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1910
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3224 &

Diag. Ct. 5502-1

C. & G. SURVEY.
LIBRARY AND ARCHIVES
MAR 11 1911
Ass. No.

3225

5602-1

Diag. Ct. No.
5602-1

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: *Cal*

DESCRIPTIVE REPORT.

Hyd.

3224
Sheets No. 3225

LOCALITY:

*Northward of Bodega
Head.*

1911

CHIEF OF PARTY:

W. E. Parker

3224 3225

Descriptive report to accompany charts 5500 and 5700.

RECEIVED
BY ASSISTANT IN CHARGE

MAR 8 1911

L. & A. DIV.

C. & G. SURVEY,
LIBRARY AND ARCHIVES

MAR 8 1911

Objects used in obtaining fixes-

Assistant in Charge,

Point Reyes- In every case unless otherwise states the highest elevation east (true) from the light house was used. The position on the chart of this spot was taken from chart 5599 and is shown here by the red circle.

Ross Mt. was easily identified and has a sharp well defined summit.

Spur Mt. was easily identified from the westward but its summit is rather indefinite. The eastern part of the summit appeared the highest and was observed on.

Pt. Reyes Hill stands out clear from all other elevations but is an indefinite object. The summit appears as a flat symmetrical dome.

Walalla Mt has a sharply defined wooded peak apparently elevated above all others. It gave fixes consistent with positions obtained from other objects when well to the southward of it; but when nearly up to the mountain fixes based on this peak did not agree with our known position as determined by nearer definite objects.

The following objects were positively identified from this chart and tracings of the original topographic sheets.- Rock off Russian River, Walalla Island, Fish Rock (the highest), Sail Rock and Rock off Elk Creek.

Fort Ross- A prominent white, red roof building was cut in by sextant angles from fixes obtained from objects mentioned above and tangents to the points south and southwest from the building. Its position is well determined.

Fish Mill Cove- A prominent white, red roof building was cut in in the same way. Its position is reasonably accurate.

Horseshoe Point- The triangulation signal is still standing and is the object observed on here. Its position on the chart is from the tracing of the original topographic sheet.

Stewarts Point- A prominent yellow building was cut in as above. Its position is well determined for this sheet. A considerable village of white houses surrounds this building and offers a conspicuous land mark from well off shore. From the southward the village is obscured by trees.

Bihler Landing- One building was located by several cuts. It is fairly well determined.

Barn- Numerous cuts were taken on this building but four only intersect at one point. Its determination is the poorest so far.

Walalla- Three cuts to a prominent building from good fixes intersect at a point.

Gable, the gable of a large barn is fairly well determined.

Clump, a clump of high trees on the highest elevation, fairly well determined. From the southeastward this clump rises above the horizon first. It was at first mistaken for Cliff and called such in the records.

Cliff is the northwest corner of the yellow cliffs where they break *to form* from Arena Cove.

R.R. Bl'd'g is a red roof building at the head of Arena Cove. It was at first taken for the life saving station and called such in the records. Its position is reasonably well determined by three cuts from good fixes.

Little is a building at Little River Landing. Its position was determined approximately from two cuts from sounding positions. It was used only in the general direction of the cuts.

Survey methods.

All soundings were taken by Cosmos machine with No 16 American gauge single strand wire and 14 to 18 pound leads. There were 310 fathoms on the reel. The vessel was stopped absolutely and the soundings taken vertically.

Through a misunderstanding by the leadsman the reel dial showed 4 fathoms when the lead was at the surface of the water for all soundings of A day

and the first three of B day. Accordingly a reduction of 4 fathoms was applied to all these soundings when they were plotted. Beginning with position and sounding No 4 of B day the depths given in the record are correct.

The positions of the soundings are believed to be as accurately determined as possible with the available data and in every case sufficient for the object of this survey. In some few cases the changing of objects gives somewhat different positions but the shifting is lateral with the coast and would not effect the contours. This is most marked when changing from Walalla Mt. to definate objects on the shore.

Disagreement with earlier surveys.-

Southwesterly from Salt Point at a distance of 3-1/2 miles from the shore the chart shows a depth of 81 fathoms. We found 54 fathoms a little inshore from this spot and 66 fathoms a mile off shore from it.

Again 8 miles southwesterly from Horeshoe Point where the chart shows 173 fathoms we found 74 and the 100 fathom curve 4 miles farther off shore.

Chart 5700 shows a depth of 75 fathoms 10 miles W by S from Point Arena where as the 100 fathoms curve as determined by this party falls a mile inside of this spot. The 127 fathom depth west and north from the 75 also appears too far off shore.

Whereever our hydrography overlaps the inshore depths shown on both of these skarts the agreement is good, but the few off shore depths shown on these charts, except about Cordell Bank, are not in accordance with what we have found.

Indications of a shoal.

A depth of 26 fathoms with deeper water on both sides was found 5-1/2 miles off shore from Russian River. Additional soundings taken on all sides of this cast showed no less than 43 fathoms.

W E Parker Asst. U.S.S.
Chief of Party

3224 &

STATISTICS CHART NO. 5600 and 5700

3225

Date 1911.	Letter	Vol.	Positions	Soundings	Miles Stat.	Vessel
Feb. 7	A	1	32	32	46	"Patterson"
" 8	B	1	41	41	52	"
" 9	C	1	36	36	54	"
" 15	D	1	43	43	55	"
" 16	E	1	41	41	54.5	"
" 17	F	1	5	5	4	"
" 18	G Day spent in cutting in objects.					
			198	198	265.5	

Soundings in fathoms

VEC
Apr. 18, 1911.

HYDROGRAPHIC SHEET 3224.

Bodega Head to Point Arena, California, by
Asst. W. E. Parker in 1911.

TIDES.

The depths being great, the soundings were not
reduced for tides.

Mean rise and fall of tides = 3.5 ft.

United States Hydrographic Survey

APR 19 1911

TIDAL DIVISION.

205 DW
AB
4/19/11

VEC
Apr. 18, 1911.

HYDROGRAPHIC SHEET 3225.

Vicinity of Point Arena, California, by
Asst. W. E. Parker in 1911.

TIDES.

The depths being great, the soundings were not
reduced for tides.

Mean rise and fall of tides = 3.5 ft.

Coast and Geodetic Survey
APR 19 1911
TIDAL DIVISION.

Handwritten:
D. E. G. Jr.
C. A. B.
4/19/11