

4912

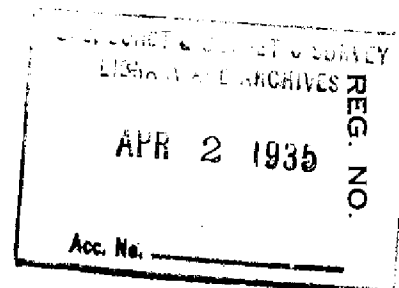
4912

Form 504 Rev. Dec. 1933	
DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. <u>K</u>
State <u>CALIFORNIA</u>	
LOCALITY	
<u>California Coast</u>	
<u>Cayucos to Point Esteros</u>	
<u>193 4</u>	
CHIEF OF PARTY	
<u>F. H. Hardy</u>	

applied to drawing of Chart 5302 - Mar. 2, 1936 - JFW
applied to " " " 5387 - Dec. 8, 1936 JFW

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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 Letter KREGISTER NO. 4912State CaliforniaGeneral locality California CoastLocality Cayucos to two miles north of Point EsteroScale 1:10,000 Date of survey November 1 - 15, 1934Vessel U.S.C. & G.S.S. GUIDEChief of Party F. H. HardySurveyed by Chester J. BeymaInked by Chester J. BeymaHeights in feet above M.H.W. to ground ~~to tops of trees~~Contour Approximate contour Form line interval 20 feetInstructions dated April 4, 1932; May 31, 1934, 19

Remarks:

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-1663. 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 $35^{\circ} 29.6'$, 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 $35^{\circ} 27.7'$. 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 $35^{\circ} 26.8'$. The traverse closed within the allowable limits, being 5 meters over a distance of $2\frac{1}{2}$ miles. The traverse was adjusted.

Triangulation station POINT 2, Latitude $35^{\circ} 26.8'$, was occupied and a traverse carried southward to triangulation station CAYUCOS WEST GABLE OF WAREHOUSE, Latitude $35^{\circ} 26.9'$. This traverse was checked abreast of triangulation station BLACK ROCK, Latitude $35^{\circ} 26.7'$, 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 $35^{\circ} 29.5'$, to about 200 meters south of signal ZO, Latitude $35^{\circ} 29.3'$. The shoreline of this survey extends offshore for about 50 meters.

The shoreline in the vicinity of Cayucos dock, Latitude $35^{\circ} 26.9'$. 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

Statute miles of shoreline	11.0
Statute miles of road	4.5
Area in square statute miles	3.0

Respectfully submitted,

Chester J. Beyma
Chester J. Beyma, A61
C. & G. Survey.

Approved and forwarded,

F. H. Hardy

F. H. Hardy, H. & G. E.
Chief of Party, C. & G. Survey
Commanding Ship GUIDE.

APPROVAL NOTE OF CHIEF OF PARTY

The completed topographic sheet field letter K has been inspected and is approved.

F. H. Hardy

F. H. Hardy, H. & G. E.
Chief of Party, C. & G. Survey
Commanding Ship GUIDE.

GEOGRAPHIC NAMES

Date. April 5, 1935

Survey No. T4912

Chart No. 5302

Diagram No. 5302-2

Approved by the Division of Geographic Names, Department of Interior. ✱

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

Under investigation. Q

[illegible]

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 DPs, 68.) *2 Cards Submitted*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) *None submitted*
17. The magnetic meridian was shown ✓ and declination was checked. ✓ (Par. 17, 52.) *No note of having checked declinatoire*
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. ✓
Joins T4901 on the North and T4916 on the South
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, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
Notes to rocks were much too large.
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 R. Bush Jr. May 25, 1936*

Examined and approved:

C. F. Green
Chief, Section of Field Records

L. O. Lobnitz
Chief, Division of Charts

Fred L. Peacock
Chief, Section of Field Work

G. H. Hude
Chief, Division of Hyd. and Top.

REVIEW OF TOPOGRAPHIC SURVEY No. 4912

Title (Par. 56) *Cayucos Point to Point Estero, California*Chief of Party *F.H. Hardy* Surveyed by *C.J. Beyma* Inked by *C.J. Beyma*Ship *Guide* Instructions dated *April 4-1932*
May 31-1934 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. 18, 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. 16c.)~~
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 rocks 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 1934.

Chart 5302

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