

ERRATA

HOW TO BE A QUANTITATIVE ECOLOGIST: THE A-TO-R OF GREEN
MATHEMATICS AND STATISTICS (1ST EDITION, AS AT 29 NOV 2011)

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CHAPTER 0

CHAPTER 1

CHAPTER 2

Page 71: Legend in Figure 2.3 should say “...first and second iteration.”

Page 82: In Figure 2.20b, the symbol for the angle should be θ , not q .

Page 84: The $\frac{\theta^4}{4!}$ in the top part of eq.(2.22) should be the same size as all the other terms in the sum.

Pages 92-93 (Thanks to Michael Lewis): An algebraic error has been made in this example. The right hand side of Eq. (2.35) should have been $ld \cos \theta$, not $2ld \cos \theta$. This error carries through to the end of the example. So the following changes need to be made:

Equation...	Should be...
2.35	$(\triangle ADC) \quad d_1^2 = l^2 + \left(\frac{d}{2}\right)^2 - ld \cos \theta$
2.36	$(\triangle ADB) \quad d_2^2 = l^2 + \left(\frac{d}{2}\right)^2 - ld \cos(\pi - \theta)$
2.37	$d_1^2 - d_2^2 = -2ld \cos \theta$
2.38	$\cos \theta = \frac{d_2^2 - d_1^2}{2ld}$
2.39	$\cos \theta = \frac{d_2^2 - d_1^2}{d\sqrt{2d_2^2 + 2d_1^2 - d^2}}$
2.40	$\theta = \arccos \left(\frac{d_2^2 - d_1^2}{d\sqrt{2d_2^2 + 2d_1^2 - d^2}} \right)$

Page 94 (Thanks to Michael Lewis): Bullet-point 2, needs some clarification. Looking at the histogram, the peak value occurs at 3:00 during the first day and at 4:00 during the second day. However, there are also peaks at 24:00 and 23:00. Clearly there is some randomness in the data but the pattern implied by the entire histogram suggests a peak at about 2:00.

CHAPTER 3

Page 119, Figure 3.4: In some copies of the book the printing has missed out a plus sign in the subscript of population size. Hence, along the y-axis and in the expressions inside the graph, what appears as P_{t-1} should, instead, be P_{t+1} . The following figures are also affected by this misprint: Page 123, Figure 3.7- Page 124, Figure 3.8 - Page 124, Figure 3.9 - Page 127, Figure 3.10 - Page 127, Figure 3.11 - Page 128, Figure 3.12 - Page 128, Figure 3.13 - Page 129, Figure 3.14 - Page 130, Figure 3.15 - Page 134, Figure 3.19b.

CHAPTER 4

Page 145 (Thanks to Michael Lewis): The last line of Example 4.5, should read “...setting d to zero, $f(0) = 0.7$ (no need to use limits in this case)”.

CHAPTER 5

Page 186 (Thanks to Michael Lewis): The left hand side of eq. (5.44) should read

$$\frac{a_0x + b_0}{(a_1x + b_1)(a_2x + b_2)}$$

CHAPTER 6

Page 236: The third line of Example 6.22 should read “...matrix, we expect to find five eigenvalues.”

CHAPTER 7

CHAPTER 8

CHAPTER 9

Page 306 Figure 9.7: The numerical labels on the y-axis, ranging from 0 to 1, have not completely come through (so all but the topmost labels appear as 0.)

CHAPTER 10

CHAPTER 11

CHAPTER 12

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Command `seq()` first appears in page 52.