

2004 Ocean Sciences Meeting  
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Cite abstracts as *Eos Trans. AGU*, 84(52),  
Ocean Sci. Meet. Suppl., Abstract xxxxx-xx, 2003

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HR: 1300h  
AN: **OS22E-03**  
TI: **Interannual to Seasonal Variability in the Circulation of the Subpolar North Atlantic Ocean as Observed in the ECCO OGCM**  
AU: \* **Harle, J**  
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AF: *Institut für Meereskunde der Universität Hamburg, Troplowitzstr. 7, III. OG., Hamburg, D-22529 Germany*  
AB: A global ocean model is examined to obtain an estimate and identify mechanisms of interannual and seasonal variability in the circulation of the Subpolar North Atlantic Ocean over the WOCE period 1992-2002. Variations in the curl of the wind stress are shown to modulate the meridional overturning circulation in the Subpolar North Atlantic Ocean. The short temporal variability, however, is set by fluctuations in the zonal wind and hence the Ekman transport. Over the model run there is a decrease in the horizontal circulation, the magnitude and trend of which are explained partly by the Sverdrup response to the wind field. Associated with these changes in circulation are longitudinal shifts in the position of the Subpolar front primarily in the Iceland Basin.  
DE: 4215 Climate and interannual variability (3309)  
DE: 4532 General circulation  
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MN: 2004 Ocean Sciences Meeting

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