

Corrections to Marine Carbon Biogeochemistry by Jack J. Middelburg

Preface

p. v, line 9:

... biological relevant elements,...

should read

... **biologically** relevant elements,...

Chapter 1: Box 1.1 A simple mathematical model for reaction and transport

p.7, one-but-last-line:

...in the various process and....

should read

.. in the various **processes** and.....

Chapter 2: Primary Production: From Inorganic to Organic Carbon

p.18: Equations 2.11 and 2.12 contains typos and should read:

$$f_{lim}(E) = \left[1 - e^{\left(\frac{-\alpha E}{P_{max}}\right)} \right] \quad (2.11)$$

$$f_{lim}(E) = \left[1 - e^{\left(\frac{-\alpha E}{P_{max}}\right)} \right] \left[e^{\left(\frac{-\beta E}{P_{max}}\right)} \right] \quad (2.12)$$

p. 20, line 16-17:

Chl:C ratios vary from ~0.003 to ~0.055 (gC gChl⁻¹; Cloern et al., 1995)..

should read

Chl:C ratios vary from ~0.003 to ~0.055 (**gChl gC⁻¹**; Cloern et al., 1995)..

p. 20, line 17-18:

...dissolved organic carbon and suspended particulate waters...

should read

...dissolved organic carbon and suspended particulate **matter**...

p. 23, line 8:

... Monod relations with parameter K_E and K_N....

should read

... Monod relations with **parameters** K_E and K_N....

p. 29, line 2-4:

“Moreover, in turbid systems where the light attenuation (k_{PAR}), and thus z_{EU} (Fig. 2.7), are governed by suspended particulate matter dynamics, phytoplankton communities may experience variable twilight conditions and have difficulty maintaining positive growth.”

should read

“Moreover, in turbid systems where the light attenuation (k_{PAR}), and thus z_{EU} (**Fig. 2.6**), are governed by suspended particulate matter dynamics, phytoplankton communities may experience variable twilight conditions and have difficulty maintaining positive growth.”

Chapter 3: The Return from Organic to Inorganic Carbon

p. 46, bottom of the page:

“increasing velocity according to $wz = cz$ (c in d^{-1}) is”

should read

“increasing velocity according to $w_z = cz$ (c in d^{-1}) is”

Chapter 3: Box 3.2 Carbon consumption in the coastal zone

p. 52, line 1:

In coastal zone....

should read

In **the** coastal zone....

p. 54, line 10:

..often show secondary production..

should read

..often show **high** secondary production..

Chapter 4: Organic carbon degradation in sediments

p. 60, line 6 from bottom:

...decline stronglywith water depth....

should read

...decline **strongly with** water depth....

Chapter 5: Biogeochemical processes and Inorganic Carbon Dynamics

p. 80, line 13:

...among species is known

should read

..among species **are** known.

Chapter 6: Organic matter is more than CH₂O

p. 114, line 3:

.. the marine environments...

should read

.. the marine **environment**...



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