

Meteo 1 Fall 2012
Chapter 9 Weather Forecasting Outline

How are **weather observations** collected and analyzed?

Atmospheric soundings (Radiosonde), satellite imagery, etc.

Satellite imagery

Geostationary orbit VS. Polar orbit

Data Type (what can we infer from each type of data?):

visible light, infrared, water vapor

What are the different types of weather forecasts?

eg. now cast, short range, medium range, and long range

Accuracy and Assumptions

Resolution of forecast

Region of source data for the forecast

How are satellite data used to forecast the weather?

Weather Forecasting Using Surface Charts

Movement of Weather Systems, some generalizations:

- Mid-lat cyclones move in same direction and speed as previous 6 hrs
- Lows move in direction parallel the isobars in the warm air ahead of the cold front
- Lows move toward region of greatest pressure drop