

Test facility and model installation

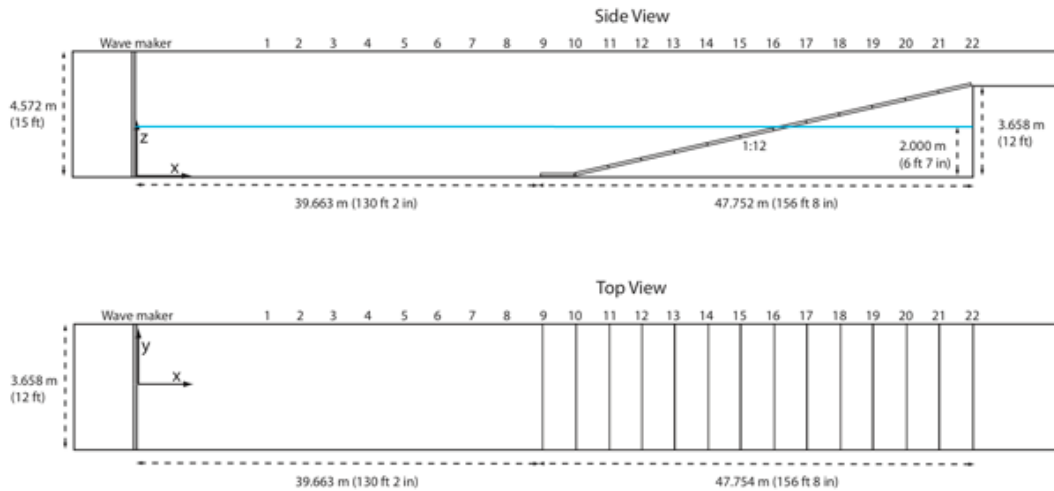


Figure 1. OSU Large Wave Flume [courtesy of OSU]

- Test facility: Oregon State University Large Wave Flume
- Flume width: 3.7m
- (Still) water depth: 2.7m
- Bathymetry at WEC: Flat
- Wave maker type: Single piston paddle
- Wave direction range: 0° to 0°
- Wave absorption: Passive beach

Four measurements of wave elevation were made using resistive wave gauges: 2 upwave of the WEC, 1 at the WEC location, and 1 downwave of the WEC. Wave probes were 45 cm away from the basin sidewalls (the lateral uniformity of the waves is acceptable and therefore the probes do not need to be centered in the flume). These wave probes were in place during device testing and calibration (no device in flume). The locations of the wave gauges and the Triton WEC model are summarized in Table 1.

Table 1. Model and wave gauge positions

	Downwave (x) distance from wave paddle [m]	Lateral distance (y) from flume center [m]
1:30 Triton Model	25.1	0
Wave Gauge 1	17.8	1.38
Wave Gauge 2	21.5	1.38
Wave Gauge 3	25.1	1.38
Wave Gauge 4	28.8	1.38