

**Errata - to Guide to best practices for ocean CO<sub>2</sub> measurements. 2007. PICES Special Publication. Dickson, A. G., Sabine, C. L. and Christian, J. R. (Eds.)**

**1. Chapter 5; Page 5, Section 3.1:** “4” in the 2nd to last term of equation (1) should be a superscript. The word “polynomial” should be “expression”

**2. SOP 3a; Page 5, equation (4):**  $\text{HPO}_4^{3-}$  should be  $\text{HPO}_4^{2-}$ , and  $\text{PO}_4^{2-}$  should be  $\text{PO}_4^{3-}$ .

**3. SOP 3b; Page 8, equation (13):**

$$A_T + \left( \frac{S_T}{1 + K_S Z / (f [\text{H}'])} \right) + \left( \frac{F_T}{1 + K_F Z / (f [\text{H}'])} \right) + \left( \frac{m_0 + m}{m_0} \right) \left( \frac{f [\text{H}']}{Z} \right) - \left( \frac{m}{m_0} \right) C = 0$$

should be

$$A_T + \left( \frac{S_T}{1 + K_S Z / (f [\text{H}'])} \right) + \left( \frac{F_T}{1 + K_F / (f [\text{H}'])} \right) + \left( \frac{m_0 + m}{m_0} \right) \left( \frac{f [\text{H}']}{Z} \right) - \left( \frac{m}{m_0} \right) C = 0$$

**4. SOP 3b; Page 9, line 1:**  $F_T$  is the total sulfate concentration should be  $F_T$  is the total fluoride concentration

**5. SOP 5; Page 8, equation (9):**  $f(\text{CO}_2)_{T_S, \text{wet}} = f(\text{CO}_2)_{T_E, \text{wet}} \cdot \exp[0.0423(T_S - T_E)]$

should be  $f(\text{CO}_2)_{T_S, \text{wet}} = f(\text{CO}_2)_{T_E, \text{wet}} \cdot \exp[0.0423(T_S - T_E)]$

**6. SOP 6a; typo in equation (4), it should be:**  $m_S = m_{35} \times \frac{27.5695S}{1000 - 1.0019S}$

**7. SOP 6b; typo in equation (7), it should be:**

$$\text{pH} = \text{p}K_2 + \log_{10} \left( \frac{A_1 / A_2 - \varepsilon_1(\text{HI}^-) / \varepsilon_2(\text{HI}^-)}{\varepsilon_1(\text{I}^{2-}) / \varepsilon_2(\text{HI}^-) - (A_1 / A_2) \varepsilon_2(\text{I}^{2-}) / \varepsilon_2(\text{HI}^-)} \right)$$

**8. SOP 7; Page 4:** Unnecessary extra trailing zeros were deleted from tabulated values of maximum standard deviation and CV.

**9. SOP 12; Page 3; Section 6.3.2:** The density of water used here should be 0.997535 not 0.997541 g cm<sup>-3</sup>.

**10. SOP 23; Page 3; Section 3.4, Case 2, Step 5: Should be** Compare  $\Delta = |\bar{x}_A - \bar{x}_B|$  with  $U$ .

**11. SOP 23; Page 6: First sentence of last paragraph should read:** The tabulated value of  $F$  (two-tailed,  $p=0.05$ )—with 11 degrees of freedom in the numerator and 8 degrees of freedom in the denominator—is 4.24.

**12. Chapter 5; Table 4:** Citation should be to Roy et al. (1993a, b), not Roy et al. (1993); **References:** Title of Roy et al., 1993b should be "The dissociation constants of carbonic acid in seawater at salinities 5 to 45 and temperatures 0 to 45°C."