Weather Basics

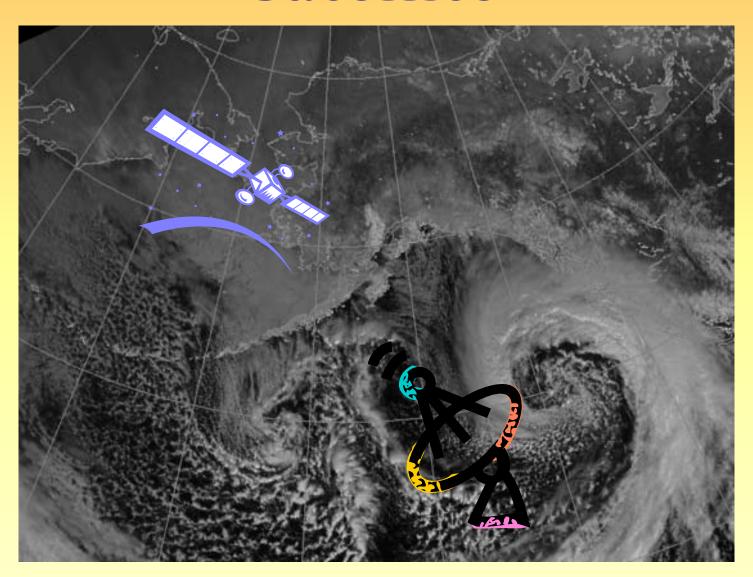
3/10/2010



Weather Basics

- How to read satellite imagery
- Precipitation map clues
- · Which way do winds go?
- Know the 500 mb flow

Satellite



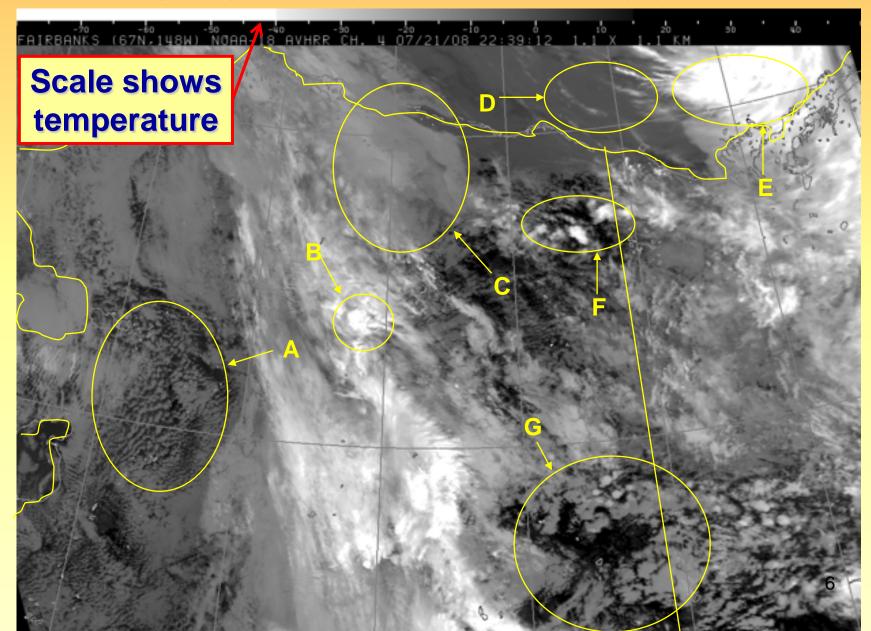
Satellite Basics

- Infrared "sees" temperature:
 - White = Cold = High Cloud
 - Grey = Warm = Mid Cloud to Low Cloud
 - Black = Very Warm = Low Cloud or Ground
- Visible "sees" thickness:
 - White = Thick Cloud
 - Grey = Thin Cloud
 - Black = Ground

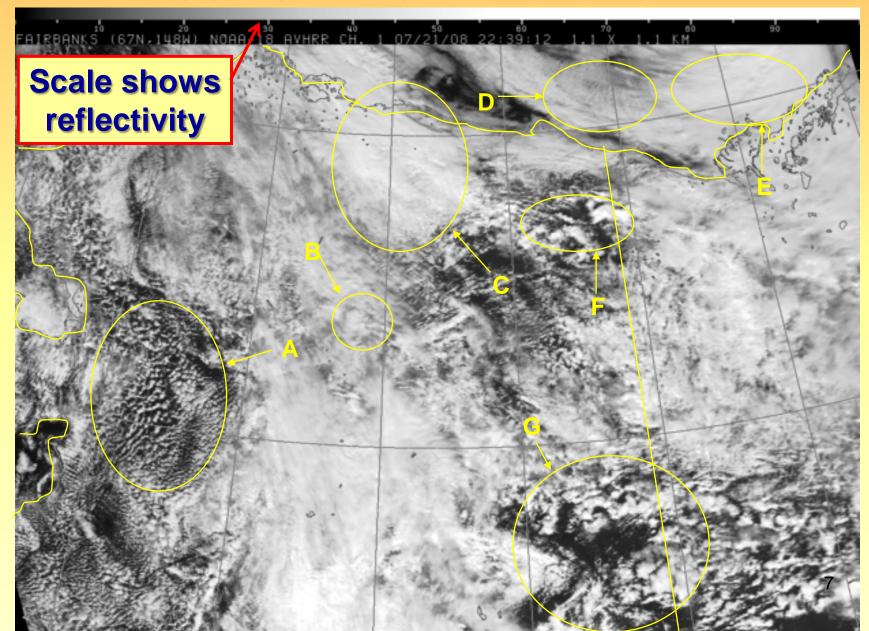
Satellite Quiz

Use the next two slides to determine some basic cloud features:

Satellite-Infrared



Satellite-Visible



Satellite "Answers"

A = lines of cumulus clouds, in the mid levels

B = thunderstorm

C = Low level stratus or fog

D = Fog over water-lower tops than area C

E = Thick cloud, with high level cirrus on top

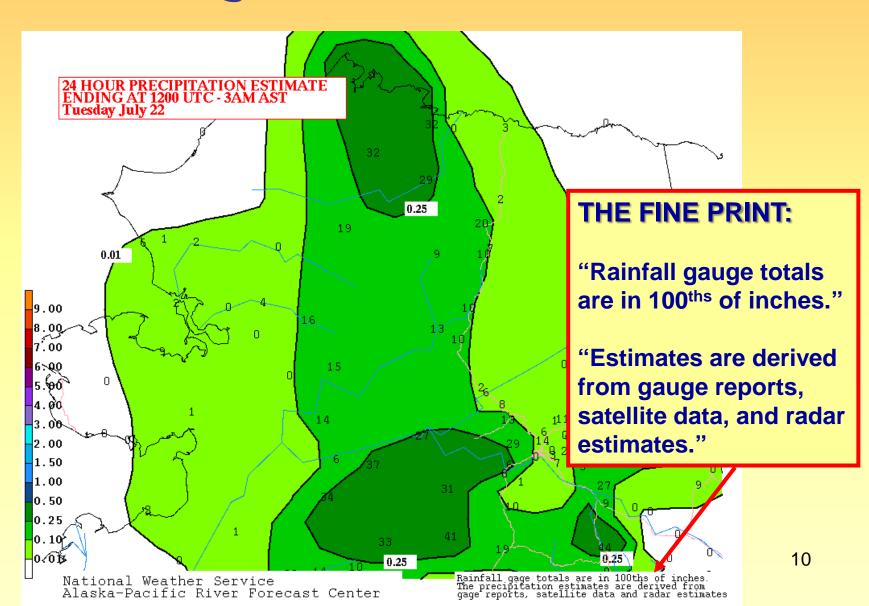
F = More thunderstorms and showers

G = Altocumulus, thickest at edges of circle

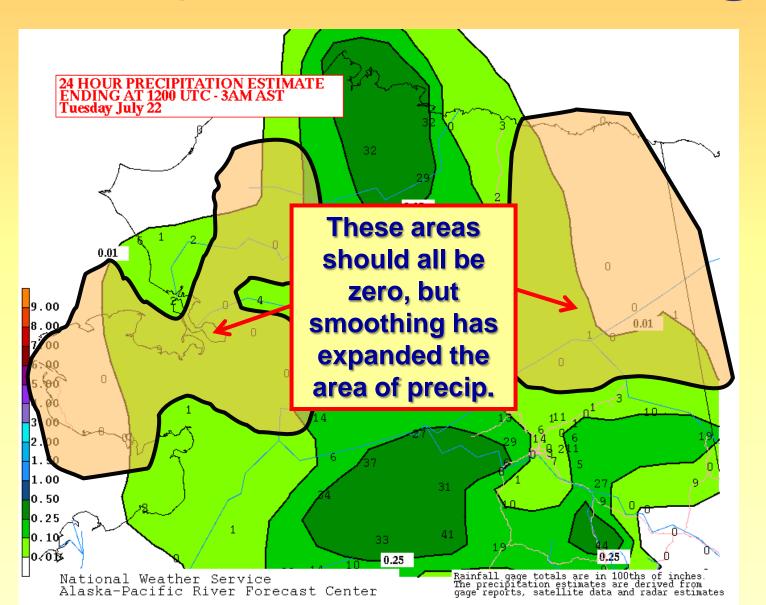
Precipitation



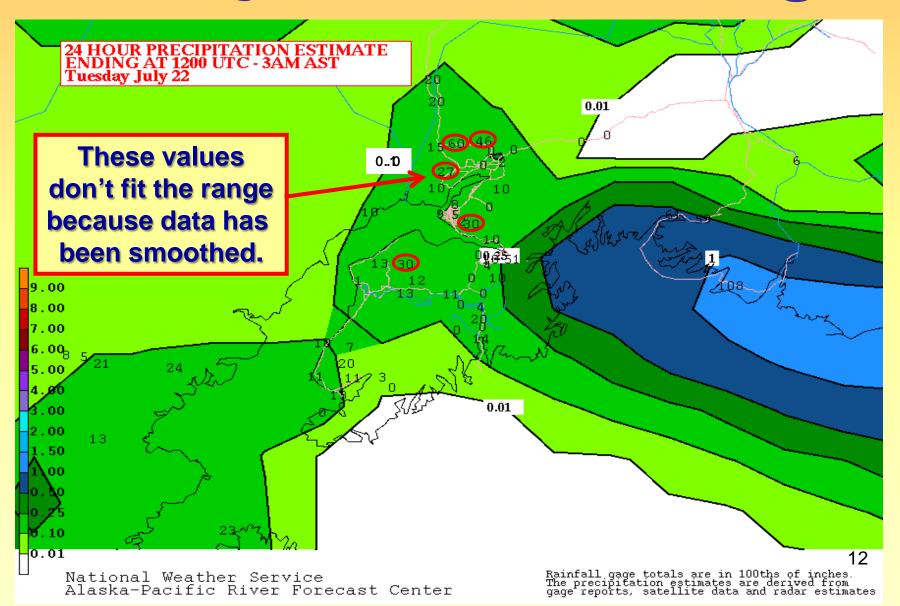
Precipitation Sources



Precipitation Smoothing



Precipitation Smoothing

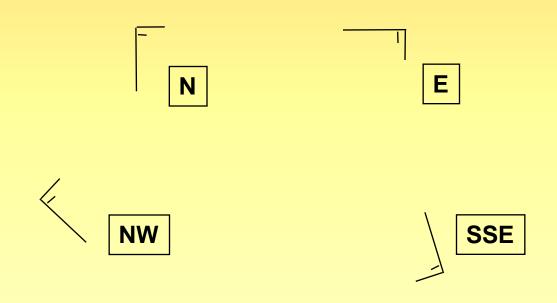


Winds

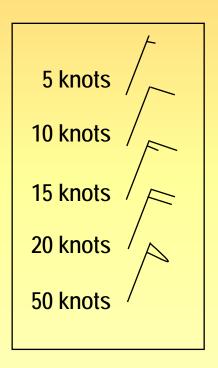


Wind Direction

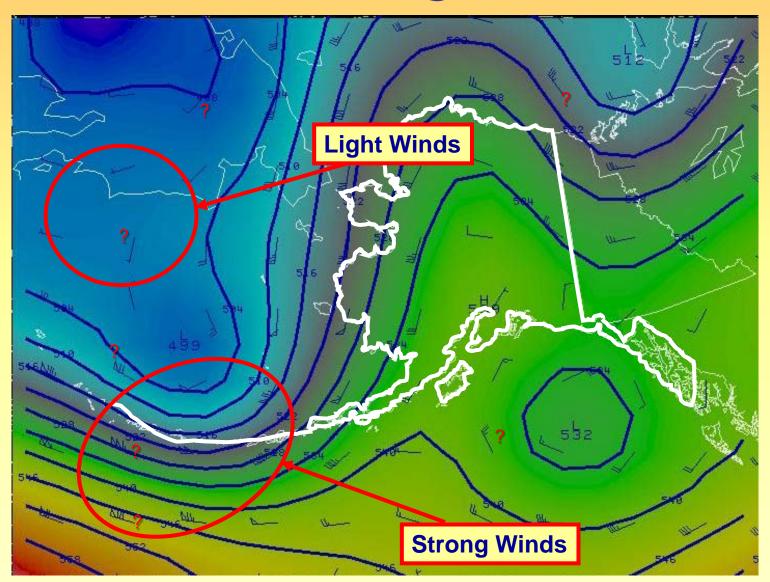
Named for the direction winds come **FROM**



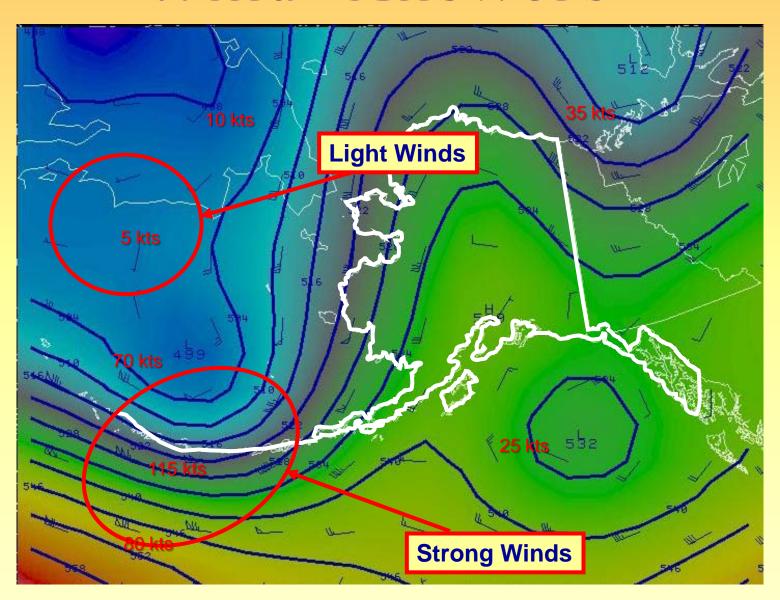
Wind Speeds



Wind Quiz



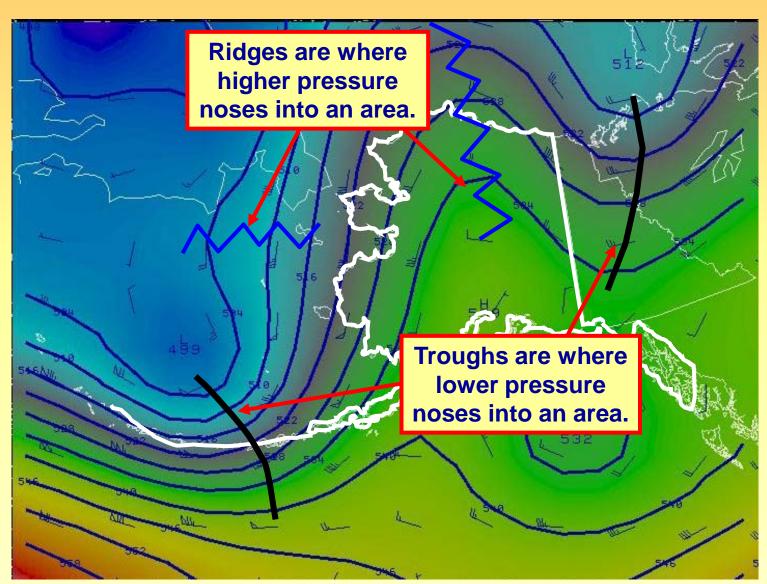
Wind "Answers"



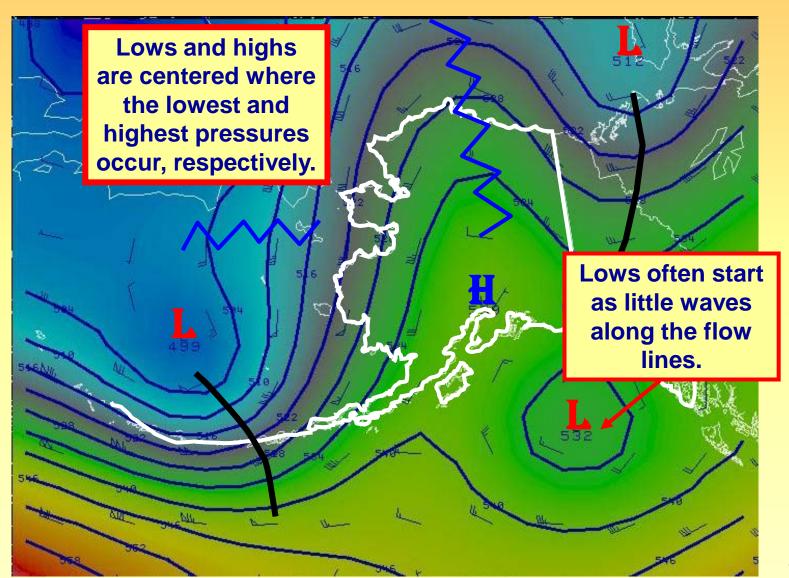
500 mb Flow



500 mb Features



500 mb Features



That's all, Folks!