2.10 Entropy

The specific entropy of seawater η is given by

$$\eta = \eta \left(S_{\mathcal{A}}, t, p \right) = -g_T = -\partial g / \partial T \Big|_{S_{\mathcal{A}}, p}. \tag{2.10.1}$$

When taking derivatives with respect to $in\ situ$ temperature, the symbol T will be used for temperature in order that these derivatives not be confused with time derivatives. Entropy η has units of J kg⁻¹ K⁻¹ in both the SIA and GSW computer libraries.