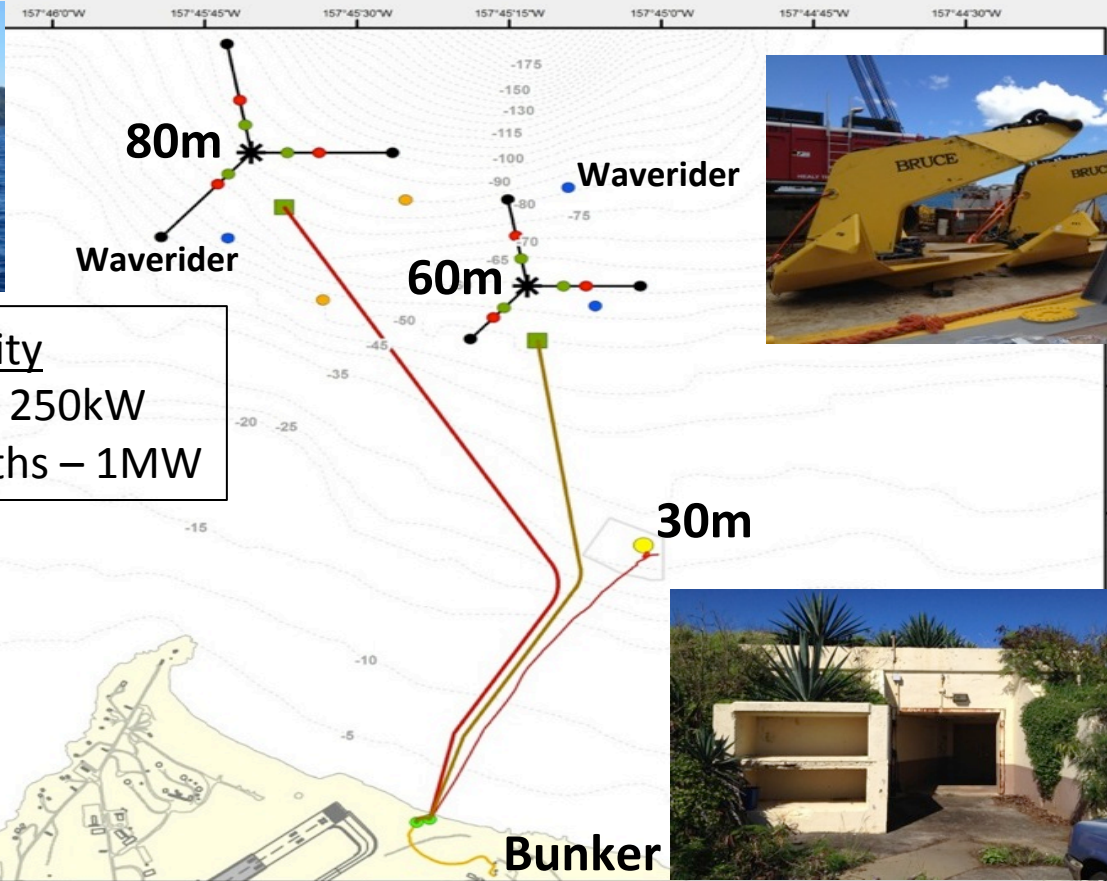


WETS Layout



Cable Capacity
 30m Berth – 250kW
 60/80m Berths – 1MW

Legend

- Splice Box
- Mooring Anchor
- ✱ WEC Device Mooring Point
- Waverider Buoy
- Surface Buoy (with WEC deployed)
- Surface Buoy (vacant berth)
- Work Boat Mooring
- WET Existing Buoy

SubSeaCables

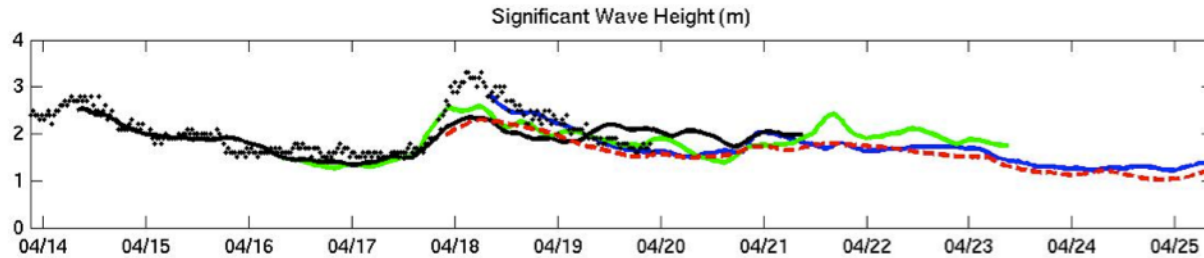
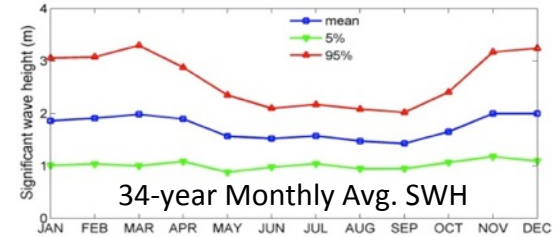
- SubSeaCable_80mSite
- SubSeaCable_60mSite
- Existing Cable (30m site)
- MooringLegs
- Terrestrial Cable Route
- Contour 5m



HNEI WEC Device Performance Studies

- Wave Regime Characterization

- WETS Waverider #1 deployed Oct 2012, #2 coming soon, ADCP
 - Daily 7.5-day High-res Wave Forecast
 - High-resolution forcing/100-m grid for windward Oahu
 - 34-year hindcast database

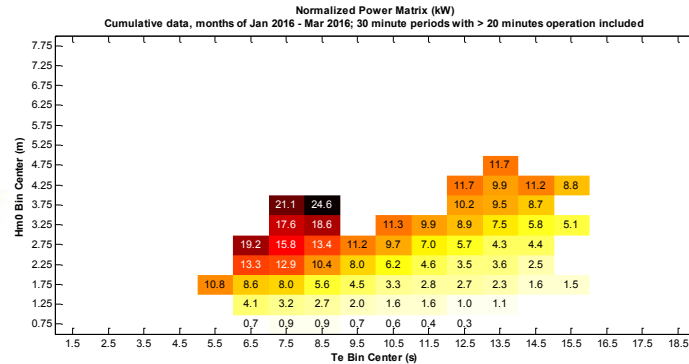
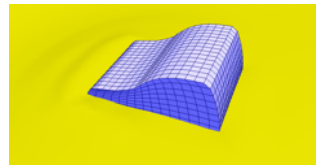


- Device Performance

- Development of measured power matrices
 - ROV and diver-based device and mooring inspections

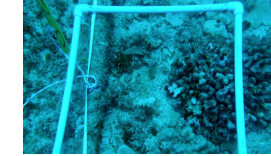
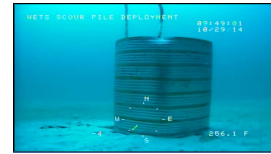
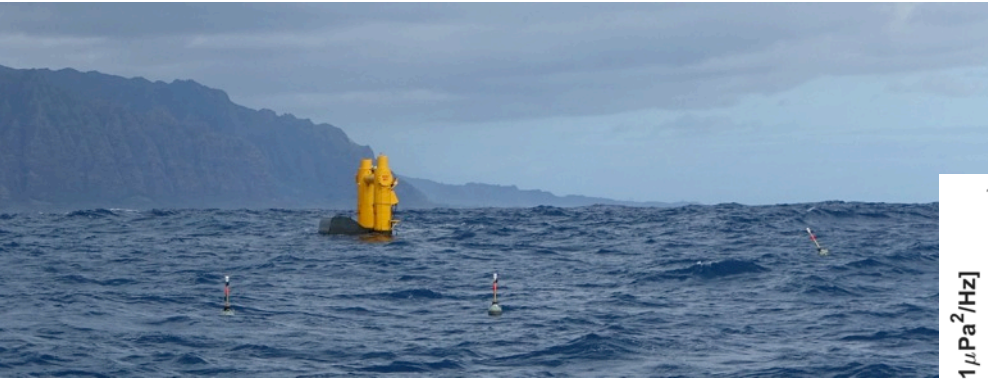
- Numerical Modeling

- Mid-fidelity: WECSIM, WAVEDYN, WAMIT
 - High-fidelity: FLOW-3D, OpenFOAM



HNEI Environmental Data Collection and O&M

- Sediment transport
- Ecological surveys and water chemistries
- Protected marine species monitoring
- Device and Ambient Acoustics
 - Fixed and drifting systems for temporal/spatial variability



- Site-dedicated Vessel
 - 85' LOA, adding 8' beam
 - 10-ton lift
 - Dive/ROV support
- Limited Device Maint \$

