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INITIATIVE

# OOI Coastal Endurance Equipment Engineering Considerations



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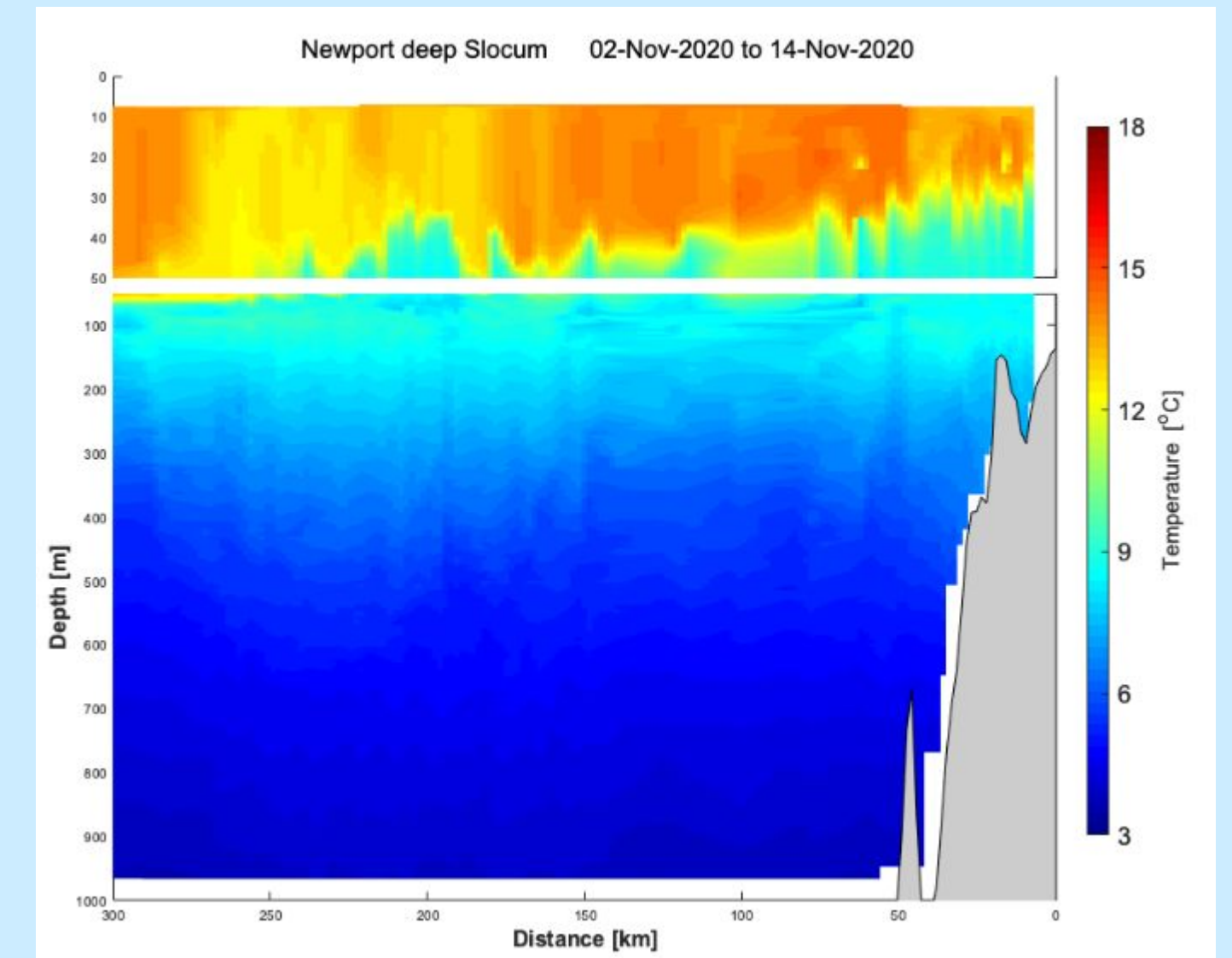
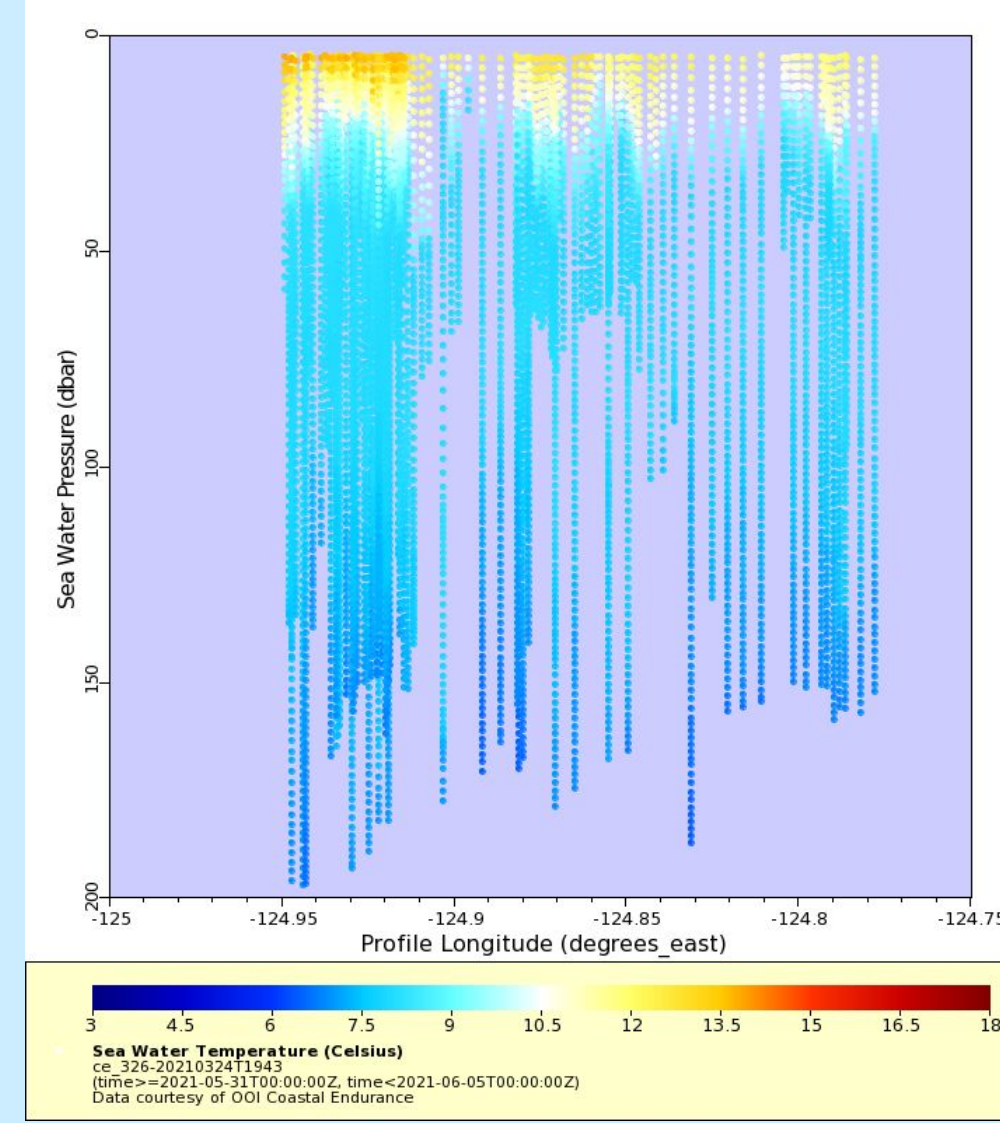


**Jonathan Fram**  
Endurance Array Project Manager  
OSU Associate Professor Senior Research





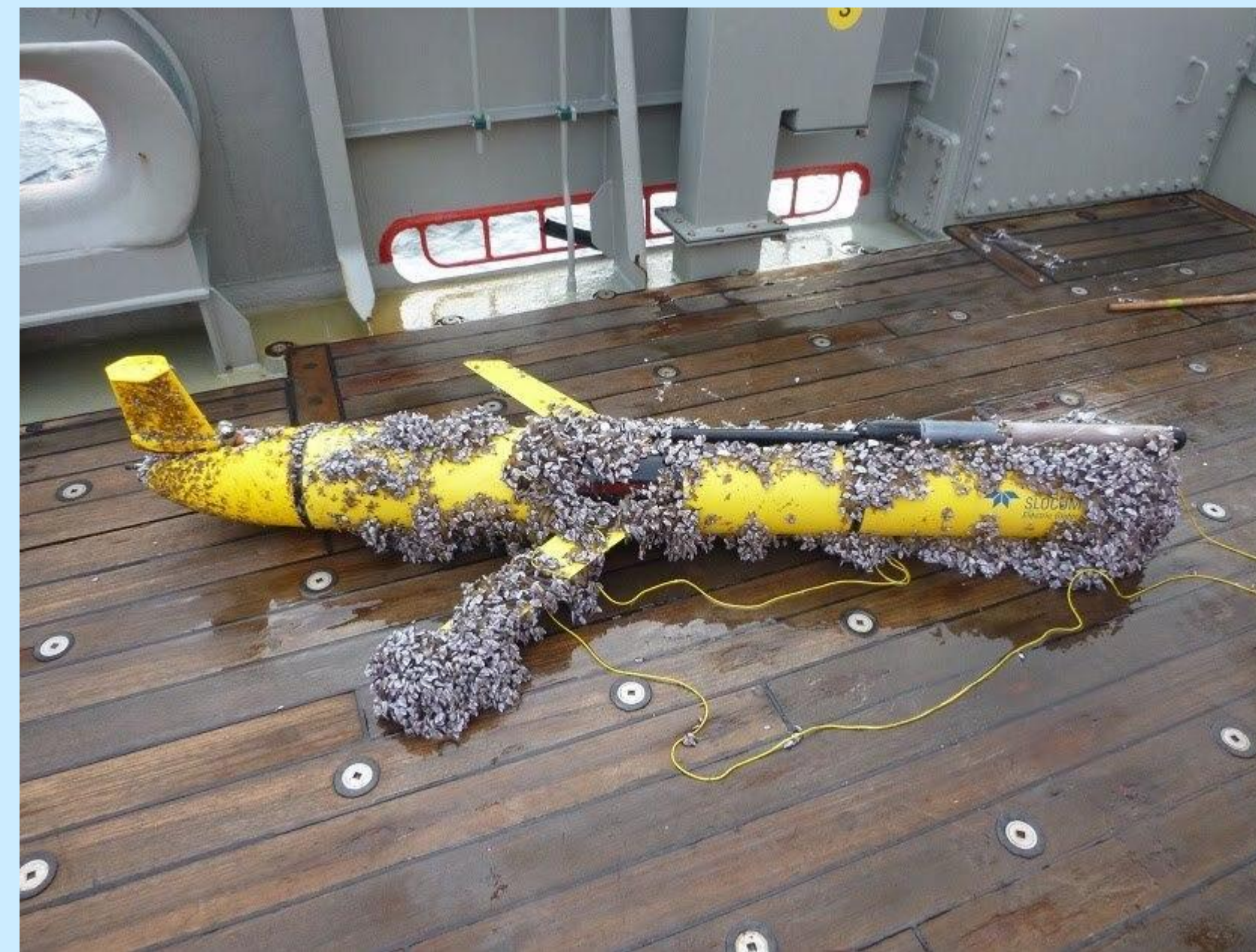
# Gliders



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Raw data from <https://gliders.ioos.us/erddap> Data from <http://nvs.nanoos.org/GliderOoiNewportDeep>

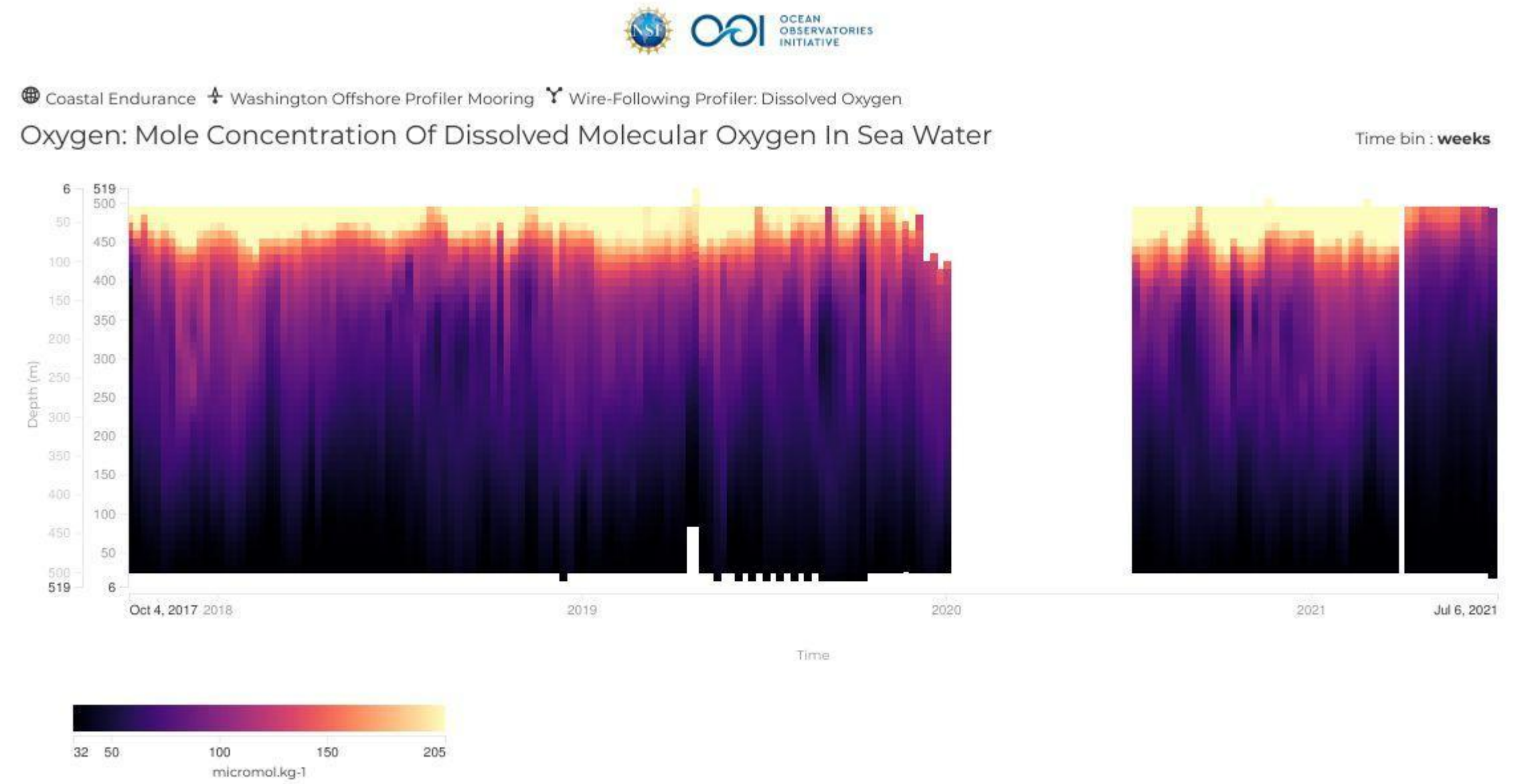
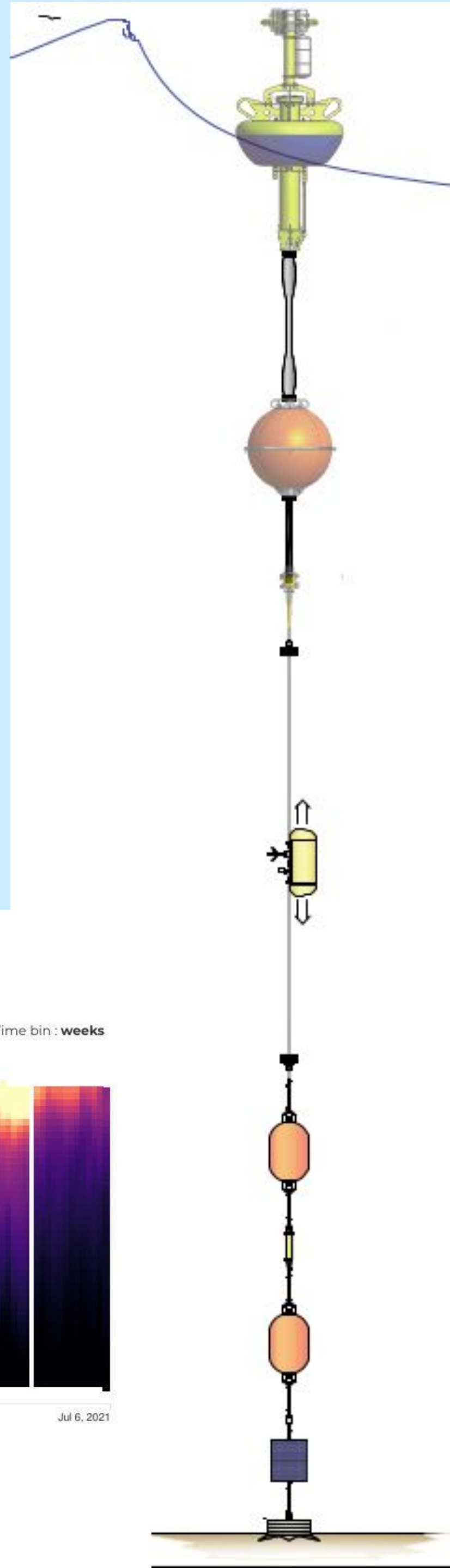
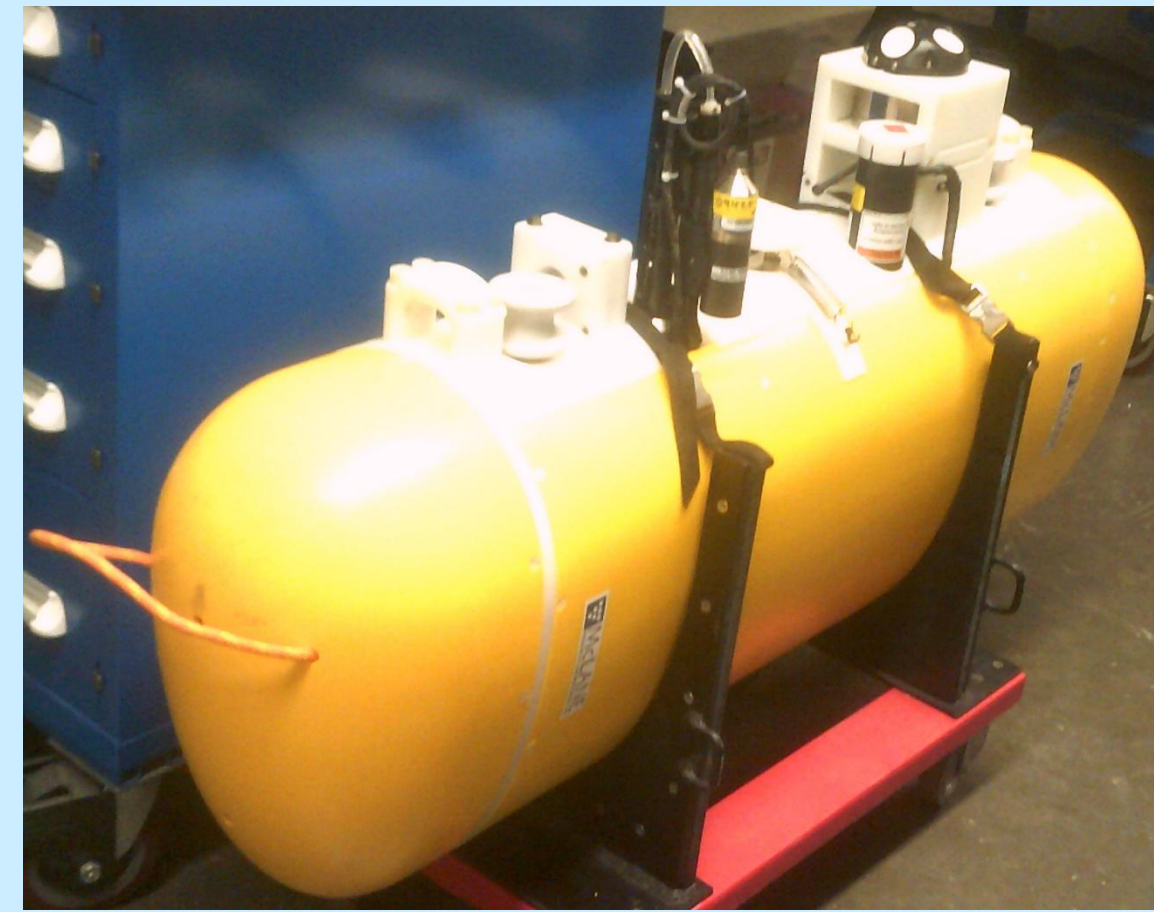


Glider covered in barnacles



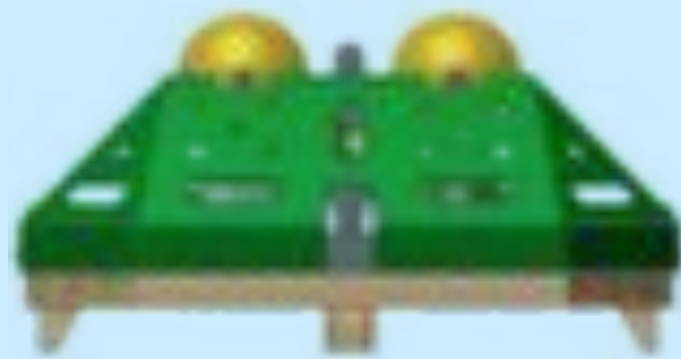
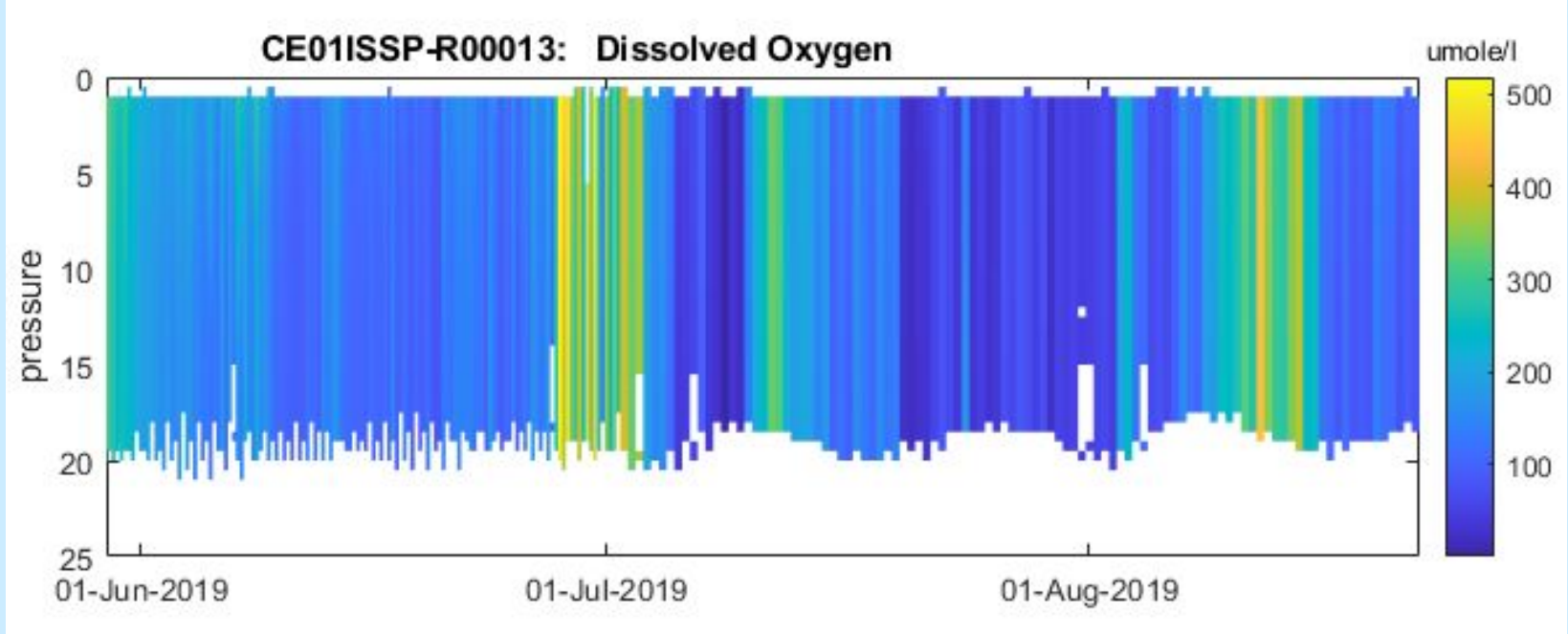


# Wire Following Profiler Mooring





# Coastal Surface Piercing Profilers



Copper and wipers prevent sensor biofouling

Protected Oxygen sensor

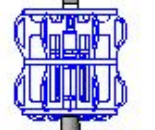
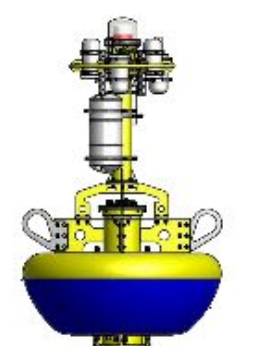
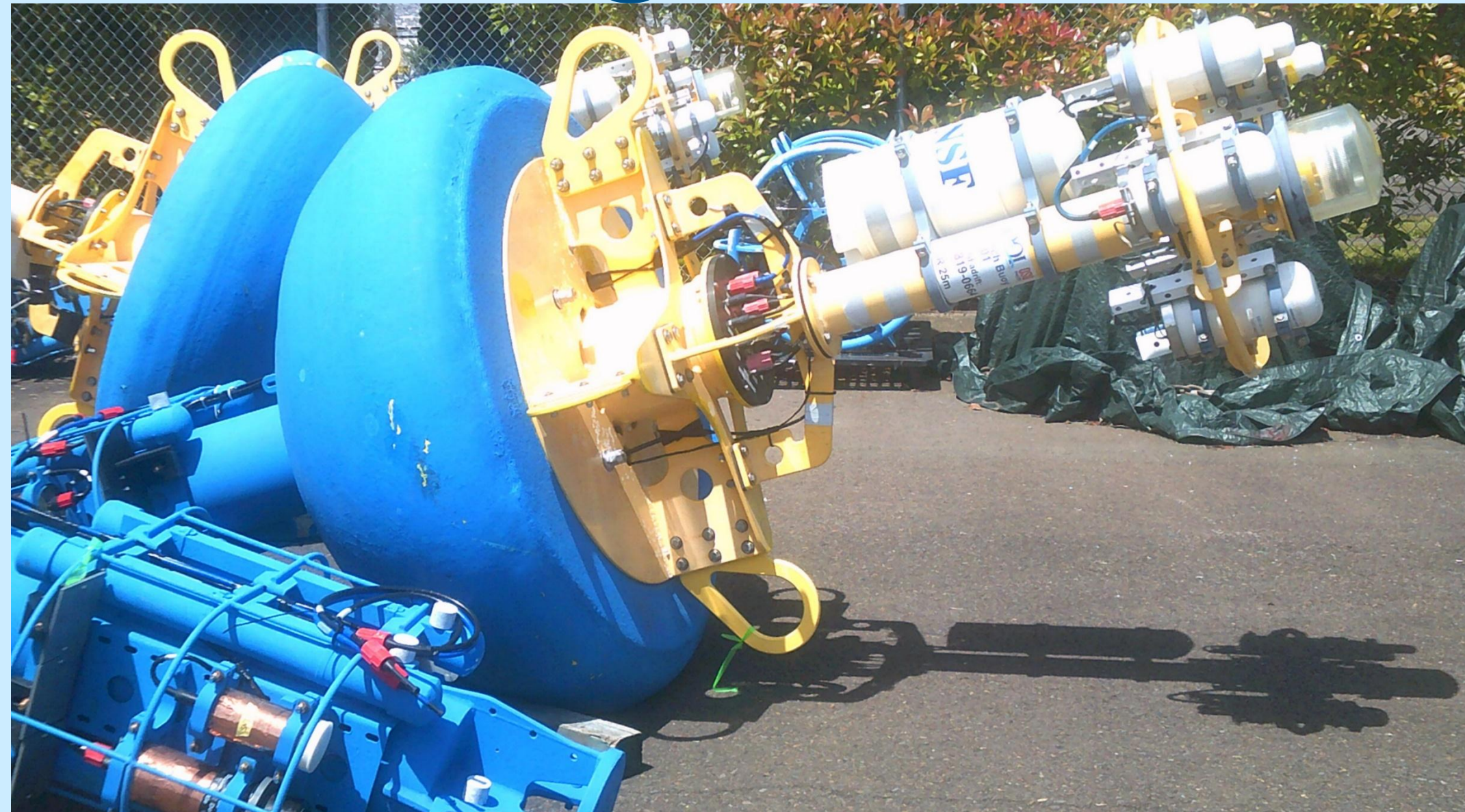
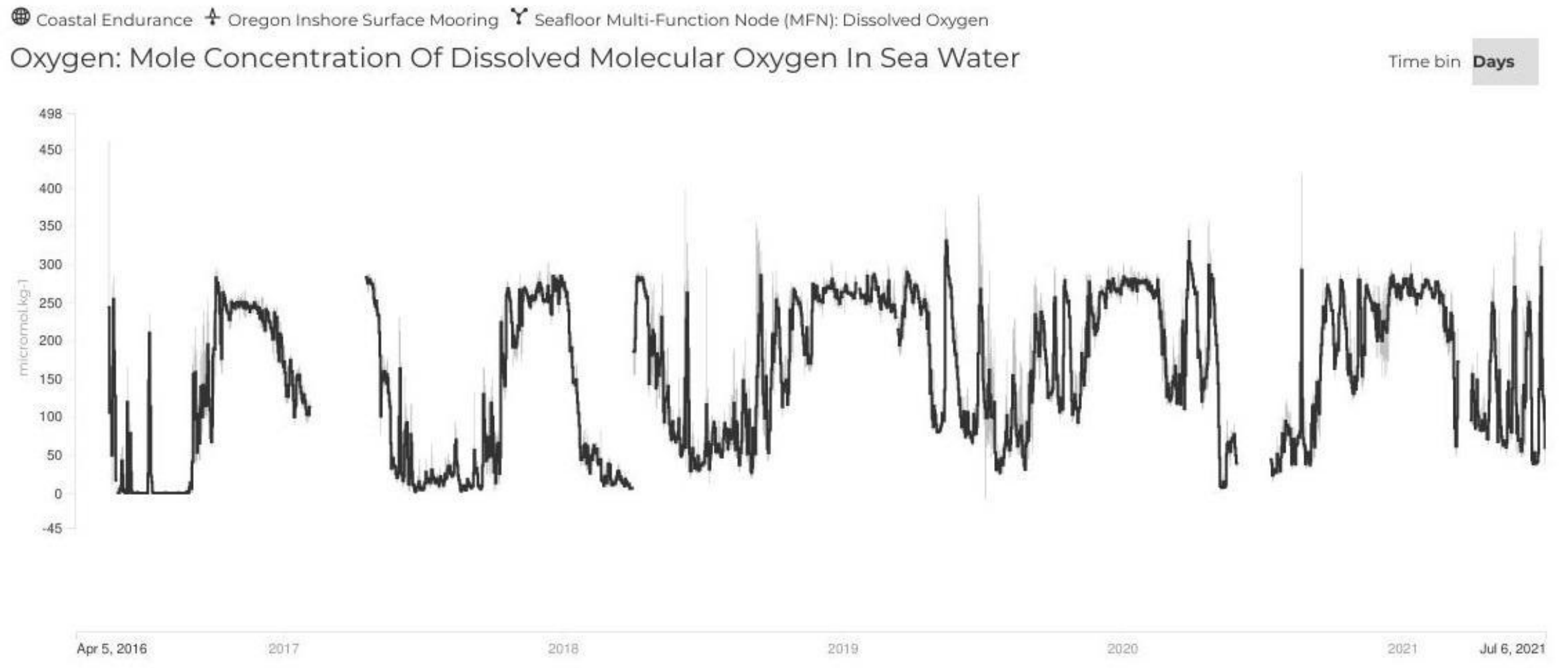
UV light prevents biofouling on sensors

Protected 7-color light sensor

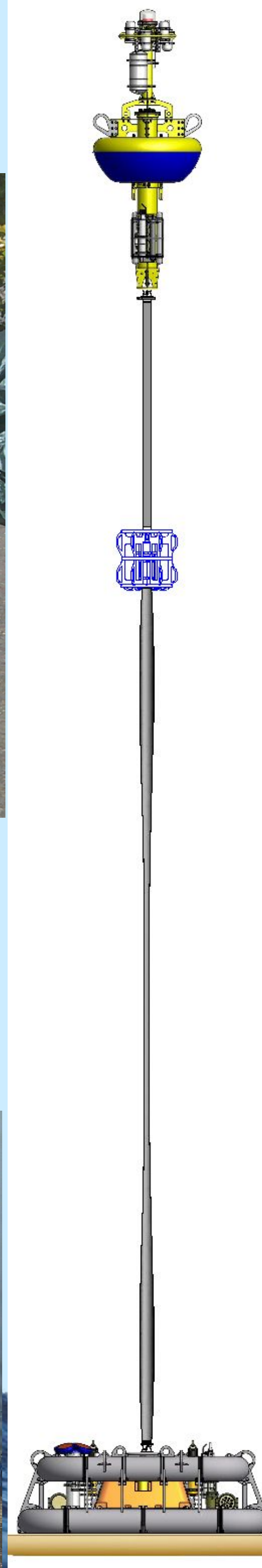




# Inshore Submersible Surface Moorings

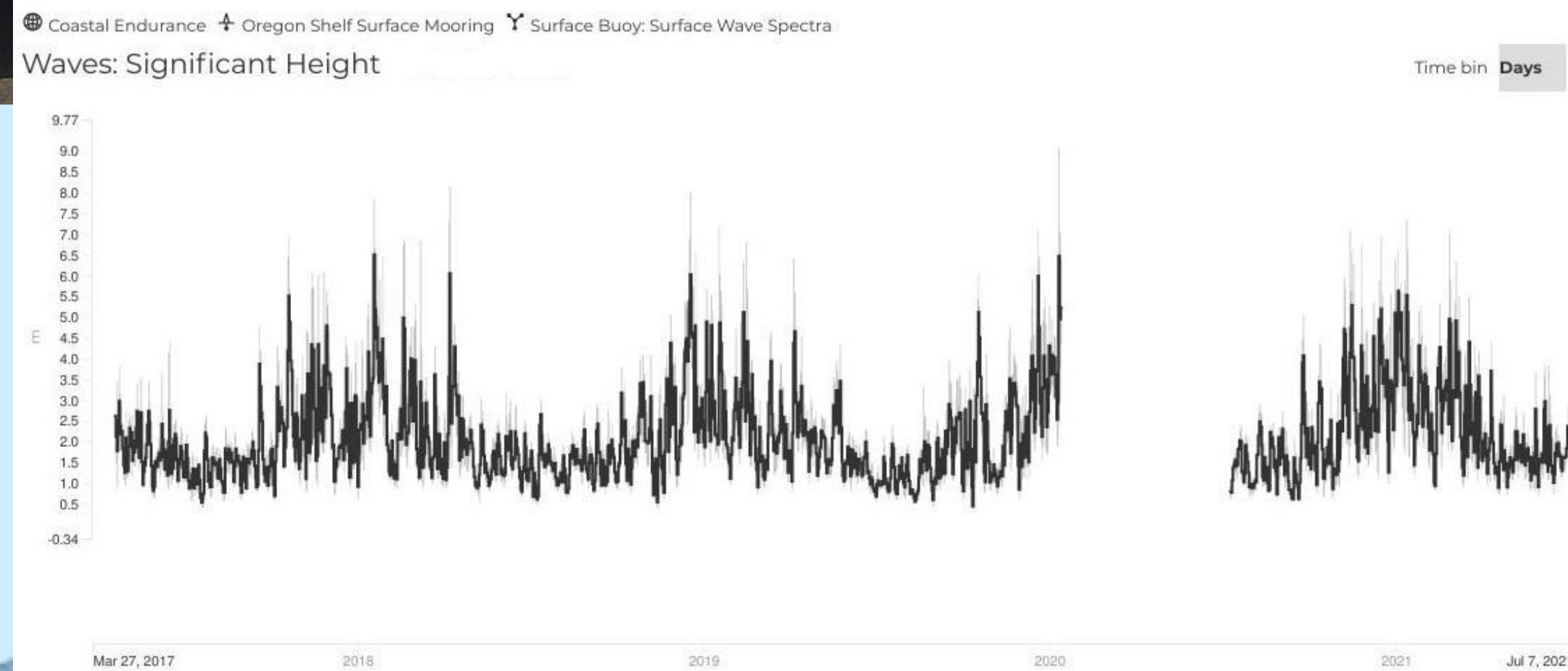
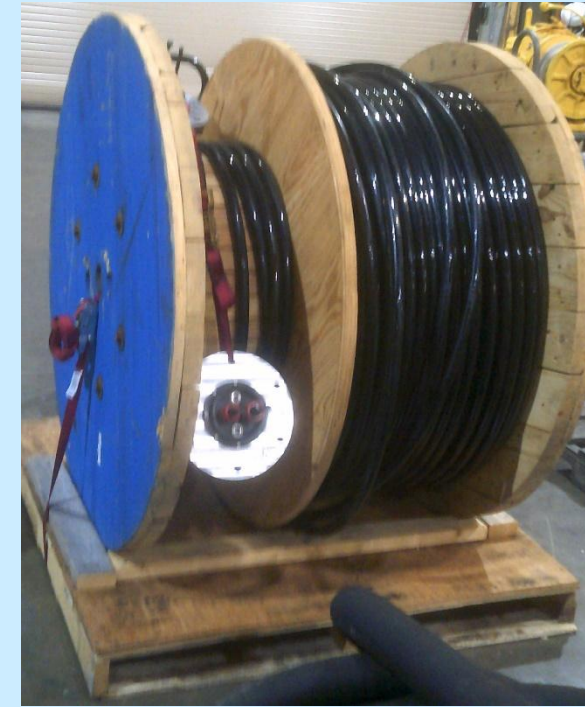


**Application of diaper cream on acoustic transducers to prevent biofouling**



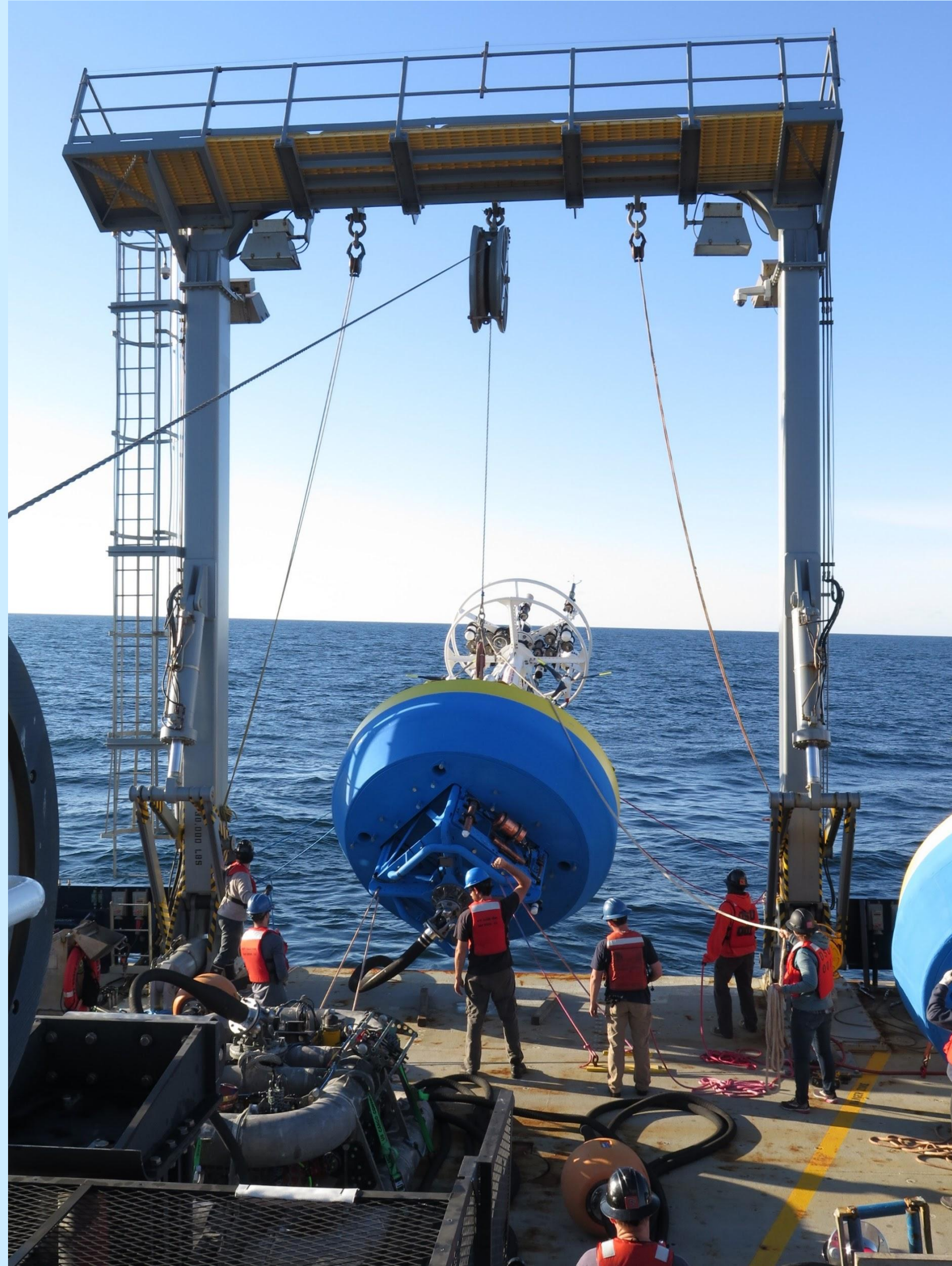


# Coastal Surface Moorings





# Coastal Surface Moorings



**Large vessel needed for deployment**



**Biofouling**