

ATMS 545 Course Notes Errata

Chapter 1

p. 8 (1) under adiabatic **and frictionless** flow

in eq. (5) on p. 9 the environmental lapse rate Γ should have an overbar.

on p. 10, the units of both A and K should be J m^{-2} ; i.e., joules per square meter

on p. 13, eq. (9) The terms in parentheses should be reversed; i.e., it should read $\Gamma_d - \Gamma$ so that the sign is positive if the stratification is stable

p. 13, Eq. 10: dT/dt should be written with partial derivatives

on p. 13 the character that is blacked out is ϖ .

p. 14, last two lines: should read “Combining (1.8) and (1.13)....”

Chapter 2

p. 2 last line of longest paragraph: change *vertical* to *zonal*

equation before (2.2) change p_0 on upper limit of integral to $[p_s]$

p. 2, eq. (2.3): delete the dp in the first term

p. 15, bottom paragraph: change “contrary to” to “consistent with” and delete the footnote. The eddy flux of westerly momentum is upward. That’s consistent with what we know about the structure of baroclinic waves. But the balance requirements require a downward transport.