Corrections to be made to "Global Physical Climatology" by D.L. Hartmann.

- Page 26: Equation at top of page in Example: Change -34°F to 0°F.
- Page 39, Problem 7: Add this sentence at the end of the problem. "You may assume that Earth's orbit is circular and ignore absorption of solar radiation by the atmosphere." Or if a more brief addition is required "Ignore eccentricity and atmospheric absorption."
- Page 47, Fig. 3.3, Replace with updated one. v_1 symmetric is missing an atom in triatomic structures.
- Page 58, Change equation (3.33) to,

$$\mu \frac{d}{d\tau_{V}} \left\{ I_{V}(\tau_{V}(z), \theta) e^{\left\{\tau_{V}(z)/\mu\right\}} \right\} = B_{V}(T(\tau_{V}(z))) e^{\left\{\tau_{V}(z)/\mu\right\}}$$

- Page 80, Problem 6: Add the following sentence at the end of this problem "How do the required convective fluxes change as you move the top level?"
- Page 114, Problem 3, last line: Remove s⁻¹ unit from C_D . That is, change " $C_D = 2 \times 10^{-3} \text{ s}^{-1}$ " to " $C_D = 2 \times 10^{-3}$ ".
- Page 120, last sentence of first full paragraph: Change the sentence beginning "About 60% of the precipitation that falls . . . " to "The evaporation from a continent is typically 60% of the precipitation on that continent."
- Page 169, Problem 6: Change "Fig. 2.10" to "Fig. 2.11a".
- Page 201, the second line of the equation on this page: Change 3.2 PW s⁻¹" to "3.2 petaWatts"
- Page 221, Fig. 8.10: Make sure the figure is printed and not blank.
- Page 228, Problem 6: Change "5000 years" to "500 years".
- Page 228, Problem 7: Change " $2 \times 10^{11} kg s^{-1}$ " to " $2 \times 10^{10} kg s^{-1}$ ".
- Page 228, Problem 8: Change "... over this period would be equal to the rate of deep water formation in the north Atlantic?" to "... over this period would decrease the salinity by 2%?".
- Page 242, first line of text: Change "increases with latitude" to "decreases with latitude".
- Page 284, problems 1: Change units of k_1 from " $Wm^{-2}K^{-1}$ " to " $Wm^{-1}K^{-1}$ ".
- Page 284, problems 2: Change units of k_s from " $Wm^{-2}K^{-1}$ " to " $Wm^{-1}K^{-1}$ ".
- Page 293, Table 11.1: In second line of table lable, change "Sources of Aerosols by Mass" to "Sources of Aerosols by Mass (Tg yr⁻¹)" The table needs units.

Page 303, Figure 11.9: Replace Fig. 11.9 with corrected one.

Page 307, number 2, Obliquity, 4th line: Change 15% to 10%.

Page 318, problem 4, Change "Fig. 11.9" to "Fig. 11.10".

Page 324, 12.2.2 Halocarbons, line5: Change "The reasons for the strong greenhouse . . " to "The reason for the strong greenhouse . . ." i.e. make reason singular.

Page 337, equation 12.4: Change "dt" to" dt" at end of equation. Needs to be primed variable of integration.

Page 345, problem 5, lines 4-5: Change " $Q_t = 4 \text{ Wm}^{-2} 50 \text{ years}^{-1}$ " to " $Q_t = 4 \text{ Wm}^{-2} \text{ in } 50$ " vears "

Page 349, equation (A.7): Change summation from n=0 to 3, to n=0 to 2.

Page 375. Answer to problem 2, chapter 5: Change units to mm day⁻¹. 2. (a) 1.1 mm day⁻¹; (b) 0.28 mm day⁻¹; (c) 7.8 mm day⁻¹; (d) 1.67 mm day⁻¹.

Page 376: Answers to Selected Exercises:

Chapter 8, Number 7: Change to "From 35 to 34%".

Chapter 10, Number 1 (a): Change to "(a) $T_s = -2$ °C, $SH = 180Wm^{-2}$ "

Chapter 10, Number 3: Change to "(a) 9m; (b) 4.5m" Chapter 11, Number 4: Change to "The difference is about 110 Wm⁻² or 23%, with a larger contribution from precession(~16%) than from obliquity(~7%)."

Page 376, Add answer to Chapter 12, Number 4: New line "4. (a) $\varepsilon = 10^{-4}$; (b) 276 K.

For those with the second edition, there are two small corrections on p. 375:

Chapter 5

- 1. 69 years; 1952 years
- 2. The units should be cm/day and not mm/day. [or the answer should be as noted above]