

**ESC 1400G - Sections 10, 11, 12**  
**Final examination review sheet**

**Weather and Climate, Fall 2006**

The final examination covers chapters 8-14. The list provided below is intended as a study-aid for the exam. It is not just a list of the only material that will be on the exam (i.e. just because a topic is not on the list below, does not mean it won't be on the exam. If we covered it in class, it's fair game!!). Also, study your quizzes- you might find a question (or three) on the exam that was on a previous quiz!

Chapter 8:

- Air masses and source regions
- Classification of air masses
- Air mass interactions and modification
- North American air masses
- Lake effect snow/rain

Chapter 9:

- Fronts
- Life cycle and characteristics of midlatitude cyclones (KNOW THE CYCLONE & HOW COLD/WARM/ETC FRONTS, TEMPERATURE, WINDS, PRESSURE CORRESPOND & RELATE TO A CYCLONE!)
- Cyclone formation
- Divergence and convergence

Chapter 10:

- Thunderstorm classification and formation
- Lightning and thunder (formation and distances)
- Tornadoes; classification (Fujita Scale), formation, occurrence, forecasting, safety

Chapter 11:

- Birth, life, and death of a hurricane
- Hurricane classification (Saffir-Simpson scale), occurrence, forecasting, and safety
- Hurricane damage
- Hurricane Katrina and New Orleans

Chapter 12

- Weather forecasting methods

Chapter 13

- Air pollution types
- Sources
- Problems & remedies

Chapter 14

- Paleoclimatology
  - How do we know about past climates?
  - Evidence
  - Causes
  - Implication(s)
  - Greenhouse Effect
  - Global warming