Summary for Final Exam for Met 100 Fall 2011

- Chapter 8 Atmospheric-Ocean Interactions
  - Upwelling
  - Southern Oscillation
  - El Nino and La Nina
    - Pressure changes
    - Water changes
    - Precipitation location changes
    - Consequences
  - Tropical Cyclones
    - Necessary conditions
    - Hurricane growth
    - What they are like
    - Death of a hurricane
    - Damage from hurricanes
    - Location and frequency of storms
- Chapter 9 Air Masses and Fronts
  - Air Masses (cP, mP, cT, cP)
  - Source regions
  - Weather associated with their movement (air mass modification)
  - Lake-effect snow
    - How it forms
    - Conditions favorable
  - Fronts (warm, cold, stationary, occluded)
    - What they are like (isobars, winds, slope, clouds, vertical cross-section)
    - Weather associated with them
    - Dry lines
- Chapter 10 Extratropical Cyclones
  - Norwegian Cyclone model
  - Regions of cyclogenesis
  - Major storm tracks
  - Surface vs upper air divergence
- Chapter 11 Thunderstorms and Tornadoes
  - Thunderstorms
    - Where they occur
    - Initial setting
    - Development
    - Description
    - Squall Line
    - Dry Line
    - Severe Thunderstorm
  - Tornadoes
    - Initial setting
    - Appearance
    - Pressure

- Wall cloud
- Radar views (Hook echo)
- Location
- Damage
- Suction Vortices

Microbursts
Water spouts
Dust Devils
Lightning

- Electric Field
- Parts of lightning stroke
- Thunder
- Heat lightning
- Precautions

Hail