

Figure S 1: **SILLED cross sections.** Two sets of cross sections of temperature difference (ΔT , left) and salinity difference (ΔS , right) with respect to REF. Blue colors are colder/less saline conditions in the SILLED experiment, red colors warmer/more saline. The west–east sections are taken at 27.5°N and the south–north sections at 25°W .

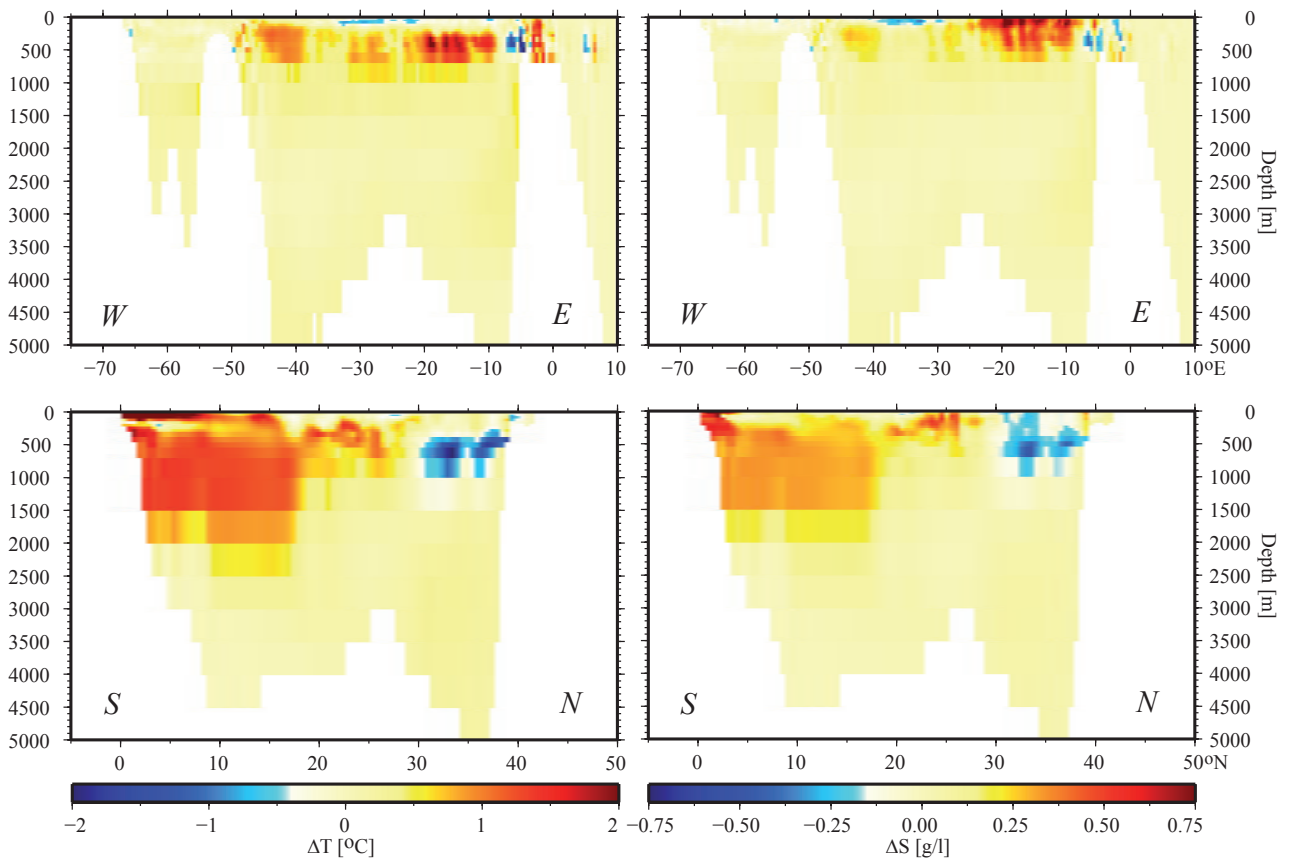


Figure S 2: **SATL cross sections.** Two sets of cross sections of temperature difference (ΔT , left) and salinity difference (ΔS , right) with respect to REF. Blue colors are colder/less saline conditions in the SATL experiment, red colors warmer/more saline. The west–east sections are taken at $27.5^\circ N$ and the south–north sections at $25^\circ W$.