



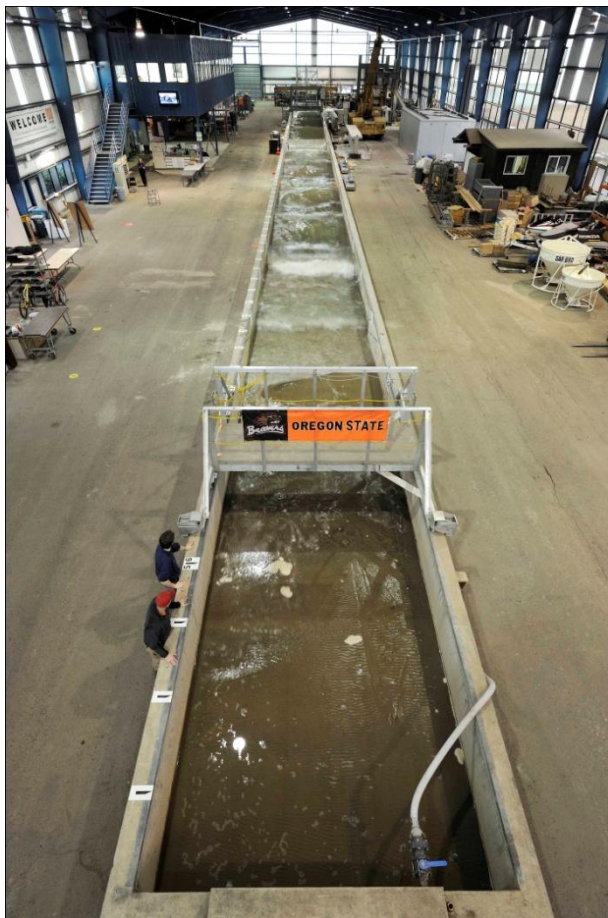
# O.H. Hinsdale Wave Research Laboratory

OREGON STATE UNIVERSITY • COLLEGE of ENGINEERING

## Large Wave Flume

The Large Wave Flume is the largest of its kind in North America. Because of its size and ability to operate in high Reynolds regimes, the flume is ideally suited for:

- Scaled shallow water hurricane and storm wave conditions
- Long wave and tsunami generation
- Active wave absorption for large reflected waves
- Minimizing tank seiche for long duration studies



### Wave Basin

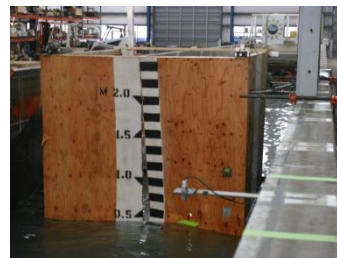
- Length: 104 m 342 ft
- Width: 3.7 m 12 ft
- Depth: 4.6 m 15 ft

### Wavemaker

- Type: Piston-type, Hydraulic Actuator Assembly
- Wave Types: Regular, Irregular, Tsunami, User Defined
- Period Range: 0.5 to 10 seconds
- Max Wave: 1.7 m (5.6 ft) @ 5 sec in 2.7 m water  
1.2 m (3.9 ft) tsunami in 3.0 m water
- Max Stroke: 4 m (13.1 ft) at 4 m/s (13.1 ft/s)

### Instrumentation Carriage

- Powered carriage with full cross-shore traverse
- Carriage-mounted vertical instrument deployment frame
- Lightweight carriage for video and lighting applications



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