Erratum

Erratum to 'Sorption of silicon on magnetite and other corrosion products of iron' [J. Nucl. Mater. 348 (2006) 60–69]

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Unfortunately, there was an error in Eq. (13) in the above paper. The correct formula is given by

$$m_{\text{magnetite}} = m_{\text{Fe}} \times \frac{M_{\text{magnetite}}}{3M_{\text{Fe}}} = 2963 \text{ kg}$$

Consequently, erroneous results were provided for Eqs. (14)–(16) and (18). The correct values are given below.

$$m_{\text{Si sorbed}} = 1.58 \text{ kg}$$

$$m_{\text{solubilized glass}} = 7.52 \text{ kg}$$

$$\text{total alteration thickness} = 1.58 \times 10^{-3} \text{ m}$$

$$t = 1215 \text{ years}$$

The conclusion concerning glass alteration remains unchanged: the period of time during which glass would be altered at its initial rate is small compared with the glass expected lifetime (300 000 years).

Acknowledgement