

## **Estimates of the seasonal variability of volume, heat, and freshwater fluxes in the eastern subpolar North Atlantic**

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Recently, glider missions have supplemented the long-established ship-based observations along the Extended Ellett Line (EEL) hydrographic section between Scotland and Iceland. The EEL hydrographic section is situated to capture a large fraction of the volume, heat, and freshwater fluxes associated with the upper limb of the AMOC. Due to the weather, ship-based observations have primarily been in the summer and gliders present a renewed opportunity to investigate the seasonal variability of volume, heat, and freshwater fluxes in the upper layer of the AMOC in the eastern subpolar North Atlantic. First, we describe the quality control of glider data relative to ship-based observations and the merging of glider observations into a database of ship-based observations. Then, we present our estimates for the seasonal variability of volume, heat, and freshwater transports in the eastern subpolar North Atlantic. Finally, we interpret these fluxes in light of the larger scale circulation.

**Theme 1 Poster**