

4226

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Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
....., Director	
State: Oregon	<div style="border: 1px solid black; padding: 2px; display: inline-block;">U. S. SURVEY L. & A. No.</div>
DESCRIPTIVE REPORT	
Topographic } Hydrographic }	Sheet No. 4226
LOCALITY	
Coast	
Columbia River to	
Gearhart	
1926	
CHIEF OF PARTY	
R.F. Luce	

DESCRIPTIVE REPORT

TOPOGRAPHY

OREGON COAST

1926

Sheet ^A~~one~~:- Latitude 46 - 02 to latitude 46 - 14.

INSTRUCTIONS

This work was called for under Instructions from the Director dated April 17, 1926.

GENERAL DESCRIPTION

This section of coast line is composed entirely of flat, sand beach; is almost straight, and extends in a general N.W. by N and S.E. by S. direction. The country immediately back of the beach line is flat, and characterless, and consists mainly of low sand dunes and rolling grassy plains with an occasional small bunch of trees, mostly fir. A broken line of sand dunes, partly covered with vegetation, form a sort of low ridge varying from 20 to 60 feet in height which approximately parallels the beach line and obstructs the view of the plains as seen from the beach.

Beyond the northern end of this ridge extends a broad, flat, sand spit covered with drift wood. This spit, while above the reach of average high water, is occasionally breached by severe storms.

TOPOGRAPHIC FEATURES

As stated in the general description the country is flat and characterless and has no topographic features of note. The beach is composed entirely of fine white sand, which between the high and low water line is very level, smooth, and hard packed, and furnishes a

very good driving surface for cars. Above the high water line is a broad strip of soft sand through which it is impossible to drive except at Gearhart and Seaside where approaches have been built. At any stage below half tide a car can be driven from the Necanicum River to the jetty on Clatsop Spit or from the Necanicum south to Tillamook Head.

LANDMARKS

The topographic signals OUT and IN are two detached groups of piling which at one time formed part of the trestle used in building the breakwater. They are easily distinguished at a distance and especially in thick weather furnish small boats with a means of determining their position to the channel when approaching the entrance from the south.

TANK is an old range tower with a square target resembling a water tank. It is about 60 feet high and can be seen for a considerable distance up and down the coast.

Signal TOP is the southern most of two tall radio poles which rise in a small clearing in the center of a grove of fir on the northern end of the sand ridge which parallels the beach. The dark grove against the lighter background furnishes a distinctive landmark.

Station N.R.C. is the thirty five foot tower on the small white building housing the Navy Radio Compass Station. This building in clear sun-shiny weather shows very white and can be seen for considerable distance but in overcast or hazy weather it merges with the background.

Station MAST is a portion of an old wreck projecting about fifteen feet above the sand. It shows black against the background in clear weather.

MACK is a square topped dune covered with dark green vegetation, which shows black from seaward as seen against the white sand. It can be easily recognized as it forms the southern limit of a long white sand ridge about 50 feet high.

Signal BEE is a symmetrically shaped sand dune covered with vegetation. It stands practically alone, is about 35 feet in height and a peculiar furrowed appearance together with its conical shape gives it a marked resemblance to a bee hive. It is locally known as Strawberry Mound.

Station SYLAR is on a lone sand dune covered with dark green vegetation which from the sea appears black. The dune is about 50 feet high and about 4 or 5 times as long. It can be easily recognized because of a similarly shaped dune about half its size 1/2 mile to the south.

SURVEY METHODS

The control for this survey was third order triangulation executed by Lt. L. G. Simmons in June, 1926.

The survey was made with a standard plane table outfit using the general methods of stadia traverse. The high water line, and where possible, the signals, were rodded in. The low water line was rodded at several points during low tide and the remaining distance estimated. There were no unusual features to this part of the survey. The traverse was checked at each triangulation station and always found to be within the limit of error.

WELL ESTABLISHED LOCAL NAMES

CLATSOP BEACH:- The entire beach from the mouth of the Columbia to the Necanicum is known locally by this name.

D.M.'s + I.T.P.'s for Topo Sheet No 1

Sta. Przeworski, Oregon, 1926.

Signal	Latitude	Meters	Longitude	Meters	Height	Description
Out	46 14	Flat	124 02	1232		Center of small section of trestle farthest out on south Columbia Jetty
In	46 14	33	124 02	600		Inner end of long section of trestle south Columbia Jetty
Pile	46 13	1385	124 01	366		Lone pile on jetty line
Sig	46 12	1584	124 00	523		White cloth signal on h.w. line
Pole	46 12	636	123 59	1161	25'	Bare pole on beach.
Hum	46 12	90	123 59	722		Large green hummock
Top	46 11	802	123 58	470		South radio pole, Ft Stevens.
Mid	46 10	994	123 57	1142		Middle one of three dead trees equally spaced along a ridge near copped sand dune
Cap	46 09	1327	123 57	770		Black spot on sand hill
Spot	46 08	786	123 57	23		Chimney of north house on sand hill
Hi	46 08	216	123 56	1034		Chimney of south " " " "
Lo	46 08	163	123 56	1008		
So	46 07	1035	123 56	814		
Snag	46 06	1072	123 56	590		Large root projecting from beach
Bee	46 06	663	123 56	348		Beehive shaped sand hill
End	46 06	360	123 56	295		North end of long sand ridge
Red	46 06	380	123 56	15		Chimney of red 10' x 10' house
No	46 05	1772	123 56	195		North end of same ridge

Signal	Latitude	Meters	Longitude	Meters	Height	Description
Dot	46 05	1040	123 56	45		Wooden signal on top of long sand ridge
Nob	46 05	390	123 55	1220		Fan shaped green dune
Tri	46 04	525	123 55	916		Clot covered tripod
Tin	46 03	1977	123 55	815		Blue tin boiler used as signal on top of sand hill
Flat	46 03	655	123 55	670		Flat topped sand hill
Turn	46 02	1535	123 55	621		Tumbled down shack
Con	46 02	1036	123 55	670		Conical sand dune covered with grass.

Copy checked
 PFW

AND REFER TO NO. 11-DFM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

April 11, 1927.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4226

Columbia River to Gearhart, Oregon

Surveyed in 1926

Instructions dated April 17, 1926 (PIONEER)

Chief of Party, R. F. Luce.

Surveyed and inked by S. B. Grenell.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of the survey conform to the requirements of the General Instructions.
3. The plan and extent of the survey satisfy the specific instructions except for the omission of the railroad which parallels the beach about one mile inland.
4. The junction with the adjoining survey on the south is adequate.
5. No further surveying is required.
6. The character of the surveying and field drafting is excellent and the scope of the surveying is fair.
7. Reviewed by E. P. Ellis, March, 1927.

Approved:

K. T. Adams

Chief, Section of Field Records (Charts)

L. O. Zoltfort

Chief, Section of Field Work (H. & T.)

The shoreline for 4 miles south of the West Jetty as delineated on this sheet is from 40 to 75 meters inshore from that shown on survey by Lt. Domb's same year.

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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.

4226

U. S. Coast and Geodetic Survey.

Register No. 4226

State . . . Oregon

General locality . . . ~~Northern Coast~~

Locality . . . Columbia River to Gearhart.

Chief of party R. F. Luce

Surveyed by S. B. Grenell

Date of survey June, 1926.

Scale 1:20,000

Heights in feet above ~~Mean sea level~~

Contour interval ~~100~~ . . feet.

Inked by S.B. Grenell . . Lettered by S.B. Grenell

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet ~~??~~

Remarks: