Corrigendum

Global Warming Science: A Quantitative Introduction to Climate Change and Its Consequences

Updated: Saturday 13th August, 2022, 11:13

• Page 17, the last sentence of section 2.1.2: “greenhouses gases” should be “greenhouse gases”.

• Page 26, Box 2.1, gas constant on RHS of Clausius-Clapeyron equation is that for water vapor, $R_v$, so that the displayed equation should read

\[
\frac{1}{e^*(T)} \frac{de^*(T)}{dT} = \frac{L}{R_v T^2} \equiv \alpha_{cc}(T),
\]

• Page 26, Box 2.1, after displayed equation, units of $L$ are kJ K$^{-1}$ kg$^{-1}$, so that the sentence should read,

where $L \approx 2250$ kJ K$^{-1}$ kg$^{-1}$ is the (temperature-dependent) latent heat of vaporization . . .

• Page 36, after equation 3.2, $\Delta F$ should be $\Delta F_{\text{now}}$, so the sentence should read

\[
\ldots \text{while the radiative forcings at present and for a doubling of } \text{CO}_2 (\Delta F_{\text{now}}, \Delta F_\times 2) \text{ can be estimated reliably from radiation models.}
\]

• Page 85, $+ [\text{OH}^-]$ is missing on the first line of the RHS of equation 5.9 so that the full equation should read:

\[
\text{Alk} \equiv [\text{HCO}_3^-] + 2 [\text{CO}_2^-] + [\text{HBO}_3^-] + [\text{OH}^-] - [\text{H}^+] \\
= [\text{Na}^+] + [\text{K}^+] + 2 [\text{Mg}^{2+}] + 2 [\text{Ca}^{2+}] - [\text{Cl}^-] \\
- 2 [\text{SO}_4^{2-}] - [\text{NO}_3^-].
\]

• Page 147, El Niño, La Niña box 8.1, after the graphics: “fisherman” should be “fishermen”.

• Page 224, second sentence in section 12.6: “utmost important” should be “utmost importance”.