

Drifting Acoustic Instrumentation for Marine Energy



Relation to Standards

Motivation

- Scientific Uncertainty Sound produced by marine energy converters may affect marine animals, but the characteristics of these sounds are not well-understood.
- Risk Retirement Accurate descriptions of acoustic emissions may allow regulators to "retire" some risks.



 Sound from marine energy converters have been under development since 2014 and are now in draft form.
Current Energy & OTEC Drifting measurements required for characterizing temporal and spatial

IEC TC 114 Standards for measuring

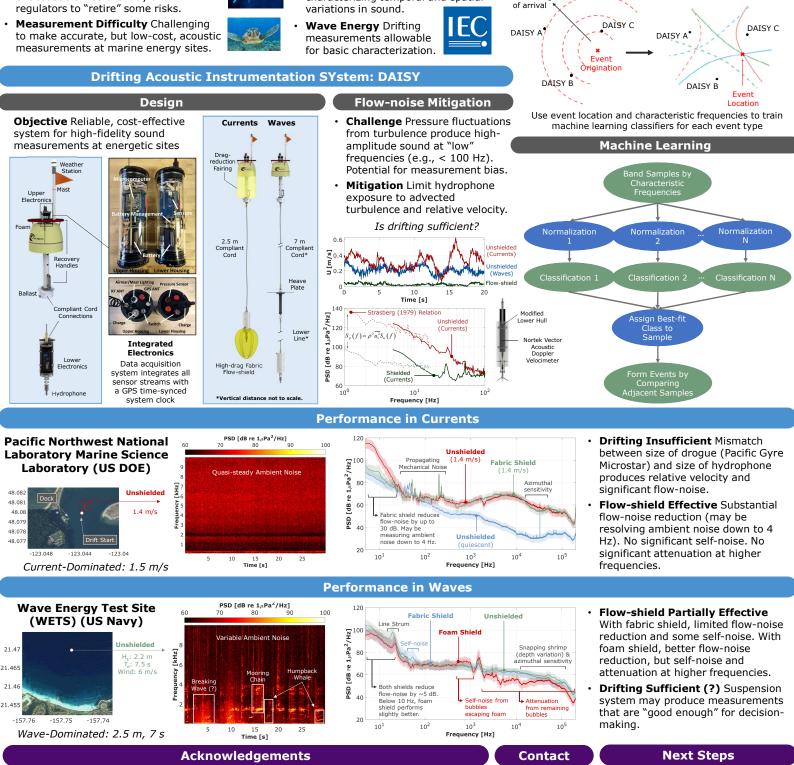
Sound Classification

PMEC

Often, multiple sources of natural and anthropogenic sound at a marine energy site. How do we objectively identify sounds originating from a marine energy converter?

Localize Received Sounds

Increasing time



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- Brian Polagye bpolagye@uw.edu +1 (206) 543-7544
- Flow-shield durability improvement
- Design adjustments for stability
- Test localization and classification
- in waves and currents (Fall 2018)