



Labrador Sea Water production and the strength of the Subpolar Gyre

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In the last decade saw substantial changes in the characteristic and the production rate of Labrador Sea Water. It is still an open question, whether these changes influence the strength of the subpolar gyre and the Atlantic meridional overturning circulation. Here we will present time series of the LSW formation rates inferred from changes in tracer inventories and time series of the baroclinic transport variability of the subpolar gyre, complemented by transport estimates calculated from four Inverted Echo Sounders, deployed parallel to the Midatlantic Ridge in August 2006.