Meeting AMOC Observation Needs in a Changing Climate



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Labrador Sea Process Studies Linked to AMOC

Canadian researchers have been making observations in the winter dynamics of the Labrador Sea with a focus on the links between convection, restratification and gas exchange with the atmosphere. These studies have been conducted with a mix of platforms including ships, gliders and fixed moorings, including one mooring system -Seacycler- with a profiling instrument package. This work has led to new understanding of the processes regulating oxygen uptake and the links to convection. Interesting questions are raised linked to the OSNAP program results which show that the connection between convection and deep circulation is perhaps more subtle than previously considered. Much of this work was carried out through the research efforts of the Ocean Frontier Institute, that has now been refunded to support a program entitled Transforming Climate Action. In this talk, some results of the earlier work will be reviewed and presented, together with consideration of the technological advances - both in terms of sensors and platforms. Plans for the new program will also be offered together with consideration of opportunities for renewed and new collaboration.

Topic

Future AMOC observing -outlining a roadmap

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