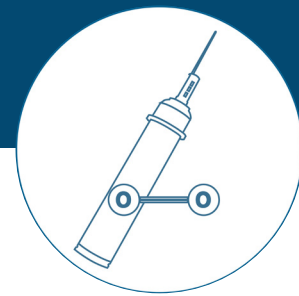


Fact Sheet



Biogeochemical Argo

Biogeochemical Argo floats are profiling floats that, in addition to temperature and salinity, carry sensors to measure any combination of dissolved oxygen, pH, dissolved nitrate, chlorophyll fluorescence, particulate backscatter and incoming solar radiation. These measurements are used to address science questions regarding variability in the oceans' biological carbon pump, the uptake of anthropogenic CO₂ by the ocean, deoxygenation and acidification, marine resource management and validation of satellite observations. The IMOS Biogeochemical Argo sub-facility will deploy Biogeochemical Argo floats in scientifically important areas of Australia's Exclusive Economic Zone, surrounding seas and the Southern Ocean.

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The data will provide a continuously growing time series of essential ocean variables for marine and coastal environments, and help with understanding the impact of changes in the physical environment on biogeochemical cycles and ecosystems.

The global Biogeochemical Argo array will drive a transformative shift in our ability to observe and predict the effects of climate change on ocean metabolism, carbon uptake and marine ecosystems.

