

Supporting Information for ”AMOC and water-mass transformation in high- and low-resolution models: Climatology and variability”

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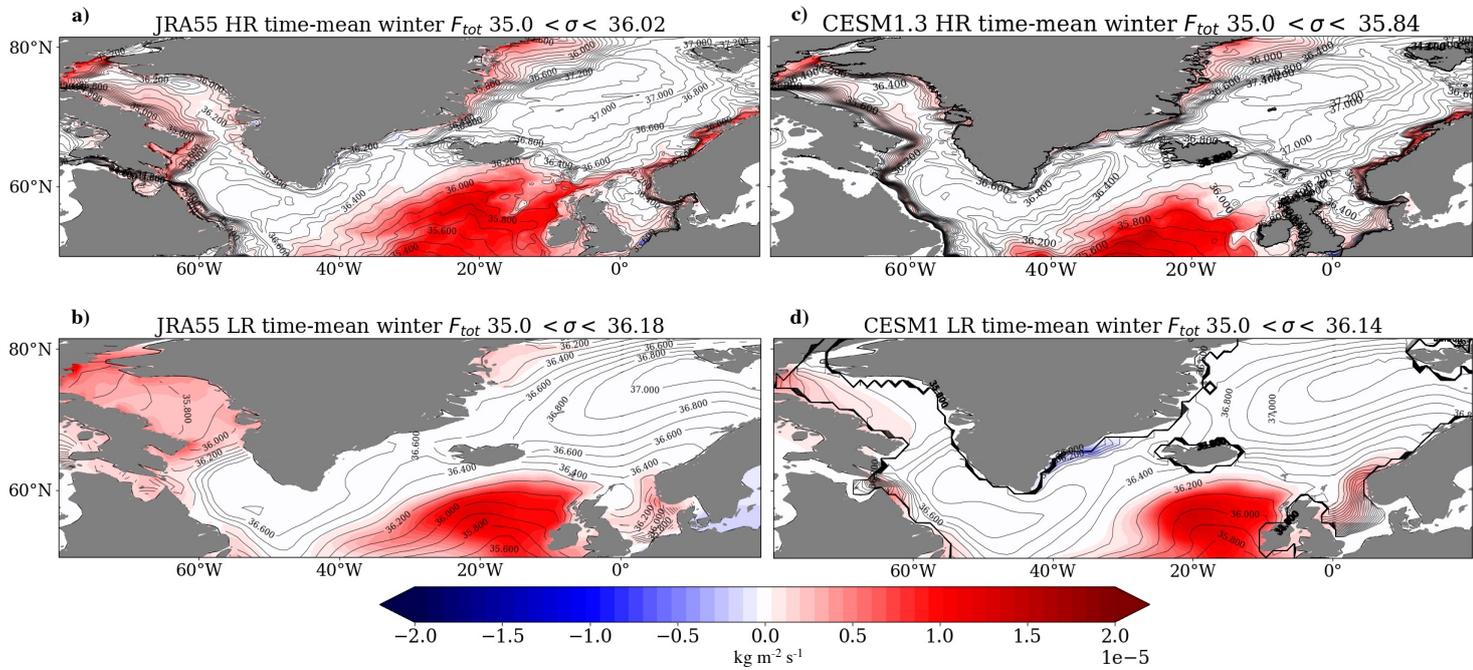


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Total freshwater flux climatology

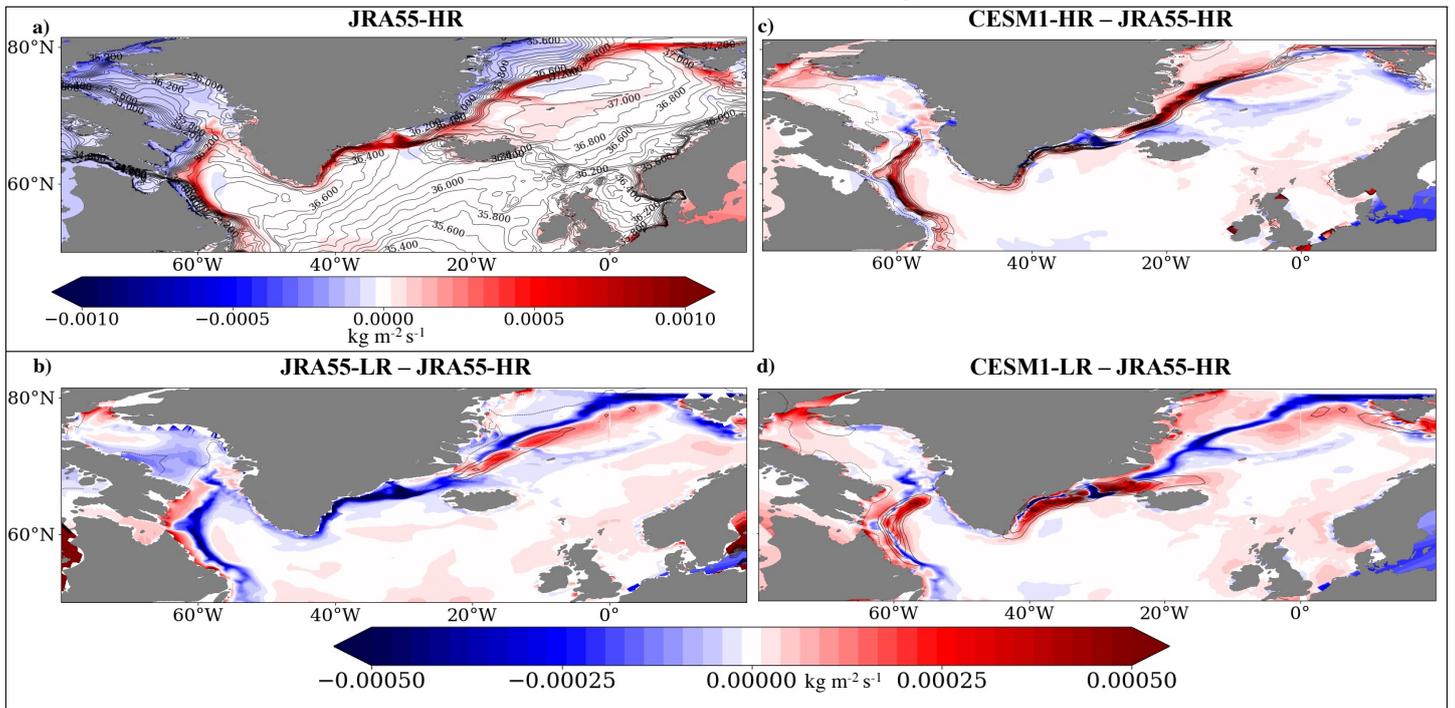


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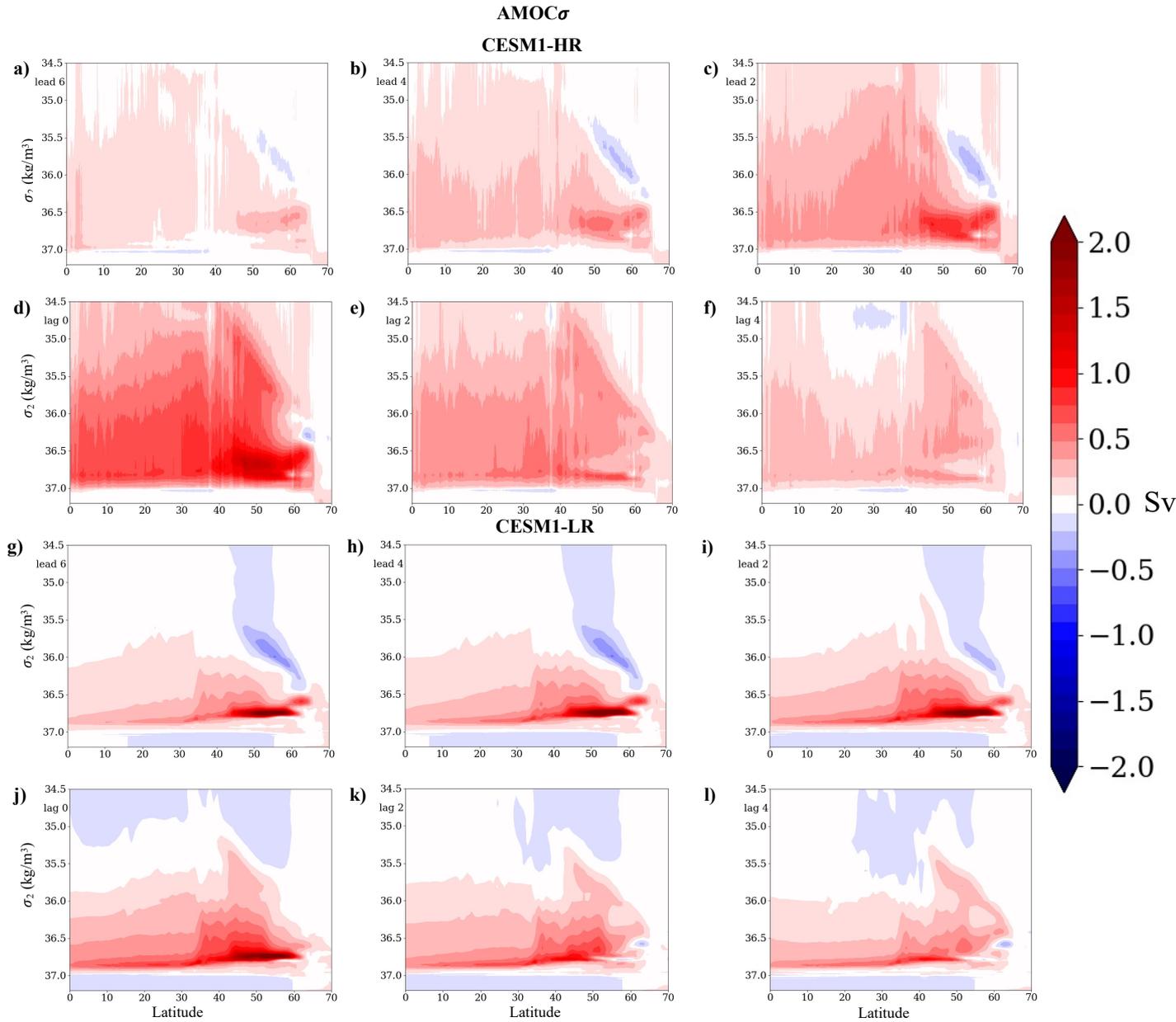


Figure S3. Lead-lag regressions of annual-mean AMOC in density coordinates onto the first LFC of AMOC σ for (a-f) CESM1-HR and (g-l) CESM1-LR. Lead times indicate anomalies that lead the LFC, i.e., prior to the time of maximum AMOC. Because the LFCs are unitless, the regressions simply have units of Sv.

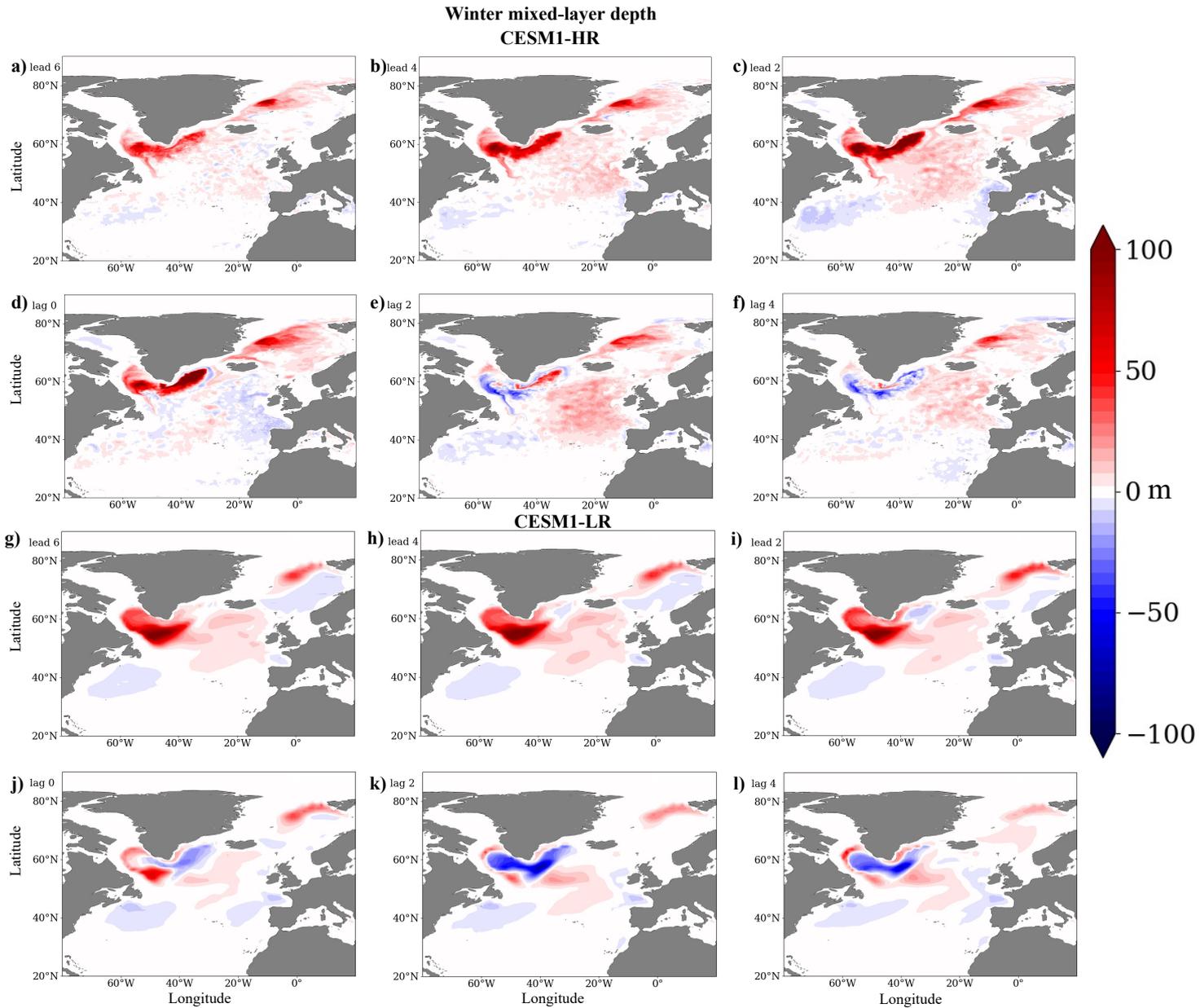


Figure S4. Lead-lag regressions of mixed-layer depth averaged over January, February and March onto the first LFC of $AMOC\sigma$ for (a-f) CESM1-HR and (g-l) CESM1-LR. Lead times indicate anomalies that lead the LFC, i.e., prior to the time of maximum AMOC. Because the LFCs are unitless, the regressions simply have units of m.