

# Supplementary Material

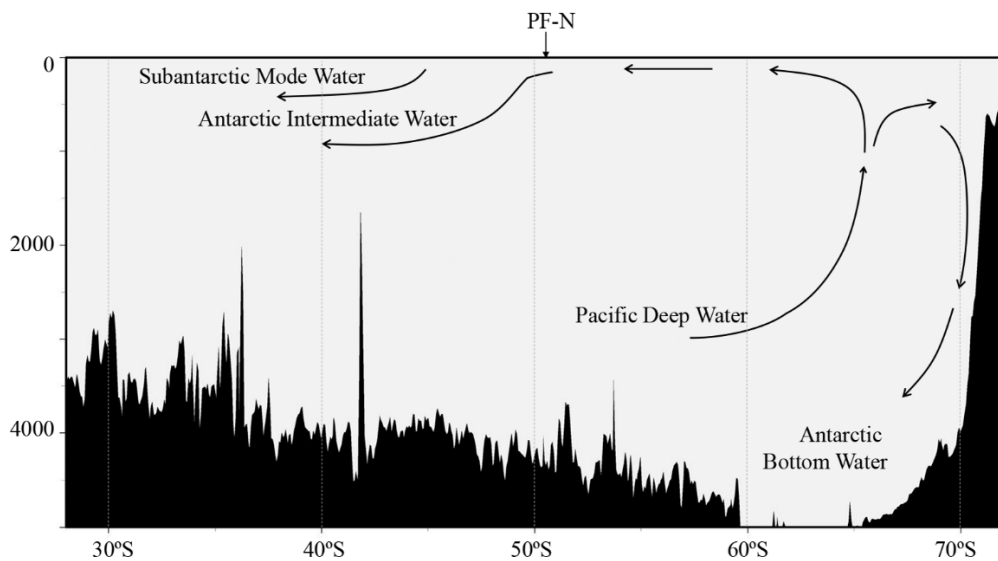


Figure S1. Large-scale overturning circulation and formation of major water masses in the Pacific sector of the Southern Ocean (derived from Talley et al., 2007 and Carter et al., 2022).

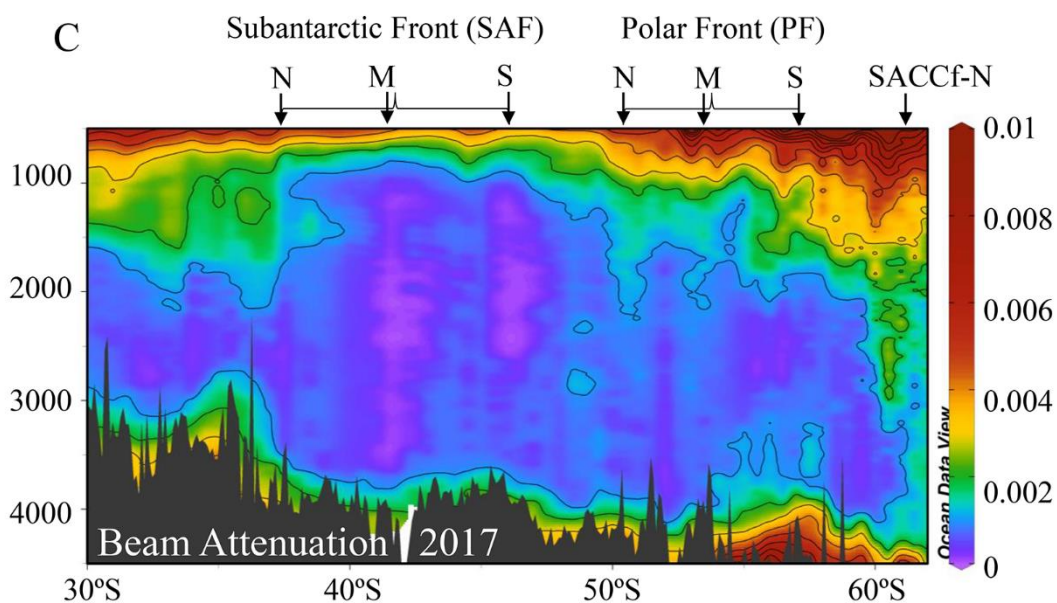


Figure S2. Beam attenuation distribution along P18 2017 transect [ $\text{m}^{-1}$ ]. Note non-linear color bar.