

Atmospheric Convection

PHYS 536

Fall 2015

Problem Assignment # 5

due 11-18-15

1. Emanuel problems 8.3, 8.4
2. Based on your reading of section 10.4.
 - (a) Describe some of the considerations and challenges of parameterizing cloud microphysics.
 - (b) Do cloud models do a good a good job with cloud parameterizations? If so, what is the evidence of success? If not, what is the evidence of failure?
3. Based on your reading of section 10.5. Describe the important considerations for each of the following boundary conditions:
 - (a) lower
 - (b) lateral
 - (c) upper