Figure 1. Map of the eastern South Atlantic Ocean showing the position of the 107 full–depth stations surveyed during the WOCE A17 cruise.
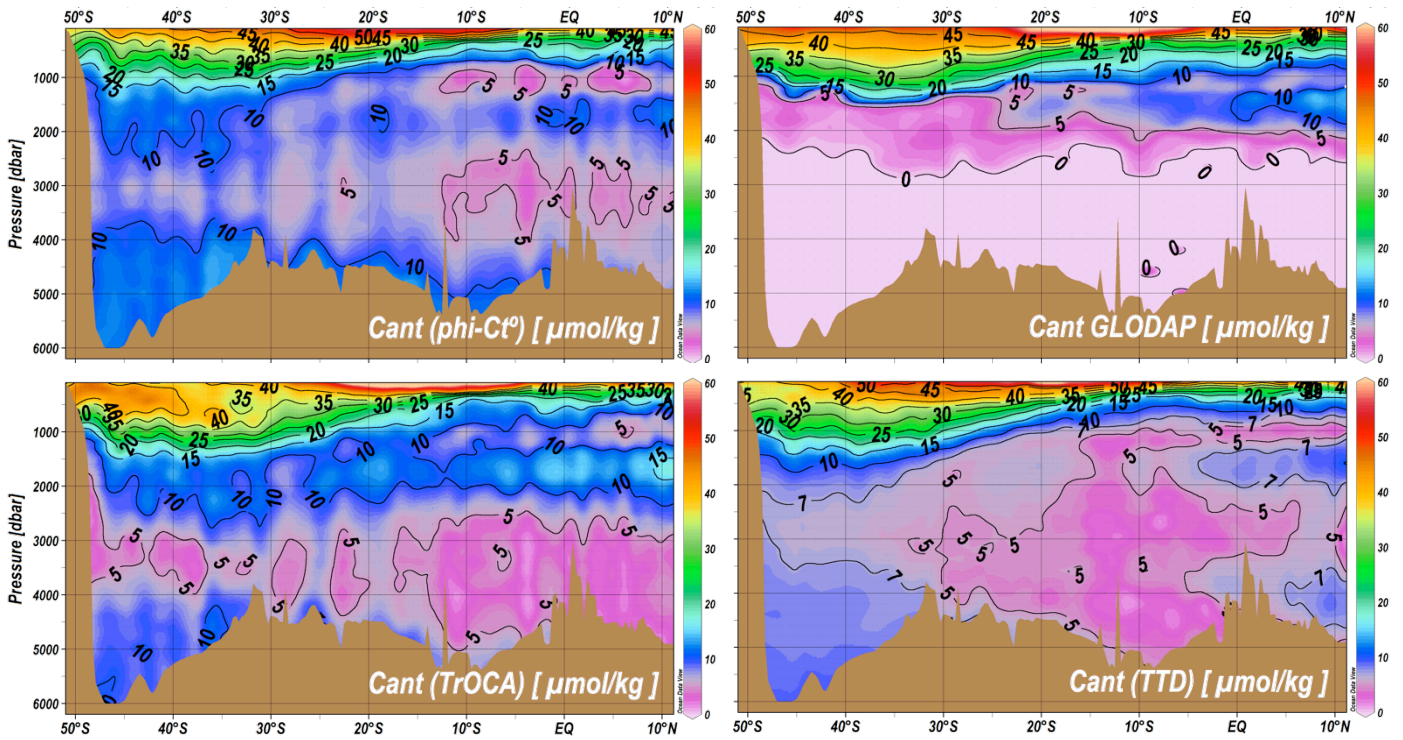
Figure 2. Vertical profiles of C_{ANT} along the WOCE A17 line according to four different estimation approaches: the φC_T^o, the ΔC^* (as in the GLODAP database), the TrOCA and the TTD methods. All concentrations are given in $\mu mol \cdot kg^{-1}$. The spots where negative C_{ANT} estimates were predicted by the ΔC^* method have been filled with a light purple color and are located below the zero isopleth at pressures> ~2700 dbar.
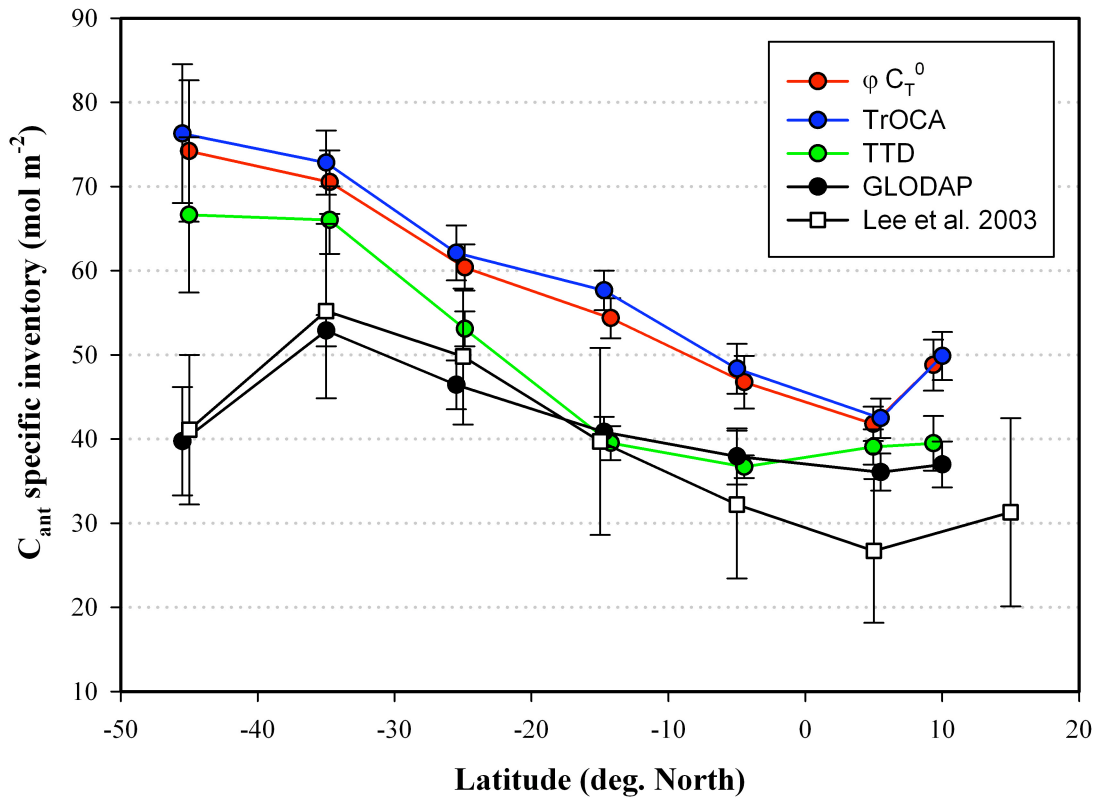
Figure 3. C_{ANT} specific inventories were estimated by vertical integration. The uncertainties of these estimates were calculated by means of random propagation with depth of a 5.2 μmol·kg^{-1} standard error of the C_{ANT} estimate over 100 perturbation iterations. Assuming that the uncertainties attached to the C_{ANT} estimation method are purely random and do not introduce biases, the final error is calculated by propagating the individual errors associated to the samples. They reflect both measurement and parameterization errors. For each of the considered latitude bands the mean of the integrated values at each station was calculated. The error bars here shown were computed as the confidence intervals of the mean.