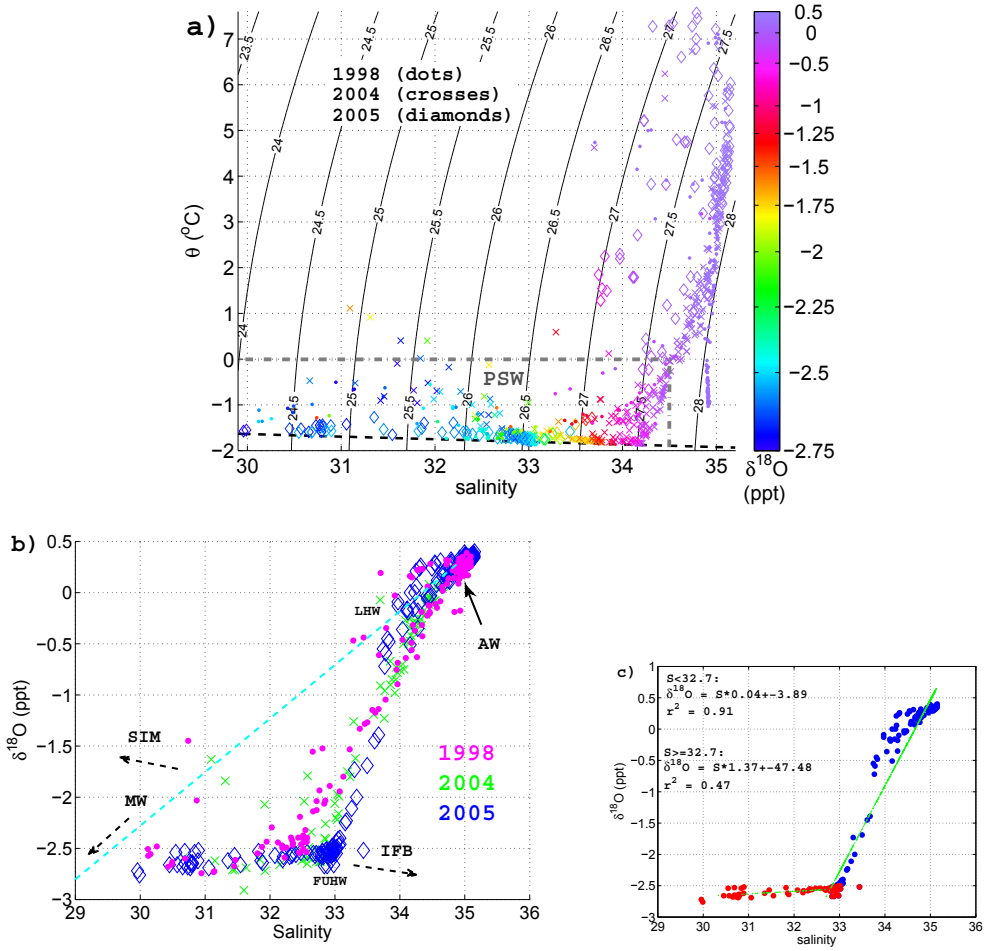

Fig. 2. **(a)** Potential temperature, θ, vs. salinity and δ_{18}O in color, with contours of potential density, σ_θ (kg/m^3), from our observations in 1998, 2004 and 2005. The dashed line shows the freezing temperature. **(b)** Salinity vs. δ^{18}O, where direct mixing between the MW and AW end-members would be along the cyan dashed line. The dashed arrows show the direction of S/δ^{18}O development during ice formation (IFB) and melting (SIM). For other abbreviations see text. **(c)** Piecewise linear regression of salinity and δ^{18}O in a longitude band of 1.5 to 12.5° W for pressures below 310 dbar (see text for details). The red and green colors represent the data leading to each of the two regressions. The reconstruction of the δ^{18}O values from salinity based on these regressions are represented by the green dots. Also shown are the regression equations and the square of the correlation coefficients (r^2).