## Errata for 'Essentials of Atmospheric and Oceanic Dynamics' by G K. Vallis

Below are various errata and a few clarifications for the book 'Essentials of Atmospheric and Oceanic Dynamics'. If you find more please email me at g.vallis@exeter.ac.uk. I am grateful to many readers for their comments, especially Tim Dowling for his careful reading.

- **p. 15, (1.50):** Strictly speaking  $c_v$  and  $c_p$  may vary with temperature, even in an ideal gas. Here they are treated as constant. That is generally appropriate for Earth, but might not be for other planetary atmospheres.
- p. 35, below (2.51):  $g/kg^{-1} \rightarrow g/kg$  and  $m s^{-2} kg^{-1} \rightarrow m s^2 kg^{-1}$ .
- **p. 40:** "geostrophic relations" are not defined at that point. Don't worry, they come in Chapter 3.
- p. 41: (2.79): -p/RT > -RT/p
- p. 62: Exercise 3.2 is the same as Exercise 2.10 on page 46.
- **p. 64:** Caption to Fig 4.1: "The quantity  $\eta_B$ "  $\rightarrow$  "The quantity  $\eta_T$ ".
- **p.** 79: For clarity, on the first line,  $\sqrt{gH} = 1$  is in the nondimensional units described in the caption for Fig. 4.8
- p. 110: (6.20)  $q'(x, y, t) \rightarrow q'(x, y, z, t)$ , (to be consistent with  $\psi'(x, y, z, t)$  in the same line.
- **p.** 136:  $(7.45c) u' \rightarrow b'$ , but the subsequent equations are not affected.