

First Results from OSNAP: Overturning in the Subpolar North Atlantic Program

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An international effort, Overturning in the Subpolar North Atlantic Program (OSNAP), is a partnership among oceanographers from the US, UK, Germany, the Netherlands, Canada and China whose goal is to measure and understand what drives the Atlantic Meridional Overturning Circulation (AMOC) and its variability. OSNAP is consisted of 53 moorings that stretches from Labrador to Greenland to Scotland, provides a continuous record of the full water column, trans-basin fluxes of heat, mass and freshwater in the subpolar North Atlantic and has been operational since 2014. The first 21 months of data from OSNAP has been used to produce the first continuous time series of these variables across the full array as well as at each subsection. In addition to these time series, time mean estimates for all fluxes and attendant uncertainties will be presented, along with a discussion of subpolar overturning variability.