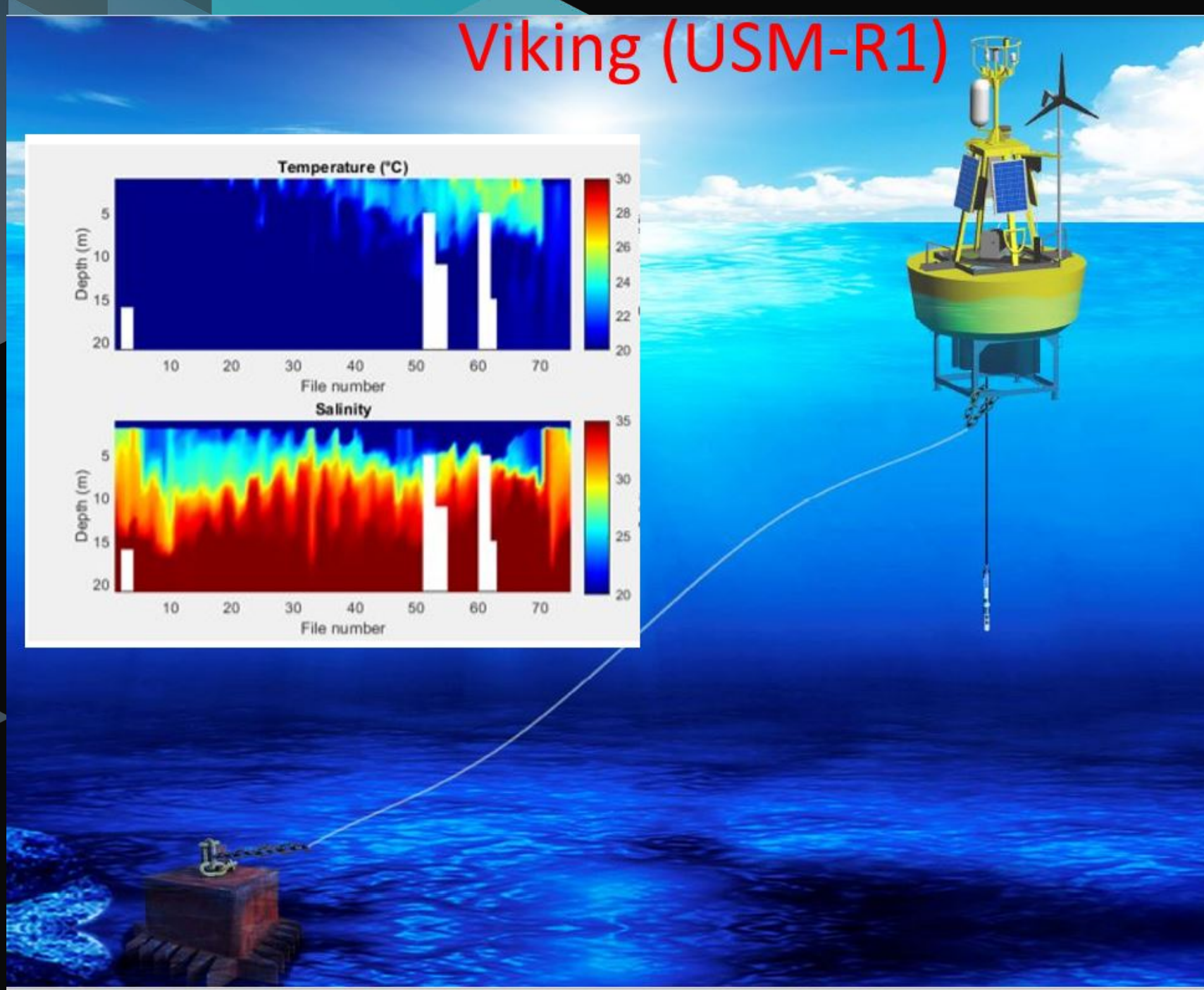


HIGH RESOLUTION IN-SITU OCEANOGRAPHIC AND METEOROLOGICAL DATA: THE 4-DIMENSION OCEAN CUBE NETWORK



Viking: The oceanographic and meteorological buoy equipped with a automatic CTD profiler.

Meteorological parameters

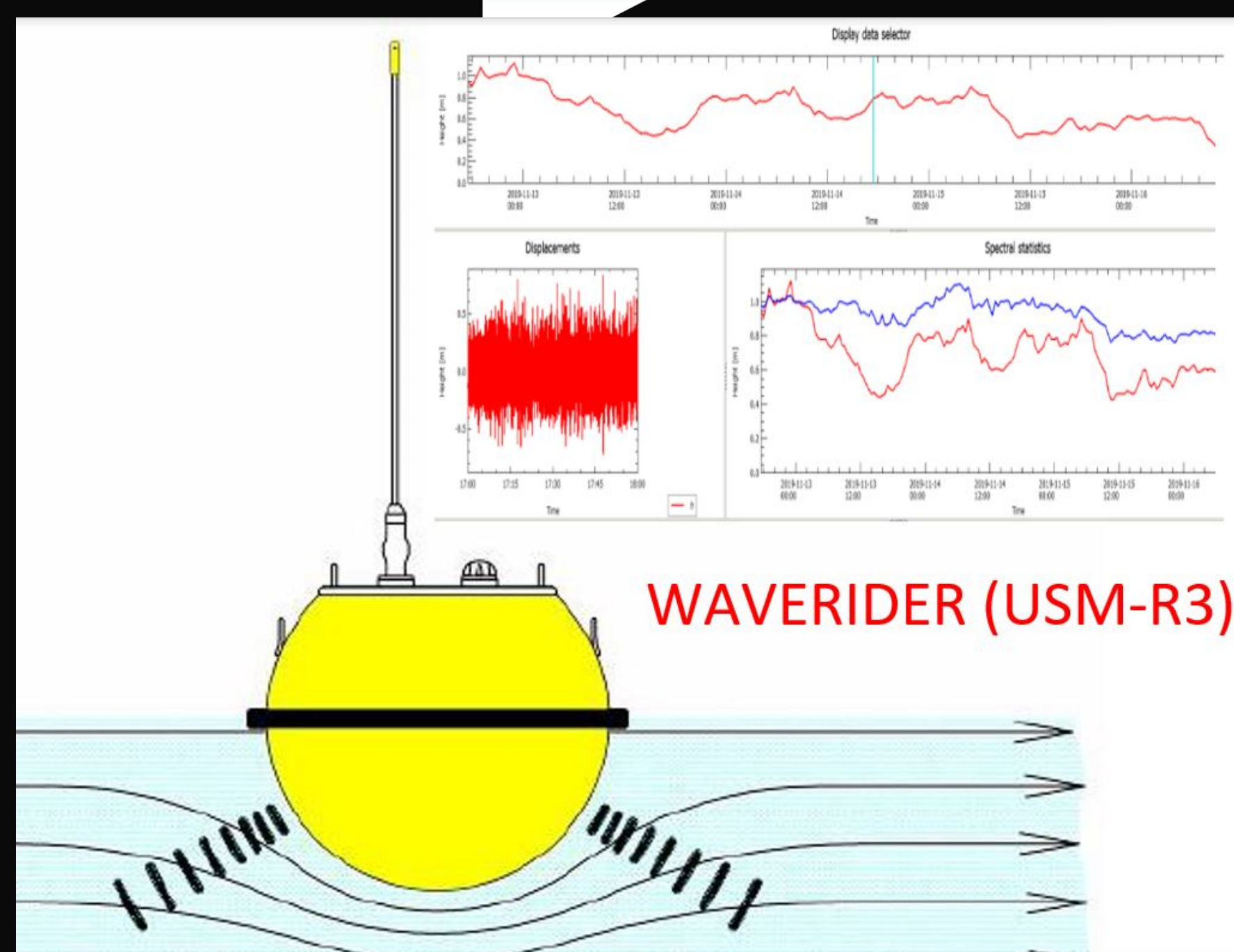
- Wind direction and speed
- Atmospheric temperature and humidity
- Atmospheric pressure

Oceanographic parameters

- Water temperature
- Water salinity, density and conductivity
- Measurement of the water flow at many programmable depths

WaveRider: Wave motion sensor based on a stabilised platform, accelerometers, and magnetic compass

- Wave height, wave period, wave direction
- Sea Surface Temperature, surface current

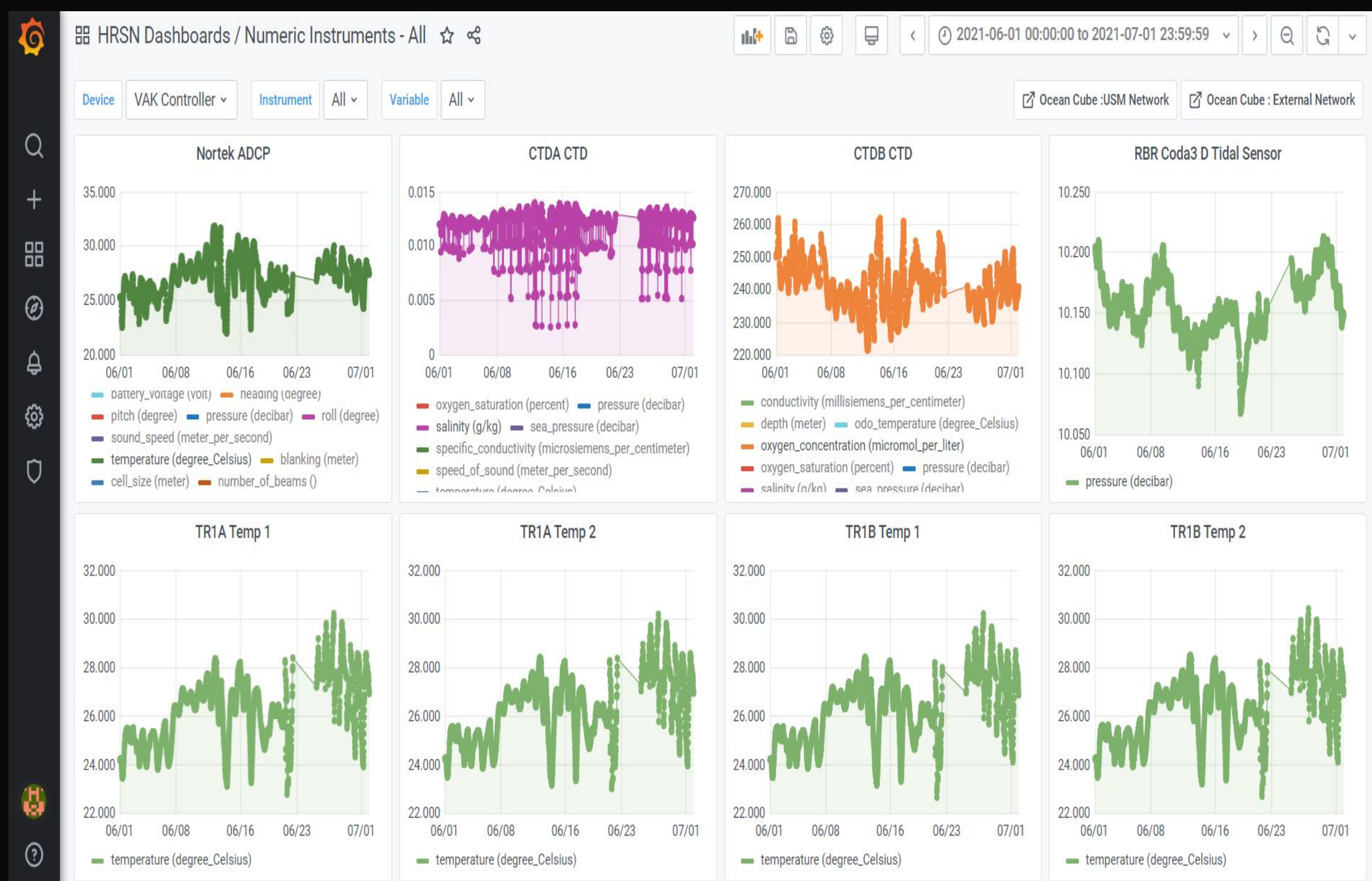
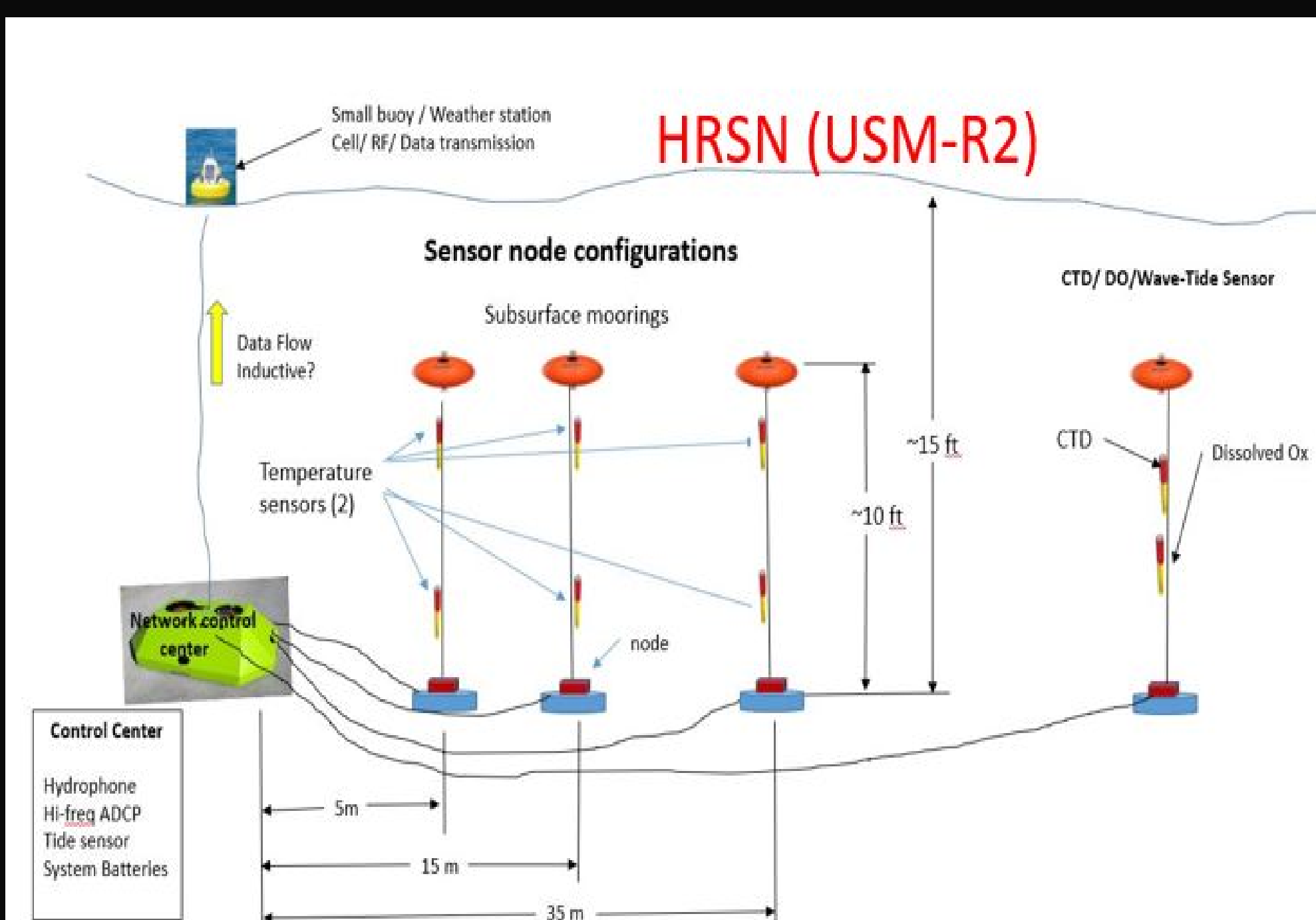


Sensor Network: High-resolution network of underwater instruments continuously monitoring underwater and surface conditions.

- 18 temperature sensors, 2 CTD/DO, tide sensor, wave sensor, weather station, wind sensor, ADCP, and Hydrophone
- Water temperature, salinity, oxygen concentration
- Current speed and direction
- Wave height, direction and period
- Air temperature, humidity and pressure
- Wind speed and direction
- Acoustic data

Grafana: A multi-platform open source analytics and interactive visualization web application utilizing real-time data stored in the OceanCube database.

- Access real-time data and download
- Create user defined charts , graphs and alerts



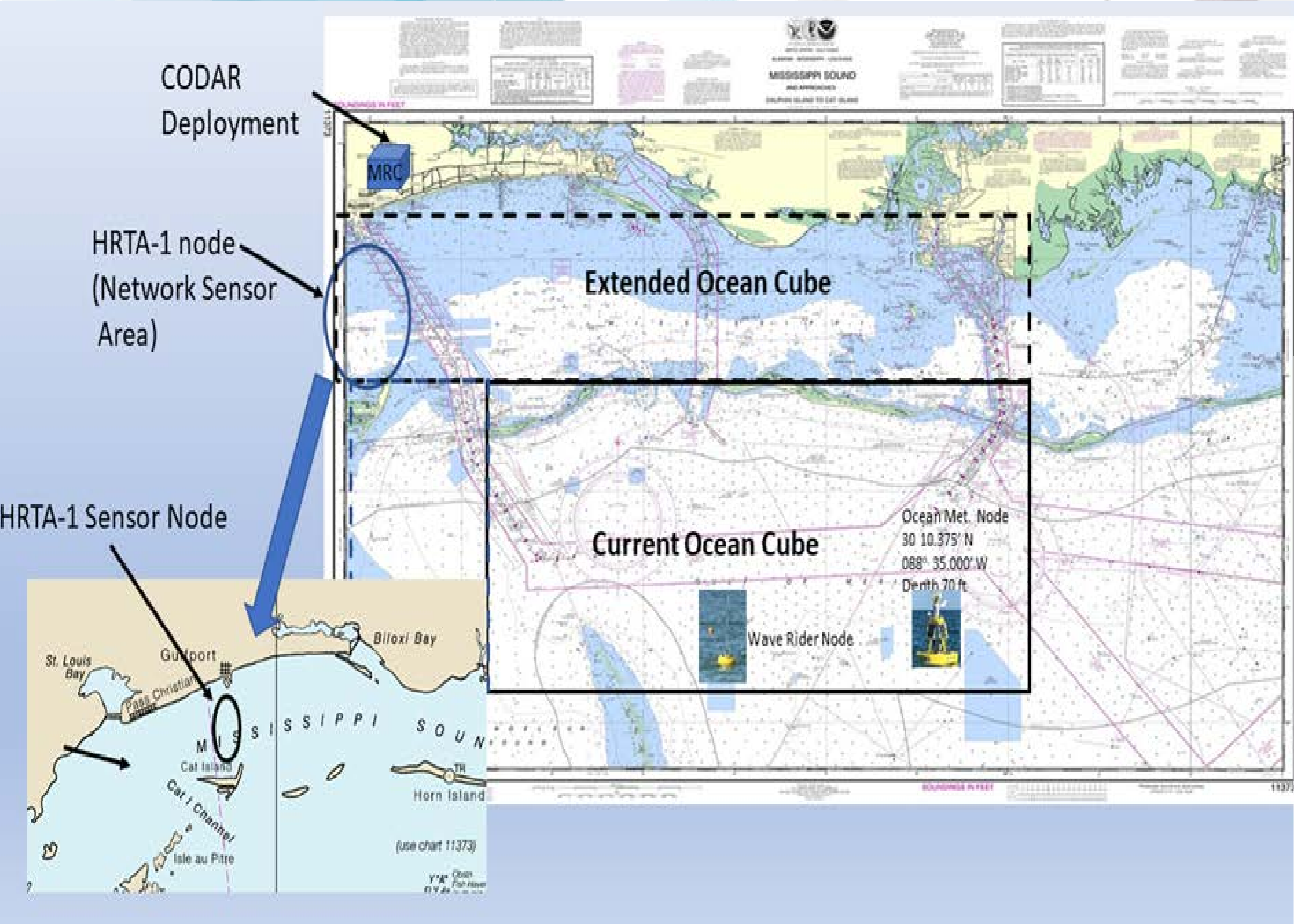
Vishwamithra Sunkara, Landry Bernard, Steve Stanic,
Jason McKenna, and *James Braud
University of Southern Mississippi,*Peraton

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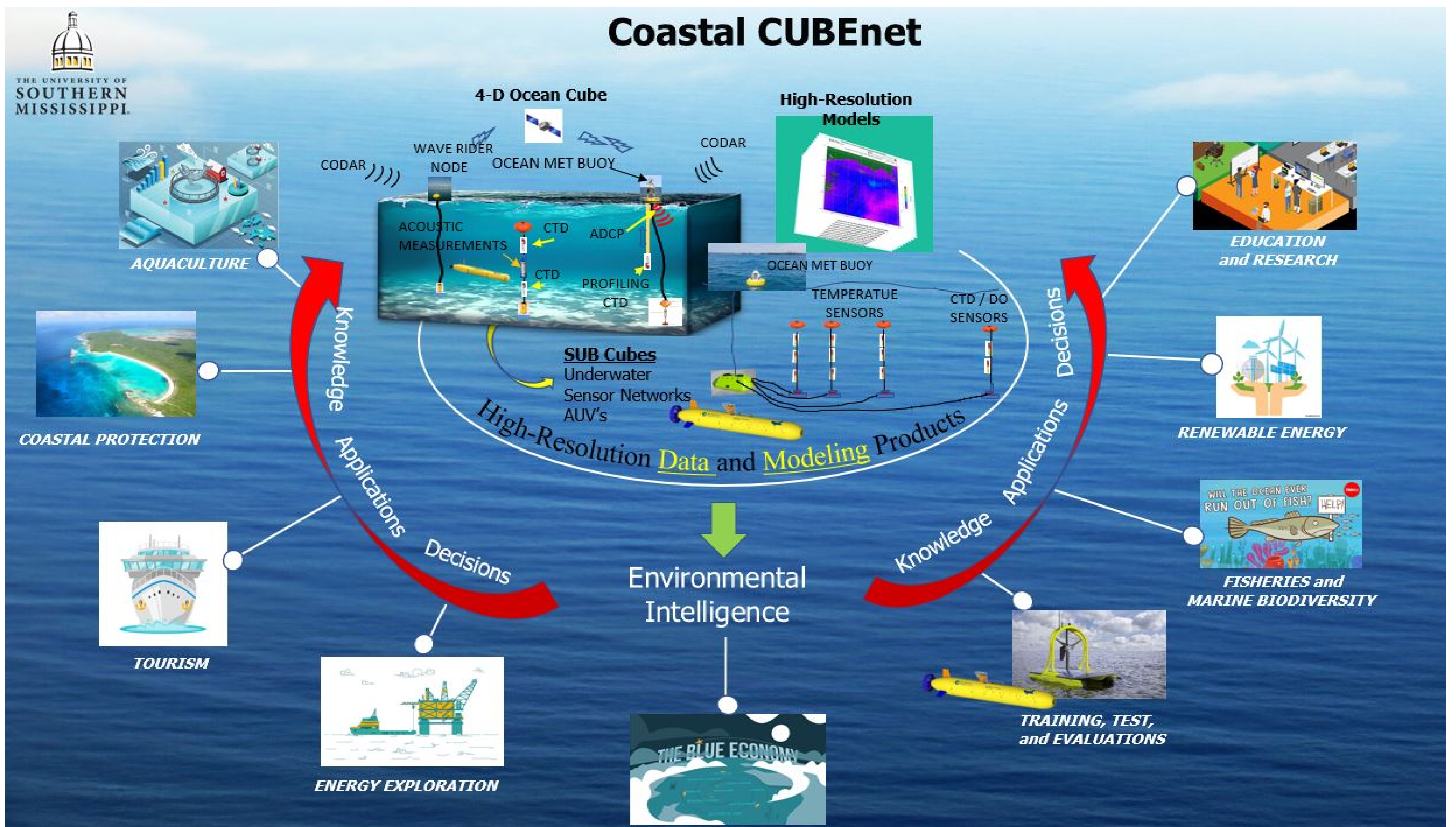
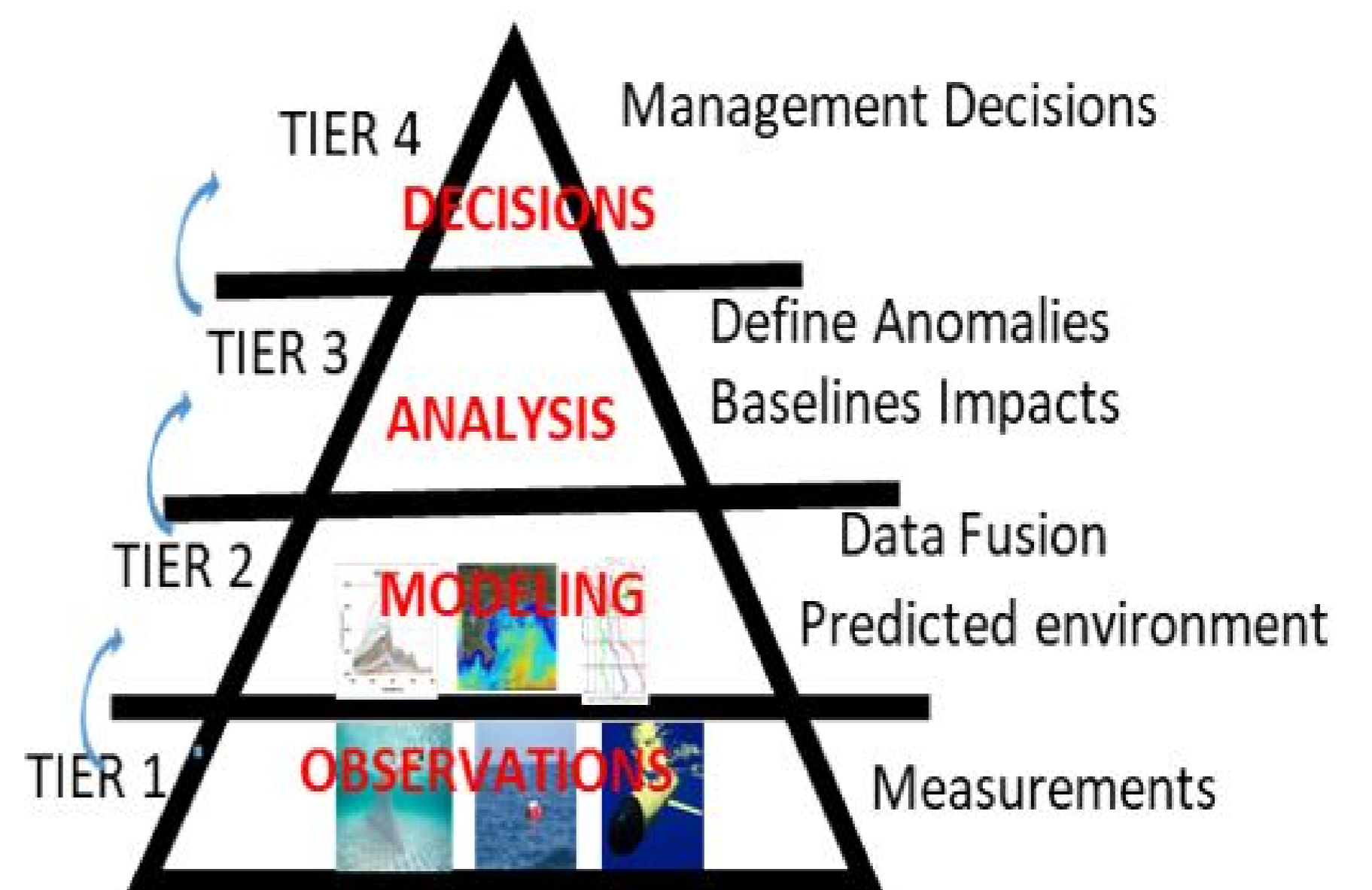


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Web Link: oceancube.usm.edu



Linking Observations and Models to Informed Decisions



Vishwamithra Sunkara, Landry Bernard, Steve Stanic, Jason McKenna, and *James Braud
University of Southern Mississippi, *Peraton



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