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U. S. COAST AND GEODETIC SURVEY  
JAN 28 1917  
ALB. NO.

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: *California*

11-5013

DESCRIPTIVE REPORT.

Topo. Sheet No. *3776 3777*

LOCALITY:

*Humboldt Bay*

*Ste. Wemona*

*1917*

CHIEF OF PARTY:

*Lukens, R. R.*

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Humboldt Bay <sup>2</sup>

LIST OF OBJECTS  
RECOMMENDED TO BE PLACED ON CHART.

By  
R. R. Lukens, Chief of Party.

Object and Description.		Latitude	D.M.	Longitude	D.P.	Remarks.
C.G. Lookout	✓	40 - 46	212.2	124 - 13	638.2	N. Spit.
Mount	o	40 - 44	790.9	124 - 14	622.7	Tripod triangulation signal.
Log	o	40 - 45	51.5	124 - 14	190.5	Tripod triangulation signal.
Water Tank	✓	40 - 44	1507.8	124 - 13	845.1	Highest triangulation on S. Spit.
Beacon	✓	40 - 44	1761.0	124 - 13	919.9	Triangulation Station.
Siren	✓	40 - 45	1246.8	124 - 13	285.0	Light on N. Spit.
Tank						Fog station.
Tank	o	See hydrog. sheets.				<del>Rock</del> Coast Guard station.
Cupola						Coast guard Sta.
Conical tank	✓	40 - 43	1461.8	124 - 12	1086.5	N. of Fields Indg.
Beacon	✓	40 - 43	1505.0	124 - 12	1306.8	Unused white beacon
Red Bluff	o	40 - 44	1262.8	124 - 12	1255.2	Tripod triangulation signal.
Radio, single	✓					
Pole		40 - 46	1172.8	124 - 11	341.4	Fort Humboldt.
Flag Pole	o					Rolph Shipbuilding plant.
Brick Chimney	✓					
<del>Court house</del>	→	40 - 47	1241.0	124 - 11	131.0	Bayside lumber (Very prominent)
Dome <del>Court House</del>	✓	40 - 48	376.0	124 - 09	959.0	Eureka.
Cupola	✓	40 - 48	1647.8	124 - 09	1239.1	Cupola of white house on Indian Island.
Stack	✓	40 - 49	321.4	124 - 10	1158.9	N.E. ly & highest of 4 stacks, Hammond Lumber Co. Mill, Samoa.
Cog	o	40 - 47	1850.5	124 - 11	761.4	Tripod triangulation signal.
Drift	o	40 - 48	781.7	124 - 11	458.9	Tripod triangulation signal.
Stack	✓	40 - 48	557.4	124 - 10	257.6	Steel stack concrete base. Occidental Mill, Eureka.
Water Tank	✓	40 - 48	1372.4	124 - 11	399.3	Samoa.

# PLANETABLE POSITIONS

Sheet No. *A & B*

HULBOLDT BAY

By  
R. R. Lukens, Chief of Party.

Object and Description.	Latitude	D.M.	Longitude	D.P.	Remarks.
-Sear	40 - 48	1322	124 - 11	193	Searchlight on S.ly dock Samoa.
Ter	40 - 49	9188	124 - 10	354	Water tank Samoa.
-End	40 - 50	1054	124 - 07	086	S.W. Cor. Arcata long wharf.
-Yat	40 - 48	996	124 - 10	327	Cupola Eureka yacht club. Does not check geodetic position.
-Lag	40 - 48	944	124 - 10	07	Small flag.
-Pole	40 - 48	987	124 - 09	860	Small flag.
-Smokestack	40 - 48	554	124 - 10	257	Large concrete & steel smoke stack.
-Stack	40 - 47	1439	124 - 10	1354	
-Able	40 - 42	1587	124 - 12	1170	S.gable large barn.
-Gab.	40 - 44	730	124 - 12	1125	G gable barn.
Lan	40 - 45	442	124 - 13	1264	Support for navigation light.
-Cran	40 - 45	748	124 - 14	0015	Top of crane. (movable)
-Nat	40 - 45	1535	124 - 14	682	Small sig. on breakwater.
-Der	40 - 45	1263	124 - 13	798	Top of crane. (movable)
-Flag	40 - 47	730	124 - 11	931	Flag Pole Rolph ship yards.
-Iron	40 - 47	241	124 - 11	294	Small Iron smoke stack at the slaughter house

DESCRIPTIVE REPORT.  
To accompany

TOPOGRAPHIC SHEETS 3776: B 3777

HUMBOLDT BAY

Calif.  
1919.

Str. WENONAH

R.R. Lukens,  
Chief of Party

These sheets the area of Humboldt Bay, but as the survey was in the nature of a revision, only the topography needed to bring the chart up to date was executed by this party.

CONTROL The geographic positions for the signals and many objects used as signals, were furnished this party by Mr. Latham. These positions will be found in Mr. Latham's records.

SHORE LINE The shore line of most the part included in the survey was a fine sandy beach. In places the low water line is far out, and as it is well determined by the hydrographic surveys, no attempt was made to sketch it in. Existing surveys show the character of the shores in a correct manner

THE CITY OF EUREKA appears on the existing chart in sufficient detail, and I would recommend no changes except on the water front. The small islands in front of Eureka are not improved, and are mostly nothing but marsh showing no signs of having changed and so were not included in the survey.

NORTH JETTY At the North Jetty the chart shows a road connecting the Coast Guard station and the Fog Station. This exists only as a narrow board walk which is drifted over with sand in a number of places. I think its appearance on the chart is misleading.

LANDMARKS A list of object which will be of value for publication on the chart, will be submitted with the topographic sheets

FAIRHAVEN This village is now known as ROLPH and is the seat of the Rolph Shipbuilding plant. Wooden ships only are built here.

R. R. Lukens

(Copy to R. R. Lukens, H. R. Bartlett and C. E. Christopherson)

Review of topographic sheets 3776 and 3777

Humboldt Bay, Cal.

by R. R. Lukens in 1919

The instructions directed that the survey be carried "to south of Table Bluff". The survey stops 4 miles north of that point, and no information is given as to whether the chart shows that strip of coast line correctly.

There were no geographic names on the sheets. These should always be given in ink.

The considerable additions to the wharves of Samoa indicate the probability of the development of a settlement at that place which should have been shown.

The magnetic variation should have been indicated, as directed by § 150 of General Instructions.

Planetable positions should have been inked in red, as directed by § 191 of General Instructions.

The descriptive report failed to give date of instructions. It might also have contained commercial information that would have been useful in correcting the charts and Coast Pilot. (except as noted).

The character and extent of the survey is in accordance with the instructions and C. & G. S. methods. The inking of the sheets was well done and they present a neat appearance.

March 27, 1920

E. P. Ellis

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3776

State California . . . . .  
General locality Pacific Coast Humboldt Bay .  
Locality Humboldt Bay Fields Landing to Fairhaven  
Chief of party R. R. Lukens . . . . .  
Surveyed by H. R. Bartlett . . . . .  
Date of survey Sept., Oct., Nov., 1919 . . . . .  
Scale 1 / 10,000 . . . . .  
Heights in feet above 7 7 7 . . . . .  
Contour interval 7 7 feet.  
Inked by C.E.C. . . . Lettered by C.E.C. . . . . .  
Records accompanying sheet (check those forwarded): Photographs,  
Descriptive report, Horizontal angle books, Field computations,  
Data from other sources affecting sheet . . . . .

Remarks: Work on 2 sheets; A & B

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. **3777**

State **California**

General Locality **Humboldt Bay Pacific Coast**

Locality **Humboldt Bay Fairhaven to Mack R. Slough and Arcata Whf.**

Chief of party **R. R. Lukens**

Surveyed by **H. R. Bartlett**

Date of survey **Sept., Oct., Nov., 1919**

Scale **1/10,000**

Heights in feet above . . . . .

Contour interval . . . . . feet.

Inked by **C.E.C.** . . . . . Lettered by **C.E.C.** . . . . .

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet . . . . .

Remarks: **Work on 2 sheets; A & B**