

Recent and projected shifts from surface density compensation to warming, freshening and stronger stratification in the subpolar North Atlantic – Supplementary Information

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Figures

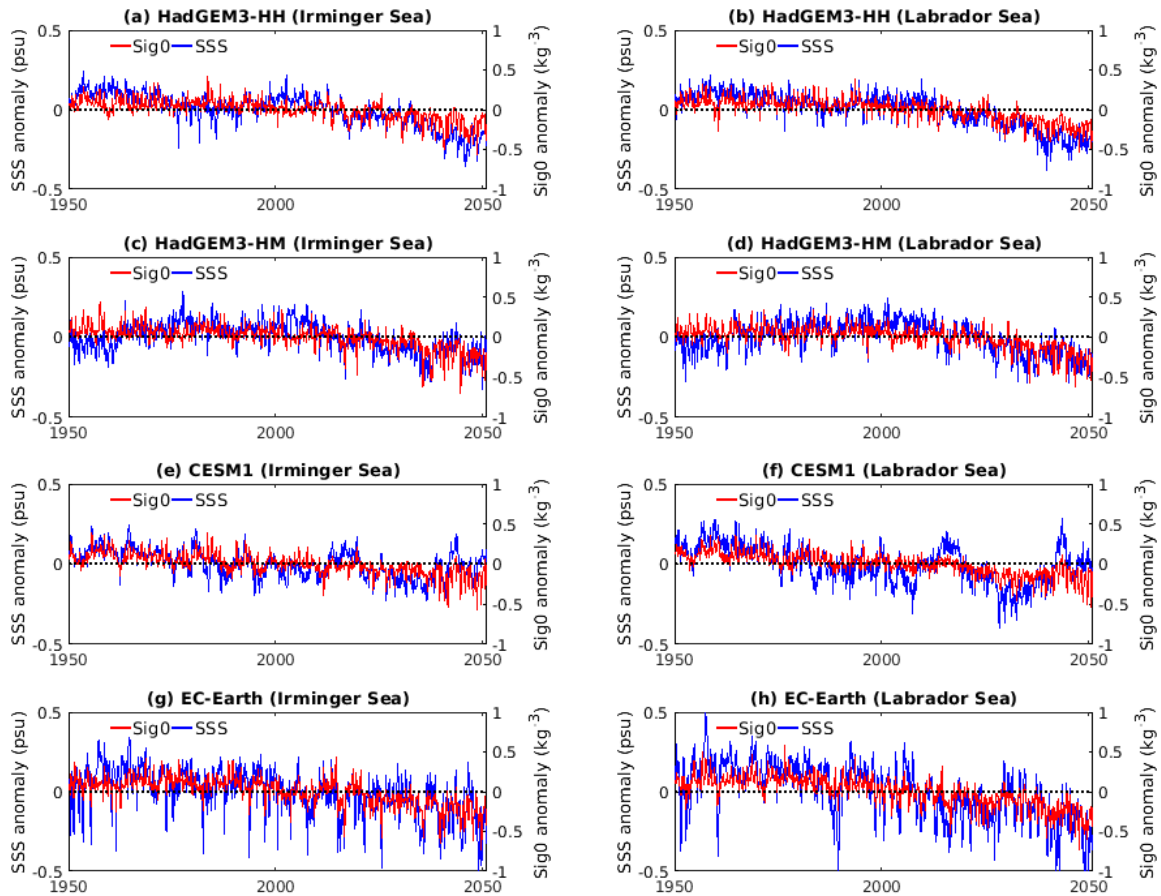


Figure S1. Time series of SSS and $\text{SS}\sigma_0$ anomalies averaged across the Irminger Sea (a,c,e,g) and Labrador Sea (b,d,f,h), in forced simulations with (a,b) HadGEM3-GC31 (HH), (c,d) HadGEM3-GC31 (HM), (e,f) CESM1-3 (HH), and (g,h) EC-Earth3P (HR).

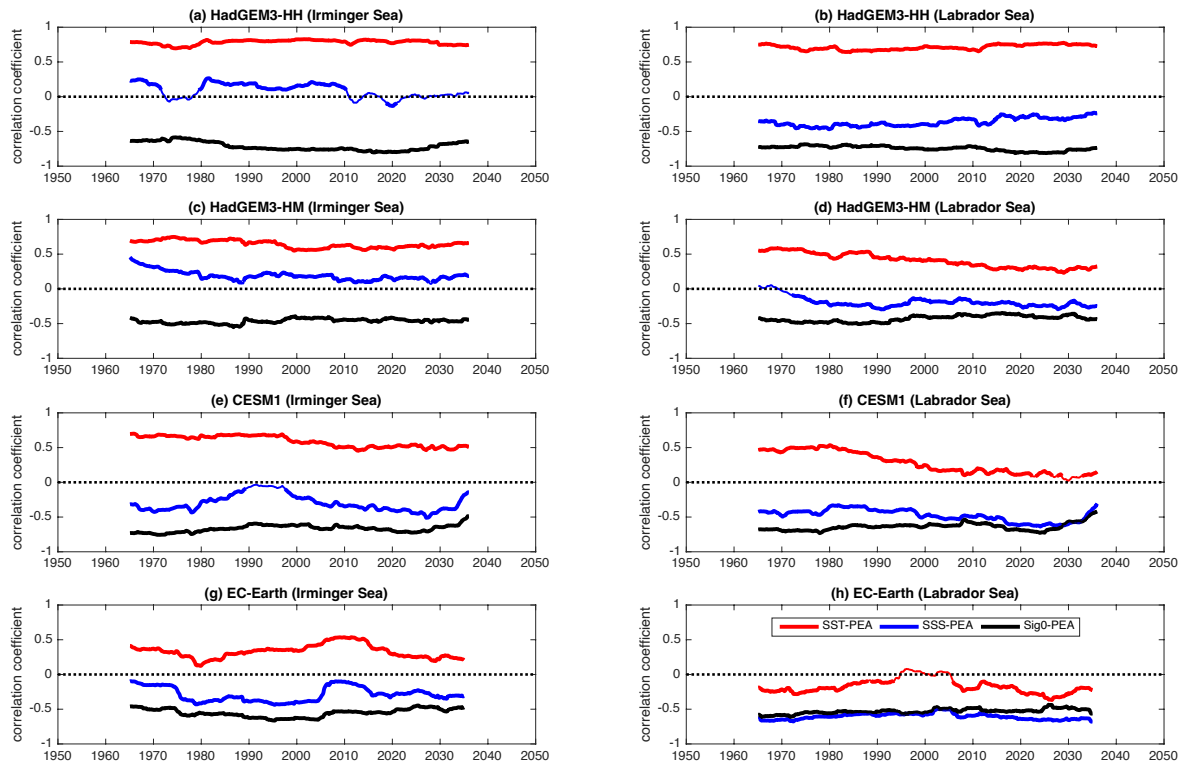


Figure S2. Rolling 30-year correlations of monthly PEA anomalies with SST, SSS and $SS\sigma_0$ anomalies, averaged across the Irminger Sea (a,c,e,g) and Labrador Sea (b,d,f,h), in control simulations with: (a,b) HadGEM3-GC31 (HH); (c,d) HadGEM3-GC31 (HM); (e,f) CESM1-3 (HH); (g,h) EC-Earth3P (HR).

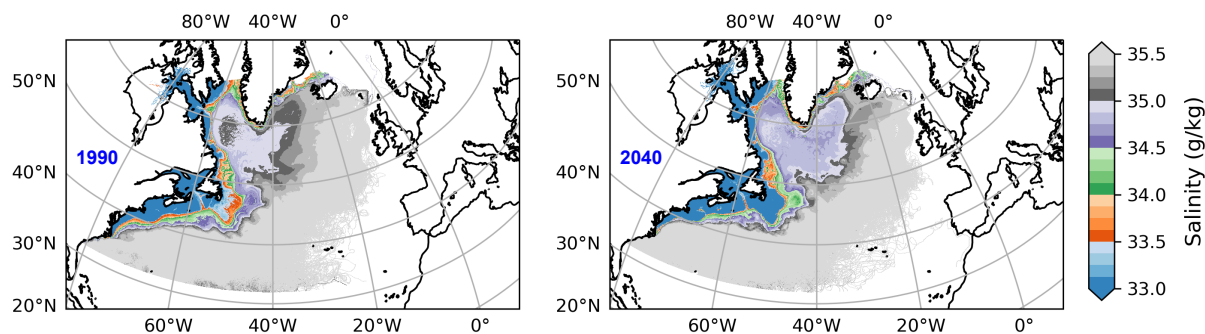


Figure S3. Mean parcel salinity, based on particles tracked backwards for 10 years in the forced experiment with HadGEM3-HH, sampling southward flows across a section east from Greenland across the Irminger Sea, monthly through 1990 (left panel) and 2040. (right panel).

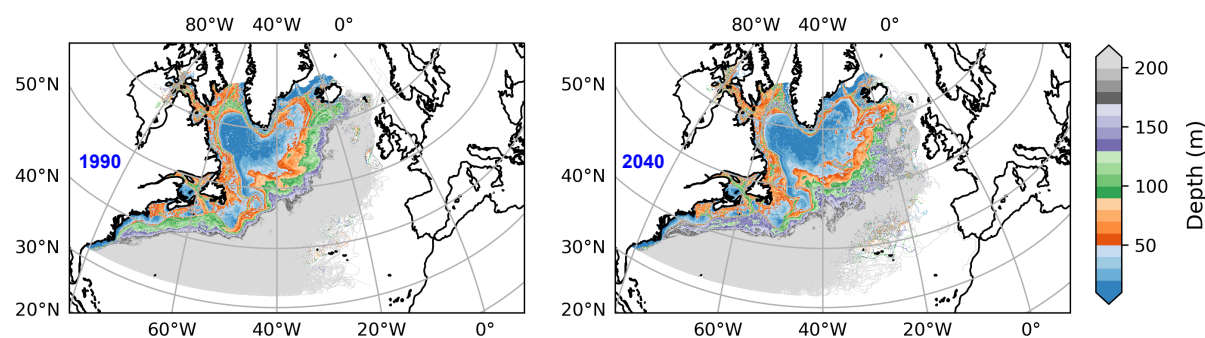


Figure S4. As Fig. S3, for depth.