

Version of February 27th, 2018

**“Atmospheric Evolution on Inhabited and Lifeless Worlds”**  
by **David C. Catling and James F. Kasting, Cambridge University Press**

Changes and corrections

- p. 25** The attribution to Princeton University Press in the caption for Figure 1.13 should be for Figure 2.13 on **p. 48**, not for Figure 1.13.
- p. 64** In the second column, below eq. (2.128), “using the expressions in Table 2.4” should be “using the expressions in Table 2.3”.
- p. 69** For consistency, in the second column underneath eq. (2.141), the phrase “Values of  $\alpha_{\text{ref}}$  range from 0.1 to 1  $\text{cm}^{-1}$  in wavenumbers and we have used  $\alpha_{\text{ref}} = 0.07 \text{ cm}^{-1}$ ” should be “Values of  $\alpha_{\text{ref}}$  range from about 0.1 to 1  $\text{cm}^{-1}$  in wavenumbers and we have used  $\alpha_{\text{ref}} = 0.07 \text{ cm}^{-1}$ ”
- p. 79** Equation (3.41) should be labeled with reaction rate constant “( $k_2$ )” not “( $j_2$ )”. Also, equation (3.42) should be labeled with the photolysis rate coefficient “( $j_3$ )” and not “( $j_2$ )”.
- p. 98** The upper layer in the diagram of Figure 4.12, Layer 2, should be labeled as frictionless while the lower layer, Layer 1, should be labeled as having surface friction.
- p. 185** The caption to the horizontal axis of Figure 6.13 should read “Atomic mass” and not “Atomic number”.
- p. 189** The caption to Figure 6.15 has the attribution to the types of meteorite inadvertently swapped. Here is the correct caption, which is consistent with the text on the same page:  
“(a) Strongly reducing atmospheres of accretion, calculated assuming gas compositions in equilibrium with ordinary H-type chondrites at 100 bars. (b) Weakly reducing atmospheres of accretion, calculated assuming gas compositions in equilibrium with CI chondrites at 100 bar.”
- p. 239** In the second column, ammonium hydroxide should be  $\text{NH}_4\text{OH}$ , not  $\text{NH}_3\text{OH}$ .
- p. 258** In part (d) of the caption to Figure 10.1, it says (referring to arrow e) “this bound conflicts with arrow c”, but it should say “this bound conflicts with arrow d”.
- p. 448** First column, “similar to Earth’s oceans during the Archean (Ch. 12)” should be “similar to Earth’s oceans during the Archean (Ch. 10)”