

AS200B Introduction to the Dynamics of the Earth System

Fall 2013

Prof. Alex Hall (alexhall@atmos.ucla.edu)

Monday 9/30 Lecture 1: Introduction to the Earth System (Hartmann, 1)

Wednesday 10/2 Lecture 1 (cont.)

Monday 10/7 Lecture 2: Planetary Energy Balance (Hartmann, 2)

Wednesday 10/9 Lecture 3: Radiation, Clouds, and Convection (Hartmann, 3)

Monday 10/14 Lecture 4: Surface Processes (Hartmann, 4)

Wednesday 10/16 Lecture 5: Atmospheric Circulation (Hartmann, 6)

Monday 10/21 Lecture 5: Atmospheric Circulation (cont)

Wednesday 10/23 No class

Monday 10/28 Lecture 6: The Hydrologic Cycle (Hartmann, 5)

Wednesday 10/30 Lecture 7: Ocean Circulation (Hartmann, 7)

Monday 11/4 Lecture 8: ENSO

Wednesday 11/6 Midterm exam

Monday 11/11 No class (Veteran's Day)

Wednesday 11/13 Lecture 9: Paleoclimate (Hartmann, 8)

Monday 11/18 Lecture 10: Climate Sensitivity (Hartmann, 9)

Wednesday 11/20 Lecture 11: Observed Climate Change (Hartmann, 11)

Monday 11/25 Lecture 11 (cont)

Wednesday 11/27 Lecture 12: The Carbon Cycle

Monday 12/2 Lecture 13: Climate and Climate Change Modeling (Hartmann, 10)

Wednesday 12/4 Lecture 13 (cont)

Friday 12/13, 8:00am Exam

Grading

Midterm, 35%

Final exam, 55%

Homework (roughly 4 assignments graded on a P/F basis) 10%