Review: Chapter 13 Forecasting

- Name 10 businesses that can benefit from accurate weather forecasts.
- Name all the ways of taking weather observations that we mentioned in class.
- In the US: Roughly how many surface weather observing sites are there? Roughly how many weather balloon sites? How many geosynchronous satellites does the US operate?
- Why does the United States care about weather observations in other countries?
- What is done to observations before they can be used as the starting point for a computer weather forecast?

Methods of Forecasting

- What is a persistence forecast?
- What is a trend forecast?
- How far into the future does it make sense to use a persistence or trend forecast?
- How are forecasts 1 to 10 days into the future usually made?
- Distinguish between skill and accuracy for weather forecasting.
- At what time scale is a climatological forecast generally more skillful than a detailed computer weather forecast?
- What are some approaches to seasonal forecasting?

Review: Chapter 14 Forecasting

- What is a probability forecast?
- What is ensemble forecasting?
- What did Dr. Krishnamurti do at FSU to improve ensemble forecasts?
- What is always the trade-off involved in ensemble forecasting?
- How can observations of the clouds overhead help you forecast the weather?
- Open your book to page 348. Cover table 13.3 except for the first column (Observations). Read an observation and make a forecast. Check it by lifting the cover from the other columns.

Methods of Forecasting

- What is a climatology forecast?
- Why is persistence a poor way of forecasting tomorrow's weather if a cold front will pass later tonight?
- Describe 3 techniques used to forecast conditions several weeks or more into the future.
- How do meteorologists decide whether a forecasting procedure has "skill"?
- How is it possible that a fairly accurate forecast may not be a very skillful forecast?
  Can you give an example of this kind of situation for Tallahassee?

Forecasting and Uncertainty

- How far into the future is it theoretically possible to forecast the weather?
- What does it mean if there is a 60% chance of rain?