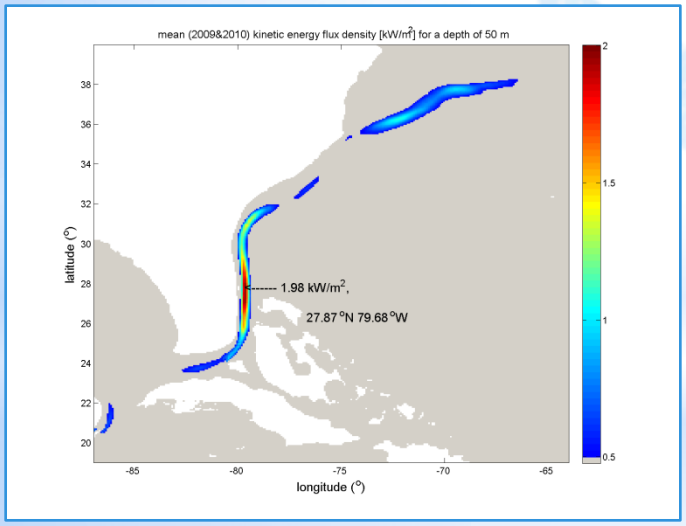
Southeast National Marine Renewable Energy Center

FAU
SOUTHEAST NATIONAL MARINE
RENEWABLE ENERGY CENTER

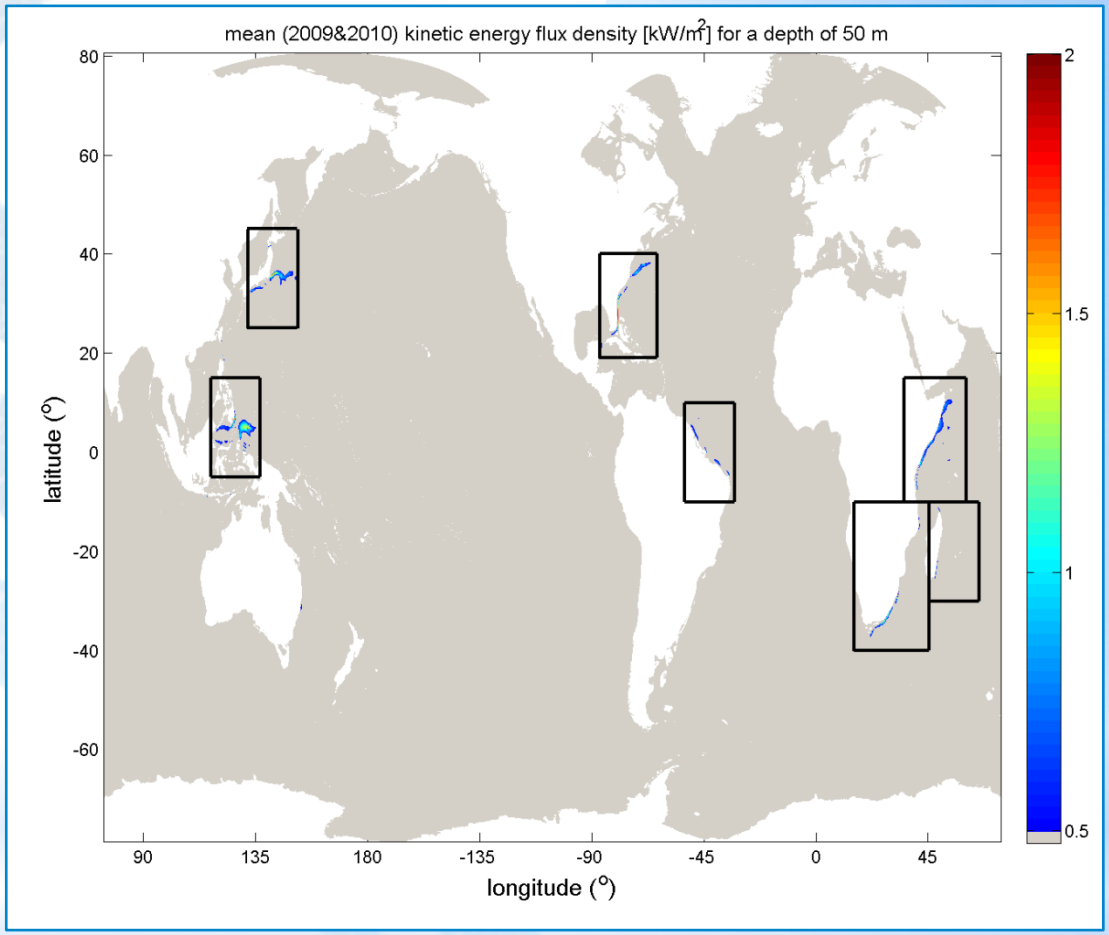
Worldwide Current Potential

A preliminary study suggests that various areas around the world possess at least 0.5 kW/m² of kinetic energy density (flux).

The U.S. (Florida) has the highest with approximately 2 kW/m².

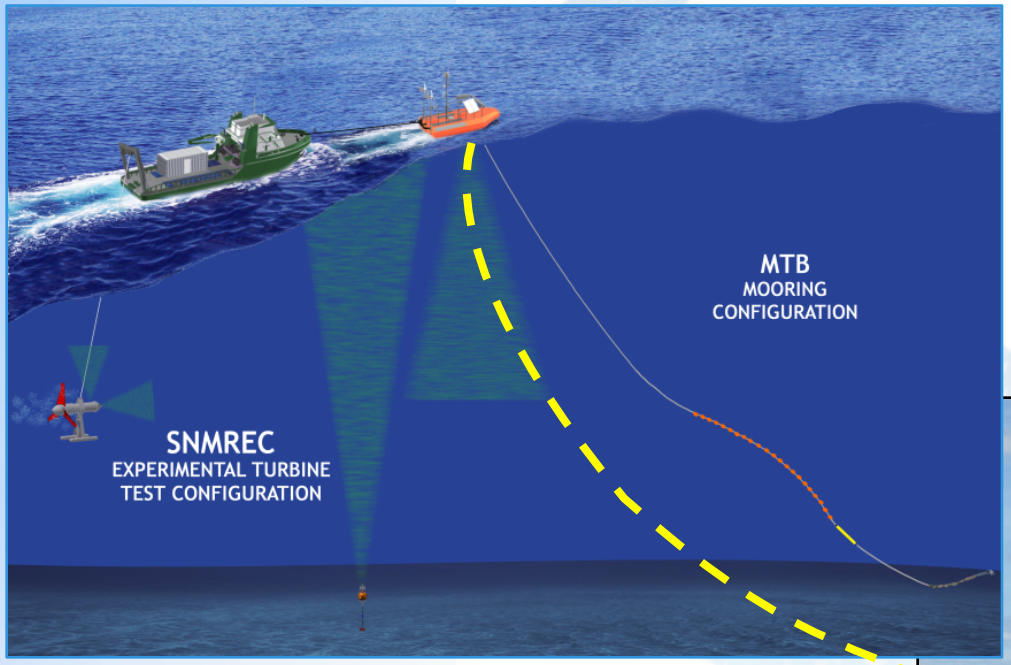


Gulf Stream (1.98 kW/m² max)

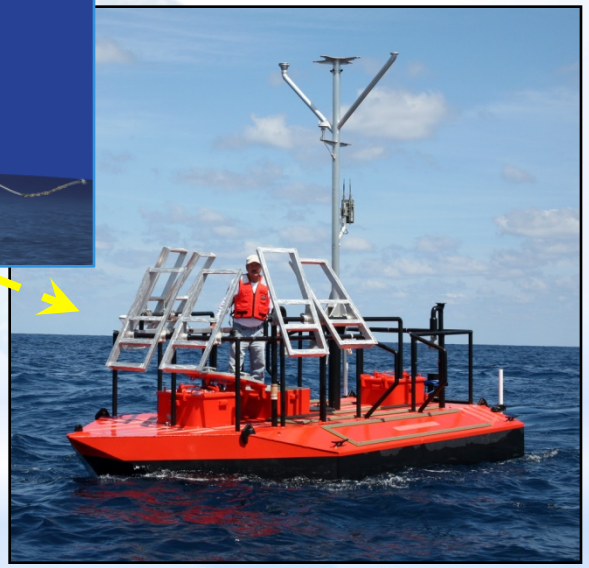


FAU
SOUTHEAST NATIONAL MARINE RENEWABLE ENERGY CENTER

Small-Scale Offshore Test Berth(s)



Will accommodate negatively buoyant ocean current units that produce less than 100kW max power and less than 7 meter diameter rotors.

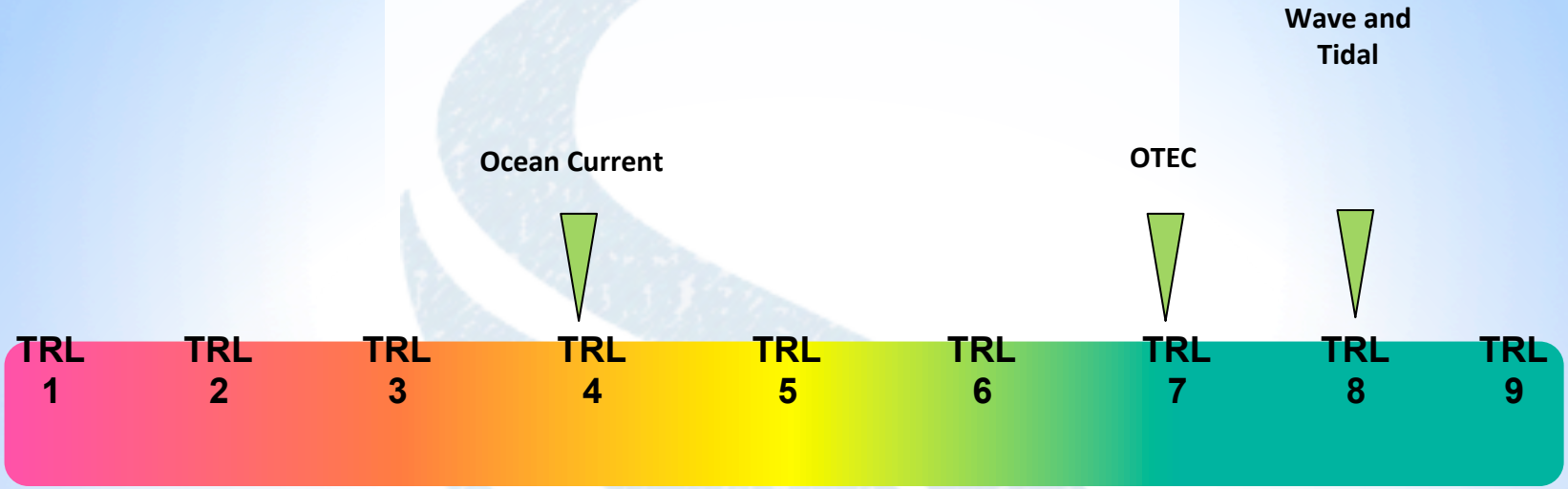


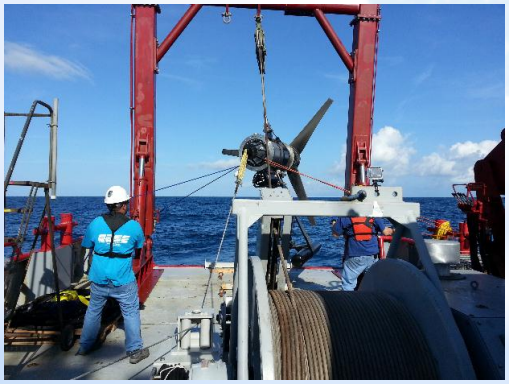
Mooring & Telemetry Buoy during sea trials.

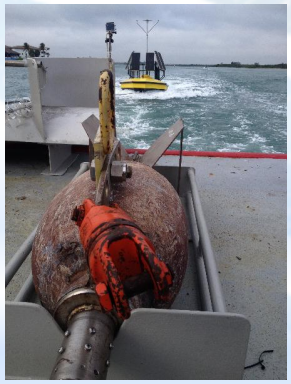
Demonstration and validation of pre-prototype concepts with 2nd party certification, in-place regulatory framework, deployment assistance

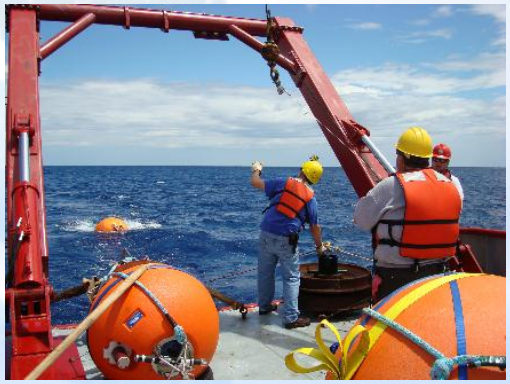
FAU
SOUTHEAST NATIONAL MARINE RENEWABLE ENERGY CENTER

Ocean Current MHK Industry 2014









FAU
SOUTHEAST NATIONAL MARINE RENEWABLE ENERGY CENTER