Atmo 201 Midterm 3 study guide

This exam is not explicitly cumulative, and covers material from chapters 8-10 and part of 11, and all material from class after exam 2 through Friday 22 October. Material introduced in the first part that is covered in chapters 8-10 will be included.

General info (copied from exam 1 guide)
The exam will be multiple-choice, with a (large) scantron required. The distribution of questions will approximately be proportionate to the amount of class time spent on a general topic. Most questions are drawn from the reading, but selected based on what was covered and how it was covered in class. However, coverage of the material in class is the best indicator it may be on the exam. Below, I will indicate specifically which parts of chapters are most (or least) important. I will note review and other questions that will best help you study what I want you to learn. I will note sections as *emphasize* (more likely to result in a question on the exam), *informational* (not likely to independently generate a question, but may be referred to later in the class), or *reference* (majors and other interested parties should read and enjoy). All other sections are of average likeliness to lead to a question (note that “section” includes “focus on …” and pretty much anything written in a chapter.

A good way to study a chapter is to review your notes and/or the posted class slides; look at the review questions briefly; read the chapter; answer the review questions in writing, rereading parts of the chapter as needed; make sure you understand the “key terms” that come from assigned parts of chapters; reread the “brief review” and “summary” sections.

Finally, you may bring one page (one side of a letter-sized piece of paper) of handwritten notes to the exam, and no calculator will be needed or allowed. Any material you have difficulty with should be written there. Another good study technique is to write out a many-page “cheat sheet” while studying, covering all the material; then write a 1-page version with the hardest stuff; only the latter may be used during the actual exam.

Chapter 8 (pp. 215-219)
- Questions for review: 18-20, 22-23
Winds that influence the wind (surface winds subsection)
Winds aloft in the southern hemisphere
Winds and vertical air motions

Chapter 9
- Questions for review: 1-9, 11-15, 18-23, 25-29 (esp. 29)
Small scale winds
Eddies and air pockets
Determining wind speed and direction
Pedaling into the wind (info)
Wind power
“Wind measurements” subsection (info)
Local wind systems (emphasize)
Snow eaters and rapid temperature changes

Chapter 10
● Questions for review: All, especially 1,4,14-16
General circulation of the atmosphere (emphasize)
Dishpan experiment
Jet streams
Momentum
Atmosphere ocean interactions (emphasize)

Chapter 11 (pp. 287-289)
● Questions for review: 1-2, 4, 6
Air masses: source regions, classification and table 11.1, figures 11.1-2 (emphasize)