

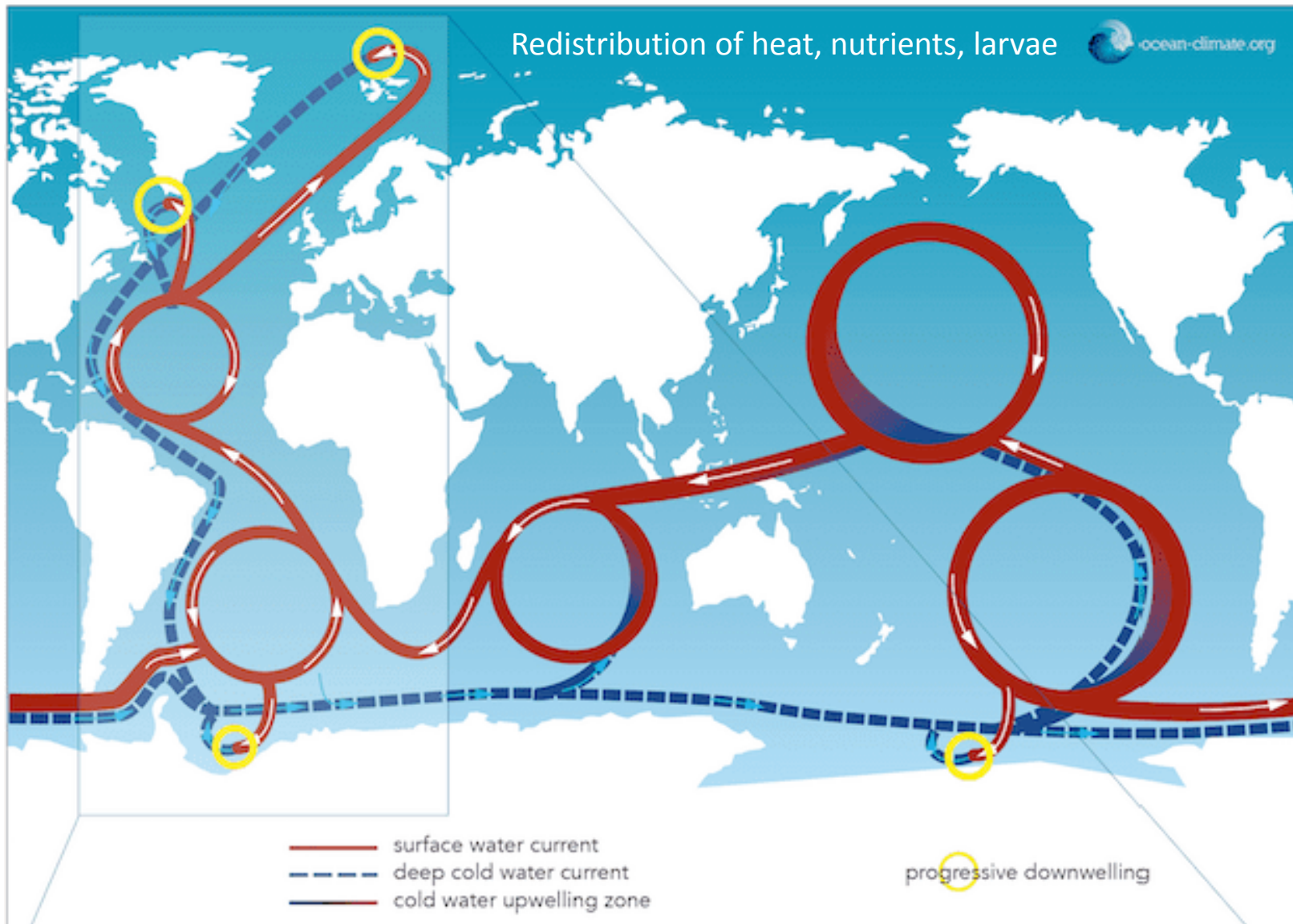


Importance of integrated ocean observation and networks to understand our ocean

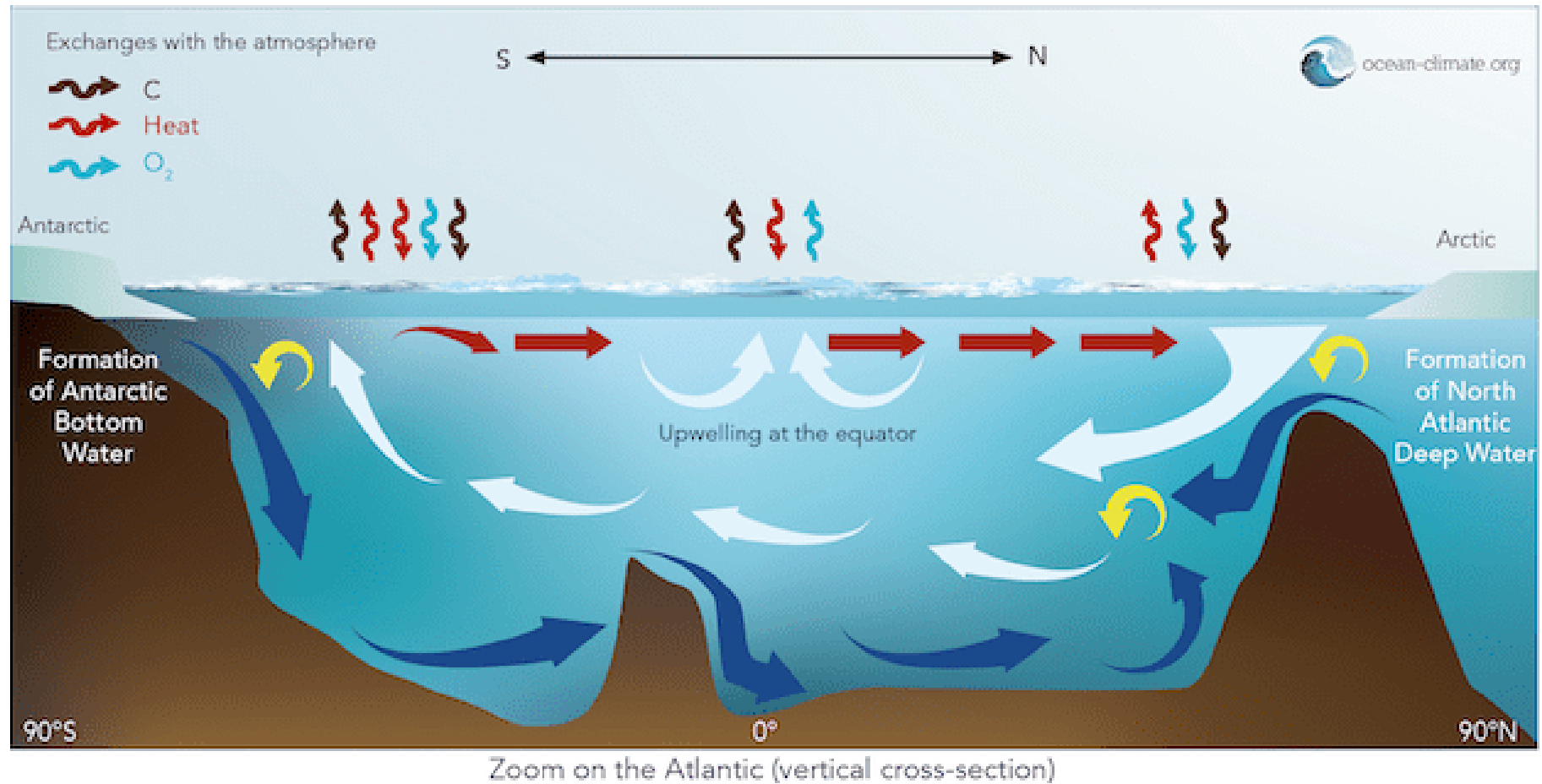


Femke de Jong
Royal Netherland Institute for Sea Research

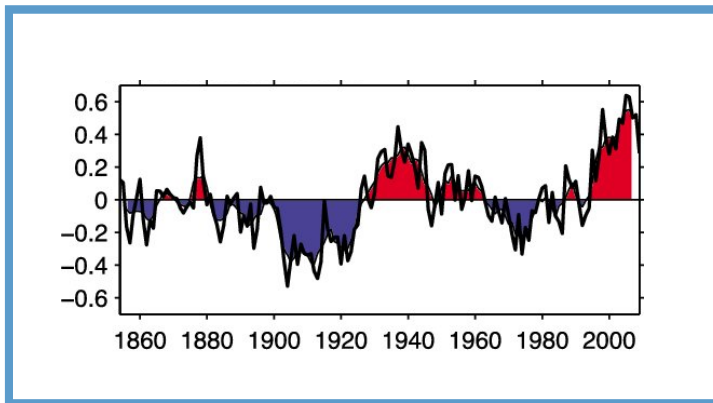




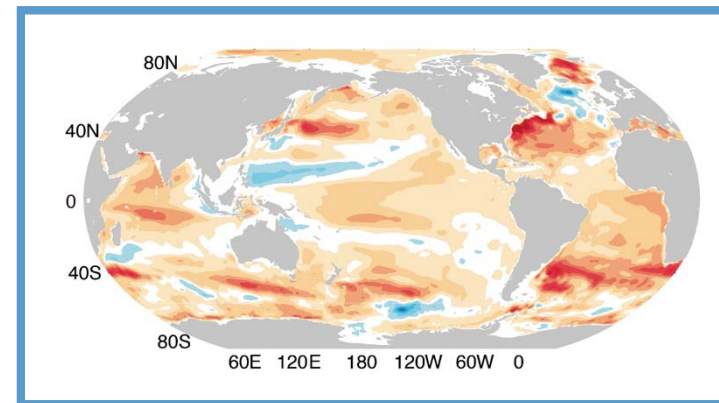
Atlantic circulation, crucial for climate and ecosystems, is known to vary in time



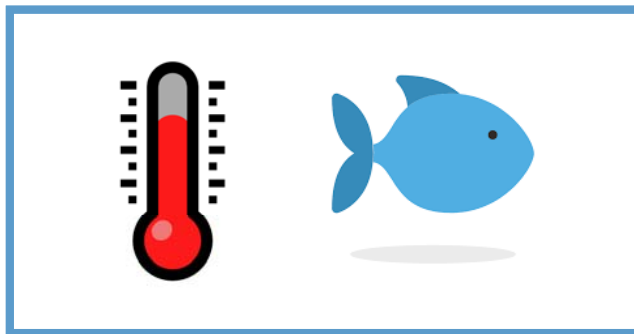
Variability in time



Variability in space



Variability in parameters

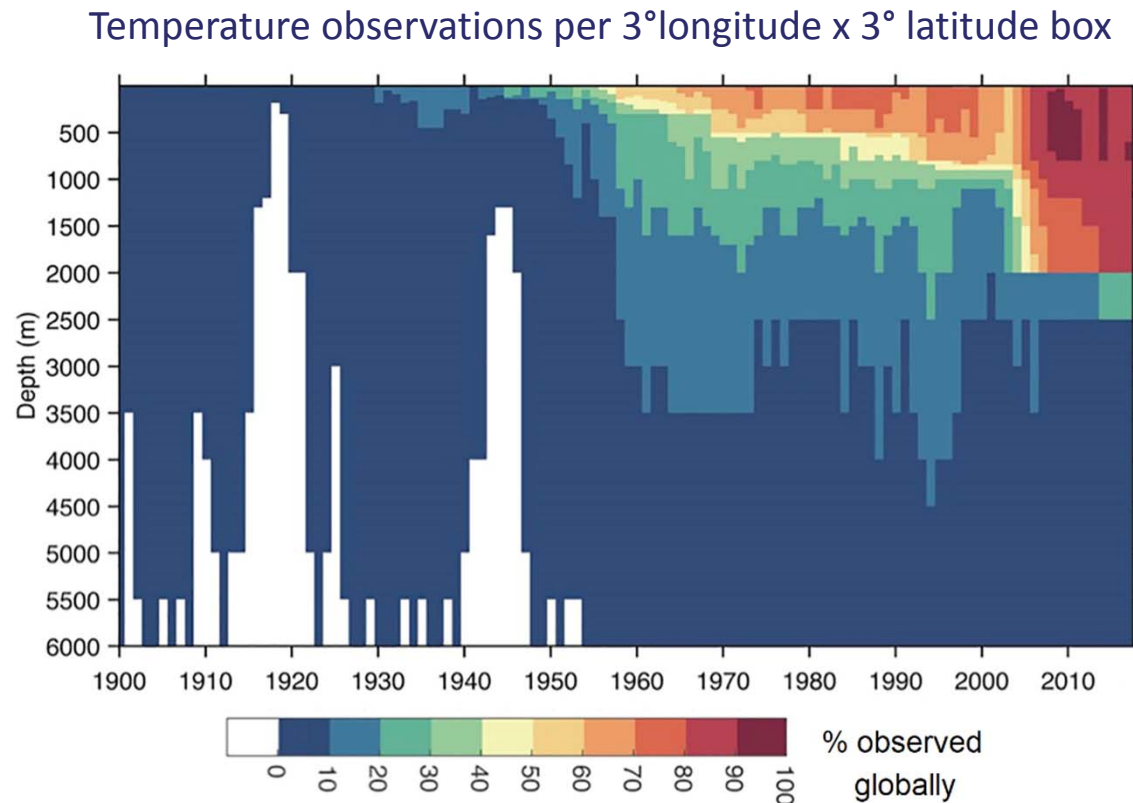


Global Climate Observing System Implementation Plan

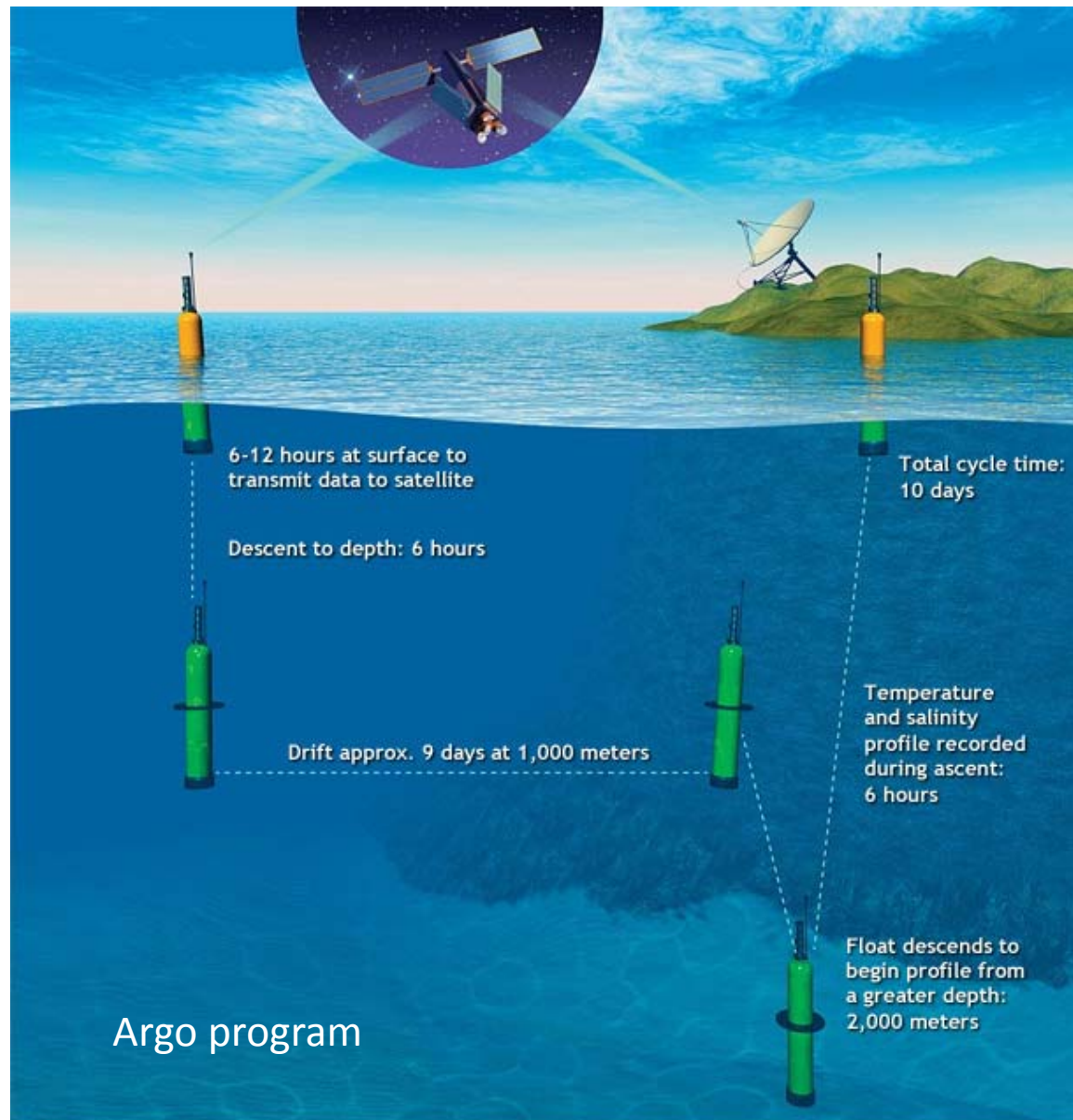
A multi-platform approach is needed to deliver to Essential Climate Variable at the required range of scales and accuracy.

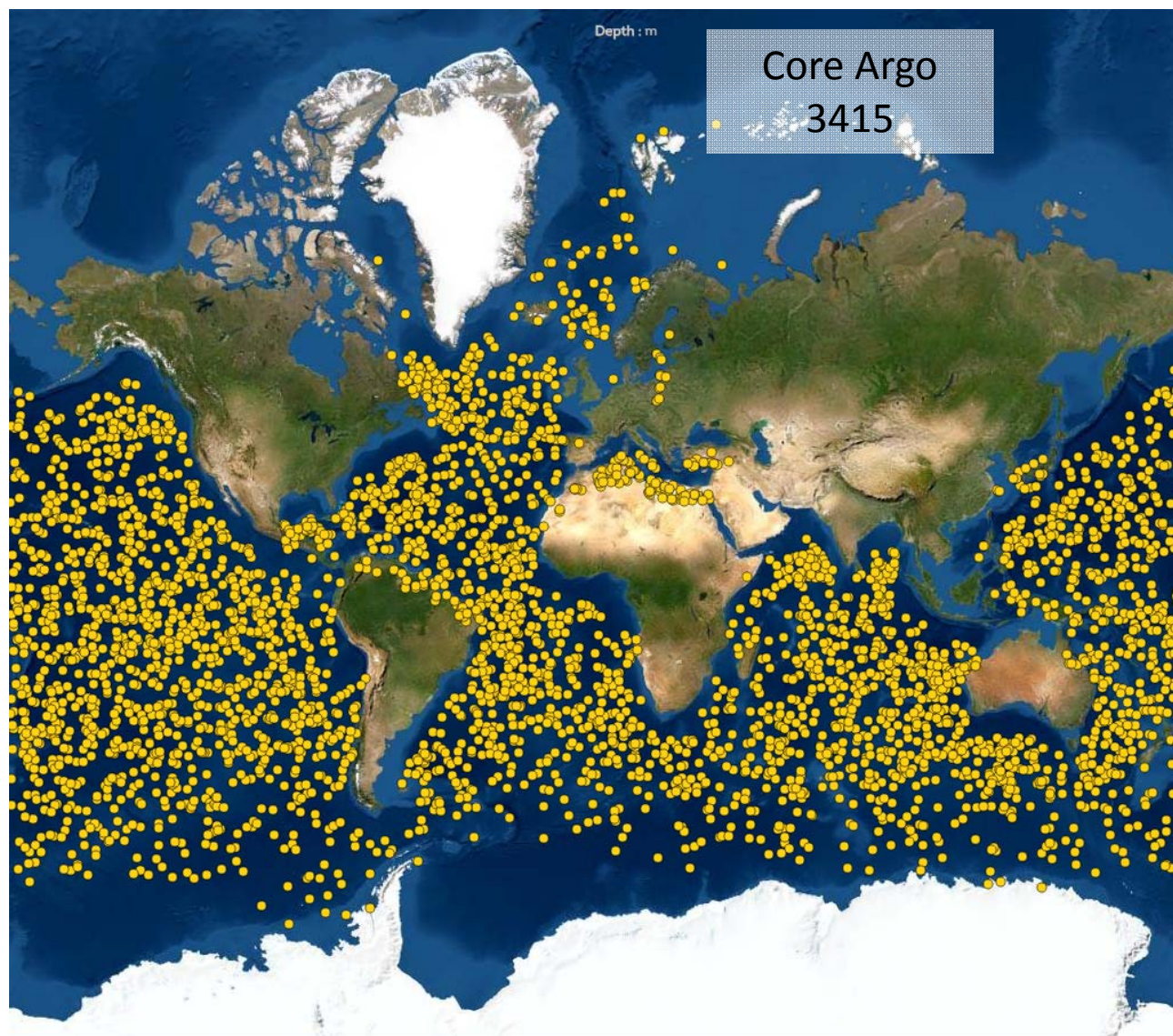


Increase in systematic observations through time

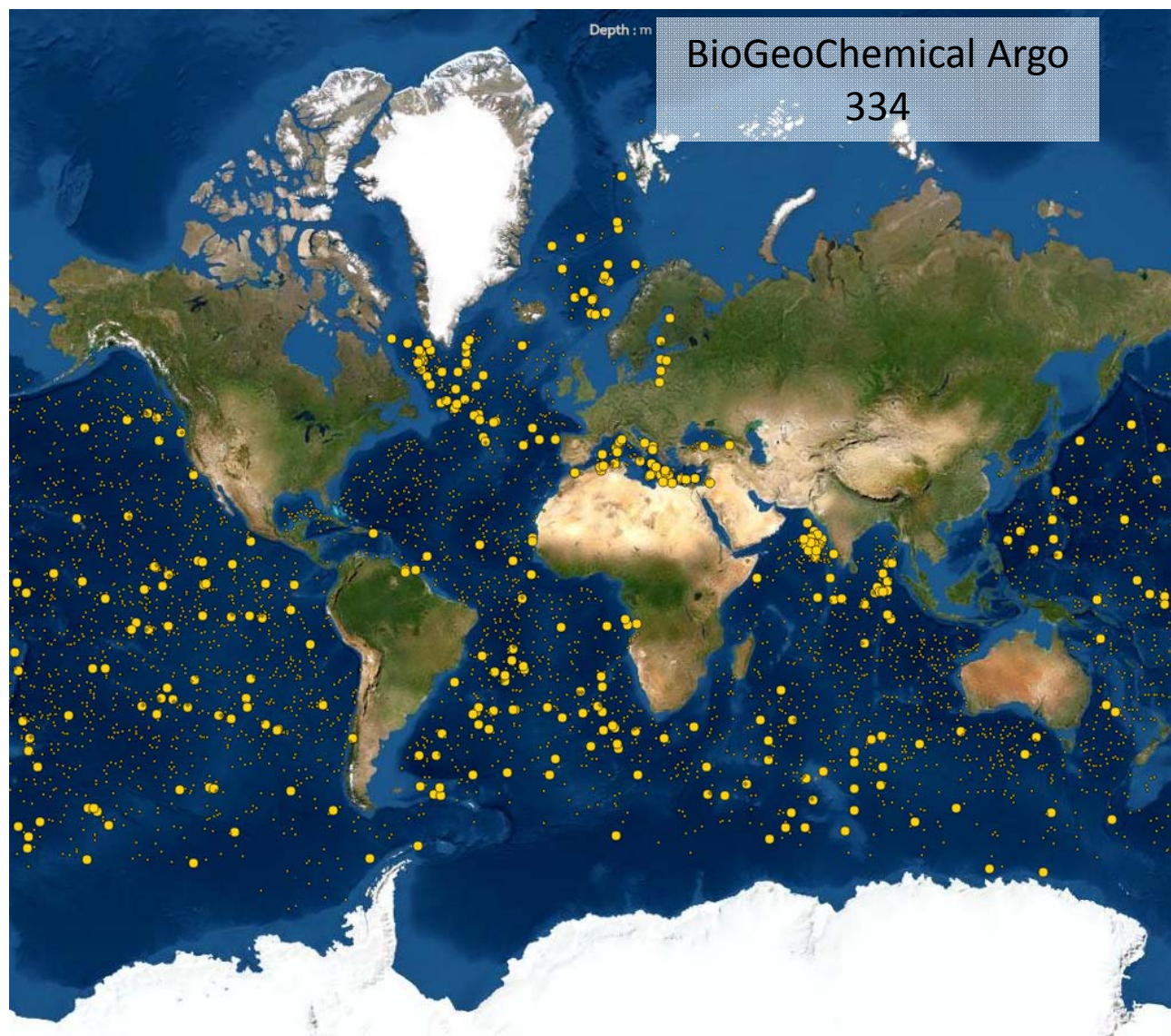


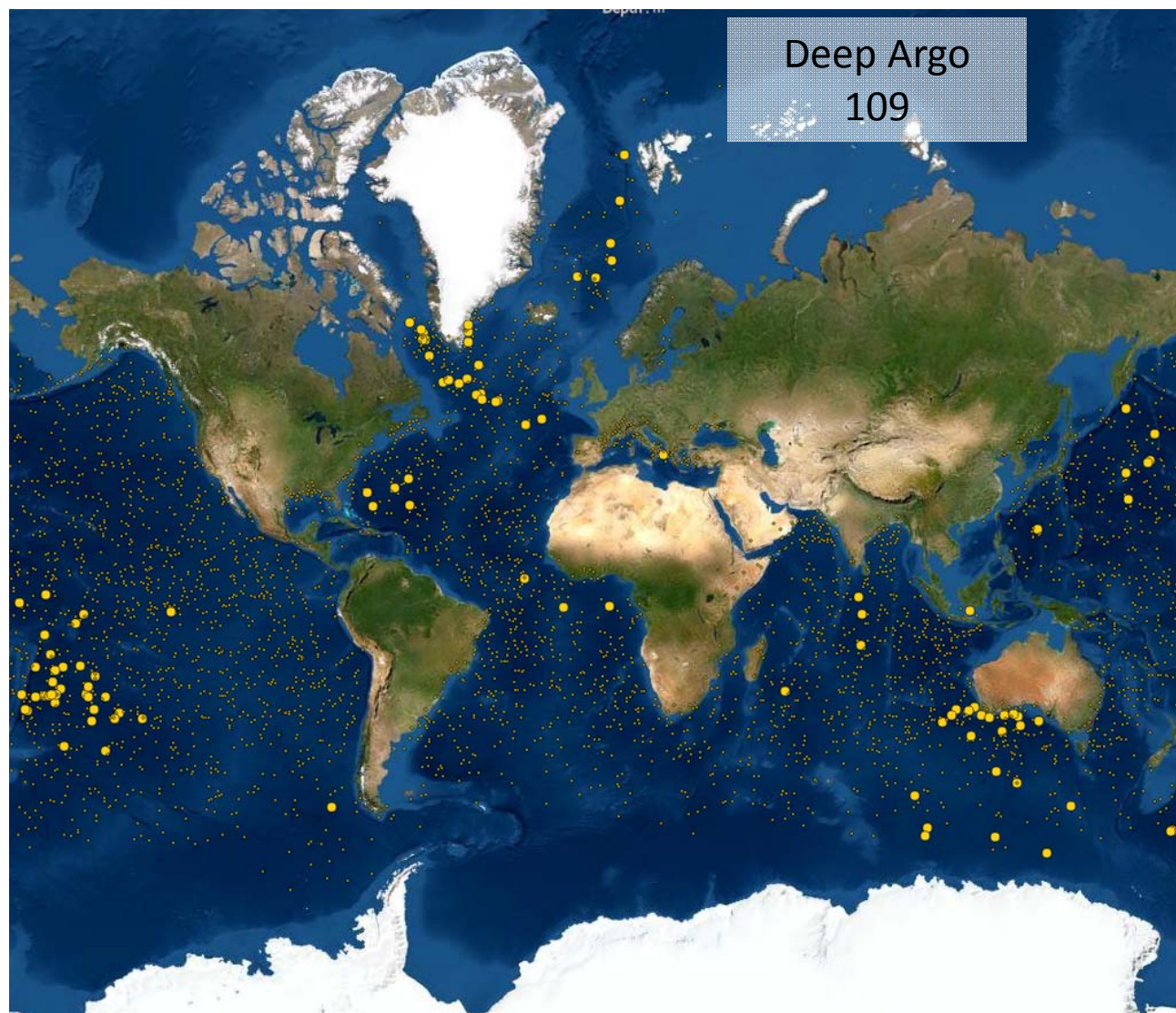
Meyssignac et al., 2019



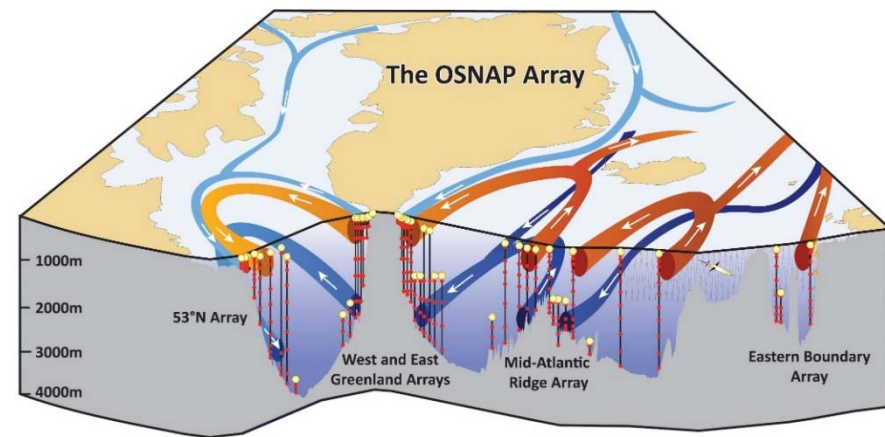
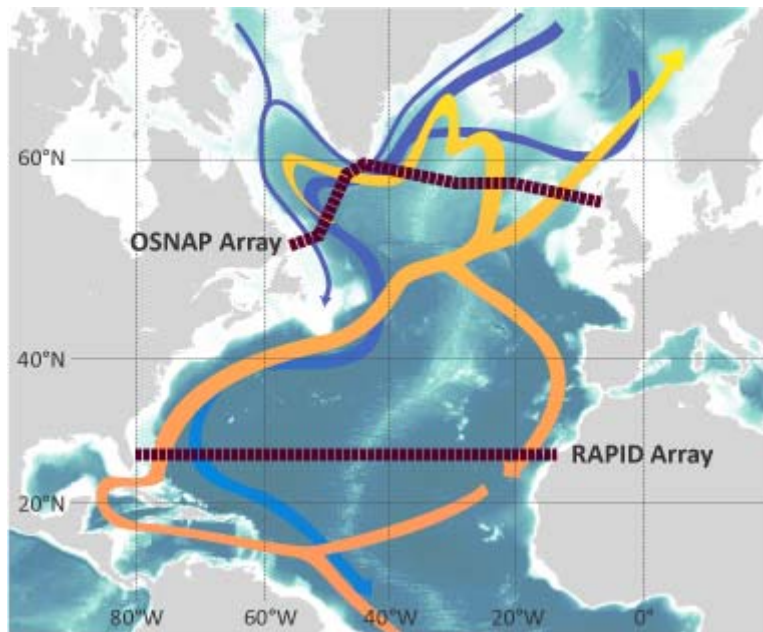


Temperature
Salinity



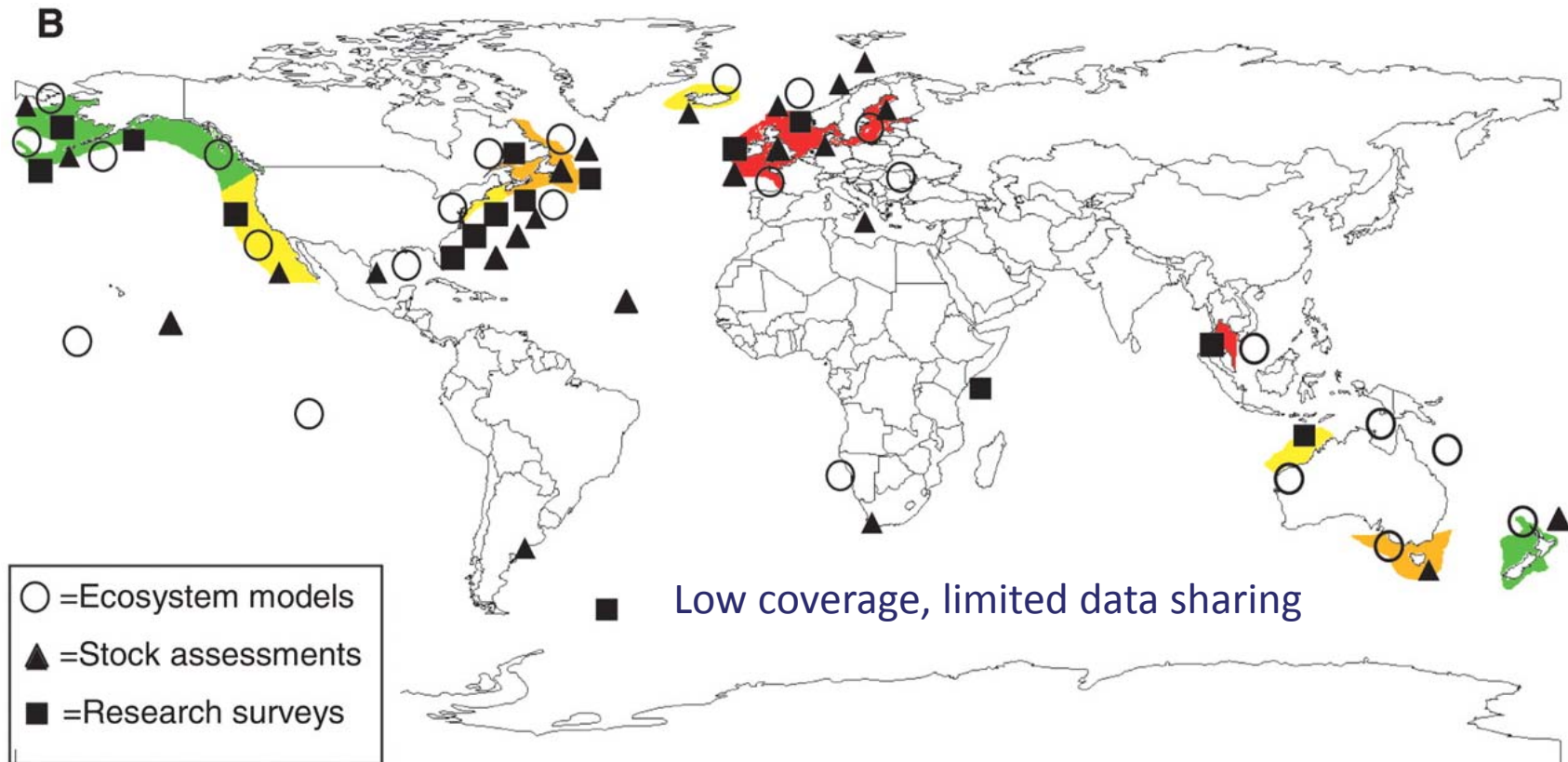


Basin-wide, full-depth measurements of circulation



Crucial for understanding and monitoring
Not real-time, not funded systematically

Spatial coverage of stock assessments



Color indicates fisheries intensity, from red (high exploitation rate) to green (not overfished)

Worm et al., 2009



Credit Glynn Gorick

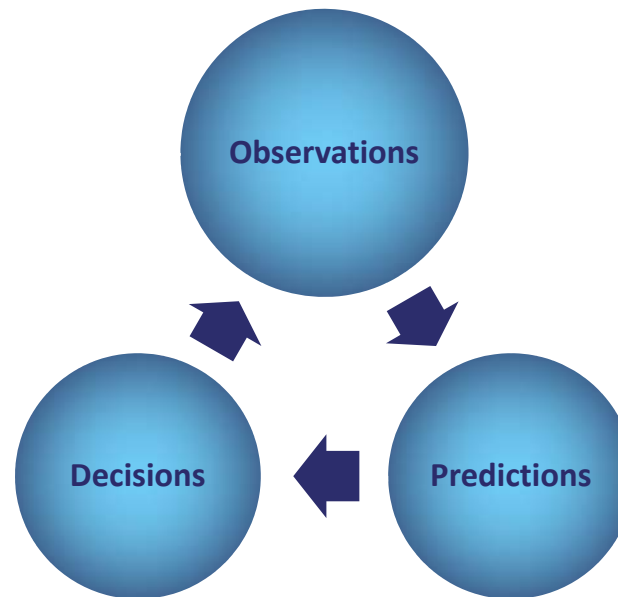




Long-term observations in the Atlantic Ocean are critical for understanding and accurate prediction of ocean and ecosystem changes

Existing, mostly physical, observations need to be maintained and expanded to include biogeochemical and ecosystem parameters

Observations needs to be harmonized and integrated into one systems accessible for the modelling community and decision makers





Science-Policy Discussion
in collaboration with the European Parliament's Intergroup on
Climate Change, Biodiversity and Sustainable Development

Thank you



@TRIATLASproject

@BG10BlueAction

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www.triatlas.w.uib.no

www.blue-action.eu

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