangulation stations.

Check elevations on this sheet are shown in red.

All offlying rocks and rocks awash were located by three or more cuts. Mean high water line, bluff line, and the road were located by stadia. Elevations to tops of hills and along the road and bluff line were taken at various intervals as shown on the sheet. All elevations checked very closely with the previous survey.

COMPARISONS WITH PREVIOUS SURVEYS

All comparisons are based on the survey shown on sheets T-1753 and T-1663.

Changes in shoreline:

In general the shoreline and bluff line of this survey checked the previous survey very satisfactorily, except in the following named places:
South from signal EXTRA, Latitude 35° 29.5', to about 200 meters south of signal 20, Latitude 35° 29.3'. The shoreline of this survey extends offshore for about 50 meters.

The shoreline in the vicinity of Cayucos dock, Latitude 35° 26.9'. The shoreline of this survey extends inshore about 55 meters.

Changes in Water Features:
All water features located by the previous survey checked this survey very satisfactorily.

**REMARKS**

Tracings used in transferring photostats T-1753 and T-1663 to this sheet are attached in order that the discrepancies may be noted.

**STATISTICS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
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<tbody>
<tr>
<td>Statute miles of shoreline</td>
<td>11.0</td>
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<tr>
<td>Statute miles of road</td>
<td>4.5</td>
</tr>
<tr>
<td>Area in square statute miles</td>
<td>3.0</td>
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Respectfully submitted,

[Signature]

Chester J. Beyma, Sr.
C. & G. Survey.

Approved and forwarded,

[Signature]

F. H. Hardy, H. & G. E.
Chief of Party, C. & G. Survey
Commanding Ship GUIDE.
The completed topographic sheet field letter K has been inspected and is approved.

F. H. Hardy, H. & G. E.
Chief of Party, C. & G. Survey
Commanding Ship GUIDE.
<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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<tbody>
<tr>
<td></td>
<td>Ellysly Creek</td>
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<td>Point Estero</td>
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<td>China Harbor</td>
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<td>Cayucos Point</td>
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<td>Mouse Rock</td>
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</table>

Amore 5 in Point Estero
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 DMs and DFs, 68.) 2 Cards Submitted

16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) 0 Cards Submitted

17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) No note of having checked declinometer

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

19. Junctions with contemporary surveys are adequate.

20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.)

21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 29, 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:

Reviewed in office by Chas P. Bush Jr. May 25, 1936

Examined and approved:

[Signatures] Chas P. Bush Jr.

Chief, Section of Field Records

[Signatures] L. C. Dehlke

Chief, Division of Charts

[Signatures] Chas P. Peacock

Chief, Division of Hyd. and Top.
REVIEW OF TOPOGRAPHIC SURVEY No. 49/12

Title (Par. 56) Cayucos Point to Point Estero, California

Chief of Party: F.H. Nordsy Surveyed by C.J. Beyma Inked by C.J. Beyma

Ship: Guide Instructions dated April 31, 1933 Surveyed in November 1934

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. 16, 19, 20, 21, 22, 23.) Contours from previous surveys held adequate and correct. No new contours drawn.

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

See preceding paragraph.

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.) None submitted.

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.)

See reverse side.

10. The span, draw, and clearance of bridges are shown. (Par. 160.)

11. Locations and elevations of summits are given. (Par. 19, 51.) Not all elevations given. Check elevations on old work given.

12. The tree line was shown on mountains. (Par. 16g.) New contours not drawn - Tree line not shown.

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.
Paragraph 9

T1753 (1886)

Discrepancies between the present survey and T1753 are discussed thoroughly in the Descriptive Report. There is no doubt that T4912 is much more in detail.

T1663 (1884)

While the breaker symbol on T4912 covers the area of sunken rocks on T1663, several of these sunken rocks have been transferred to T4912. It is felt, however, that the sunken rock symbol was used extensively on T1663 to depict breakers.

Other differences are discussed thoroughly in the Descriptive Report of T4912.

T3624 (1916)

The dock shown on the present survey is much longer than as shown on T3624 and should be accepted as shown on T4912. It was rebuilt in 1954.

Chart 5302

Rocks shown on the chart are close inshore and no differences other than those discussed under the individual prior surveys were disclosed.