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Robotic Ocean Observations

The strength of autonomous platforms

CSIR
our future through science

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ROAM MIZ
OBSERVE • RESEARCH • EXPLORE

Martin Mohrmann, PhD student at the University of Gothenburg

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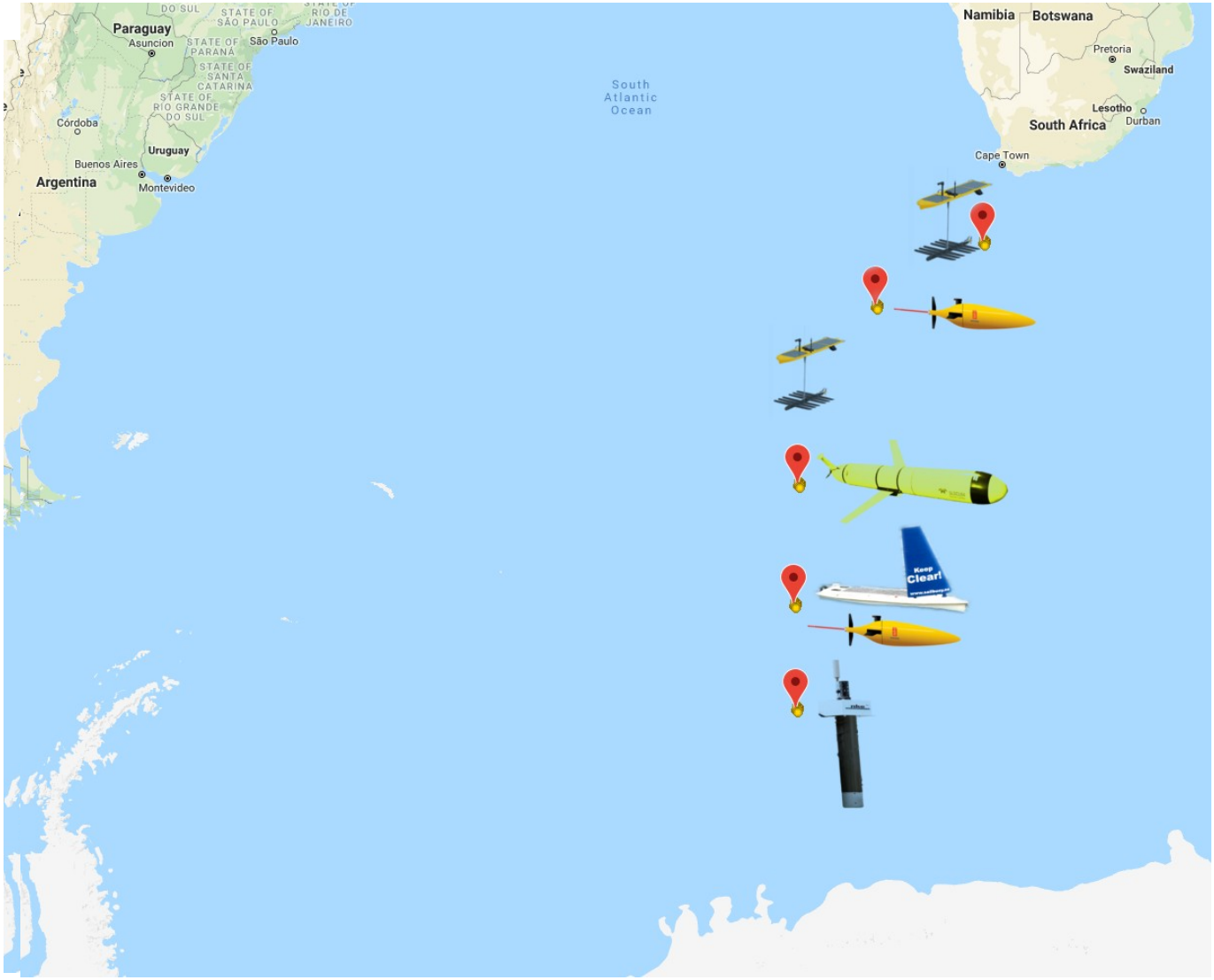

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Profiling float

- Measuring waters salinity and temperature
- Drifting passively with the currents
- Battery lifetime up to four years
- Can measure under sea ice

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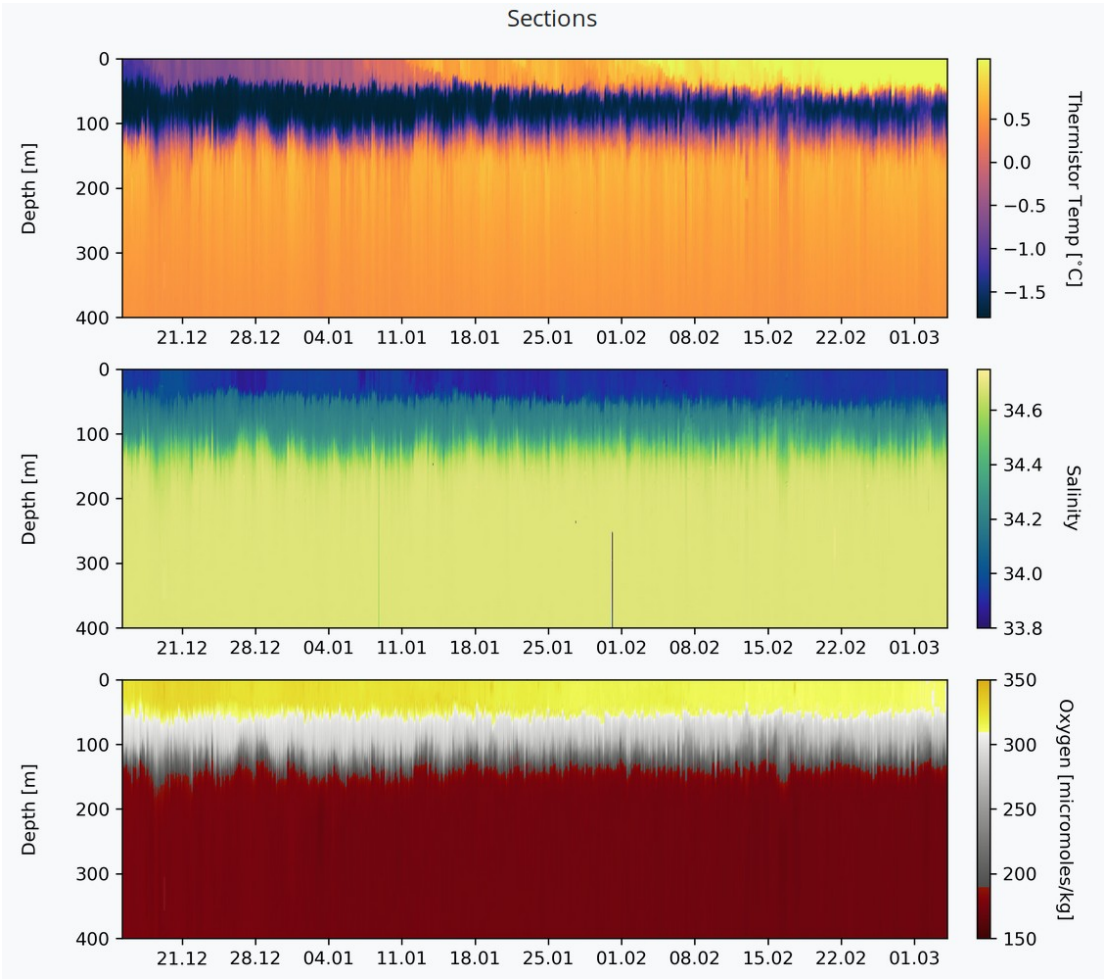
Seaglider

- Fluorescence, Oxygen, salinity, currents, micro-structure, temperature
- 1000m depth
- Several month battery power
- Actively moving with buoyancy changes



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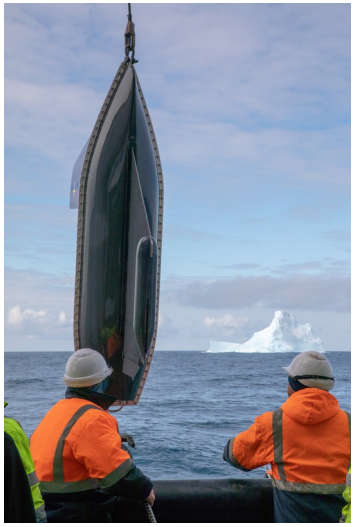
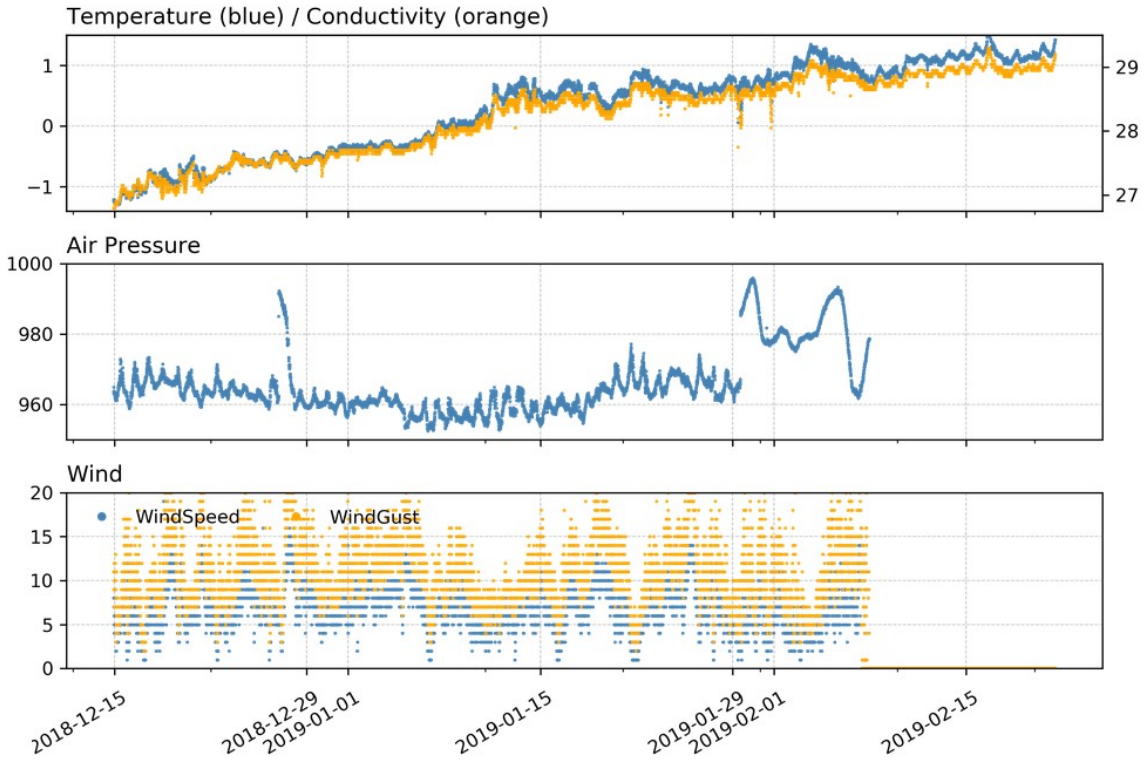
Sailbuoy



- Air and water measurements
- Self sustainable with sun energy
- Measures atmospheric pressure, winds, air and water temperature, currents direction



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Wave Gliders

- Harvest energy with solar panels
- Active fins to travel by wave momentum
- Measurement close to the surface in the mixed layer