

## **Move transport correlations with Nordic Seas overflows in models and observations in response to stochastic subpolar wind stress curl**

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According to Köller et al. (2010) we perform spectral analysis in a multi-decadal UVicESCM imulation. while in the original simulation the focus has been laid on the response of seaice melt to the breakdown of the subpolar gyre, we here look at the processes that link variations of the MOVE transport to those in the Nordic Seas overflow.

For pink noise wind stress forcing similar to that of NAO-variations, there exist three preferred frequency bands in the MOVE transport, with periods near 10, 20 and 100 years. Since observations do not allow resolution of these periods except for the first, we take data from a high-resolution North Atlantic model driven by the NCEP atmospheric reanalysis and compare the spectra and correlations in the 20y-band. Then the actual observational data are compared to the realistic model output over the time of observations.

**Theme 1 Poster**