



Using Satellites to Learn about Weather Around the World



Paula Arvedson

California State University, Los Angeles

Peter Arvedson

La Puente High School, La Puente



-
-
-

Pre-Unit Foundations

- “Seeing” clouds
- Types of clouds
- What clouds tell us
- Satellite images of clouds
- How they are “seen”
- How the data are sent

-
-
-

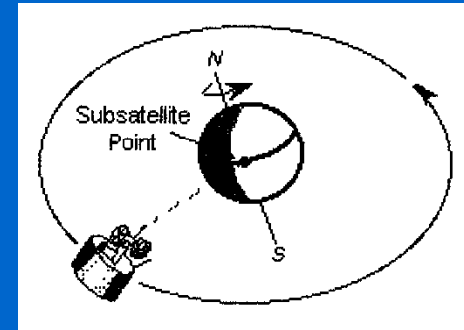
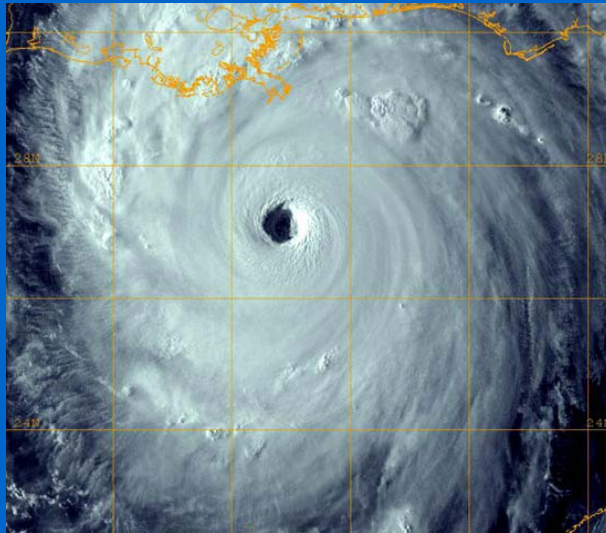
Clouds



-
-
-

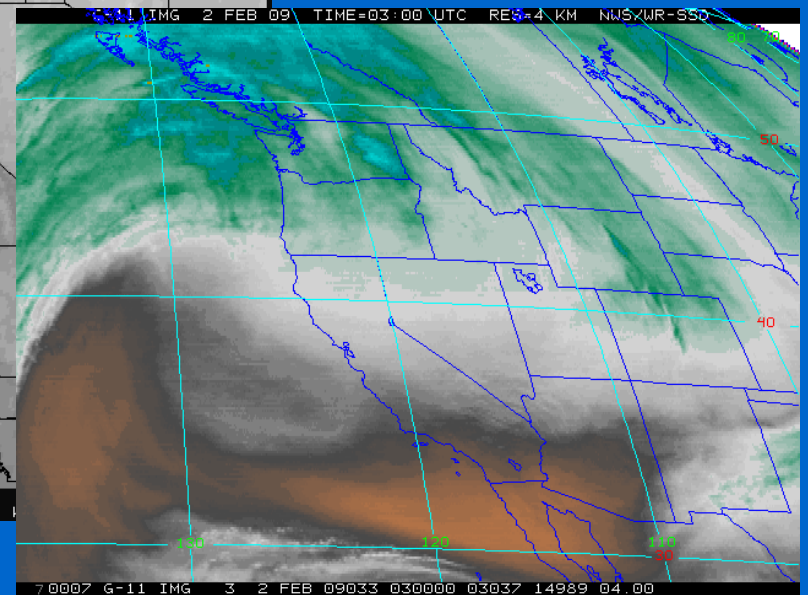
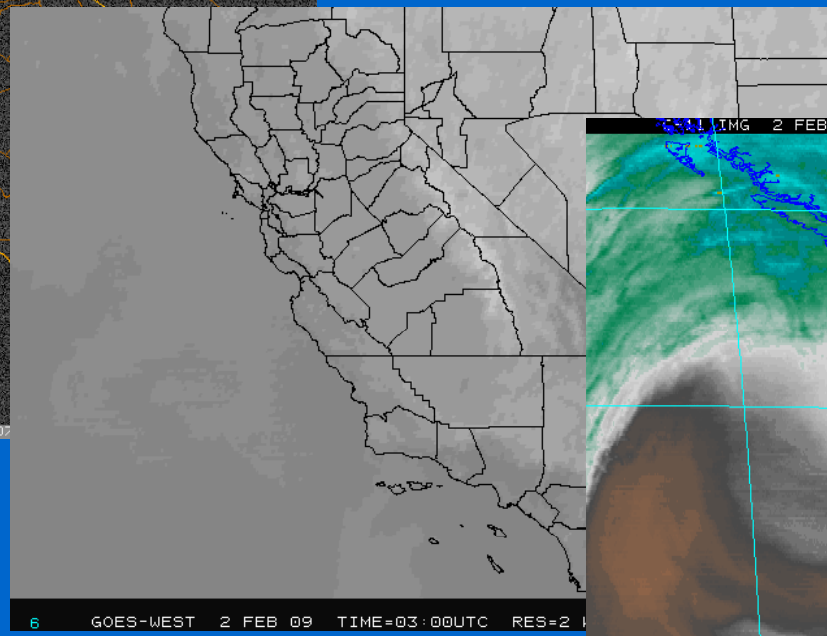
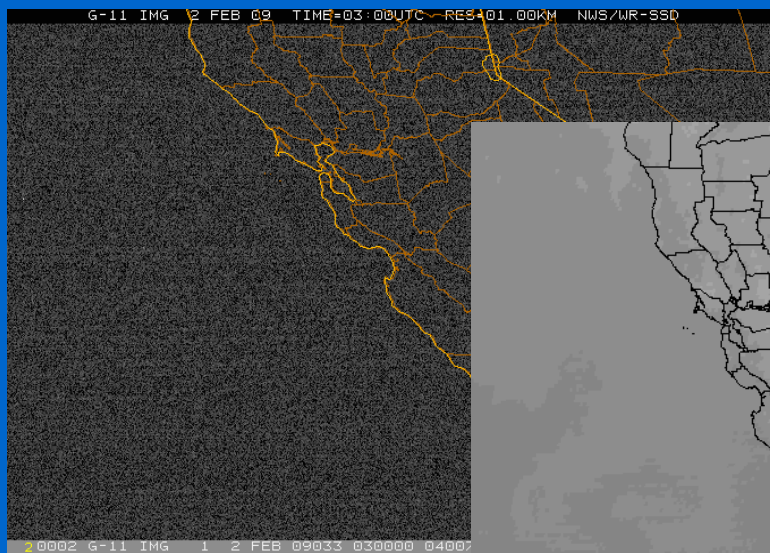
Seeing Clouds from Above

- Satellites Capture Images



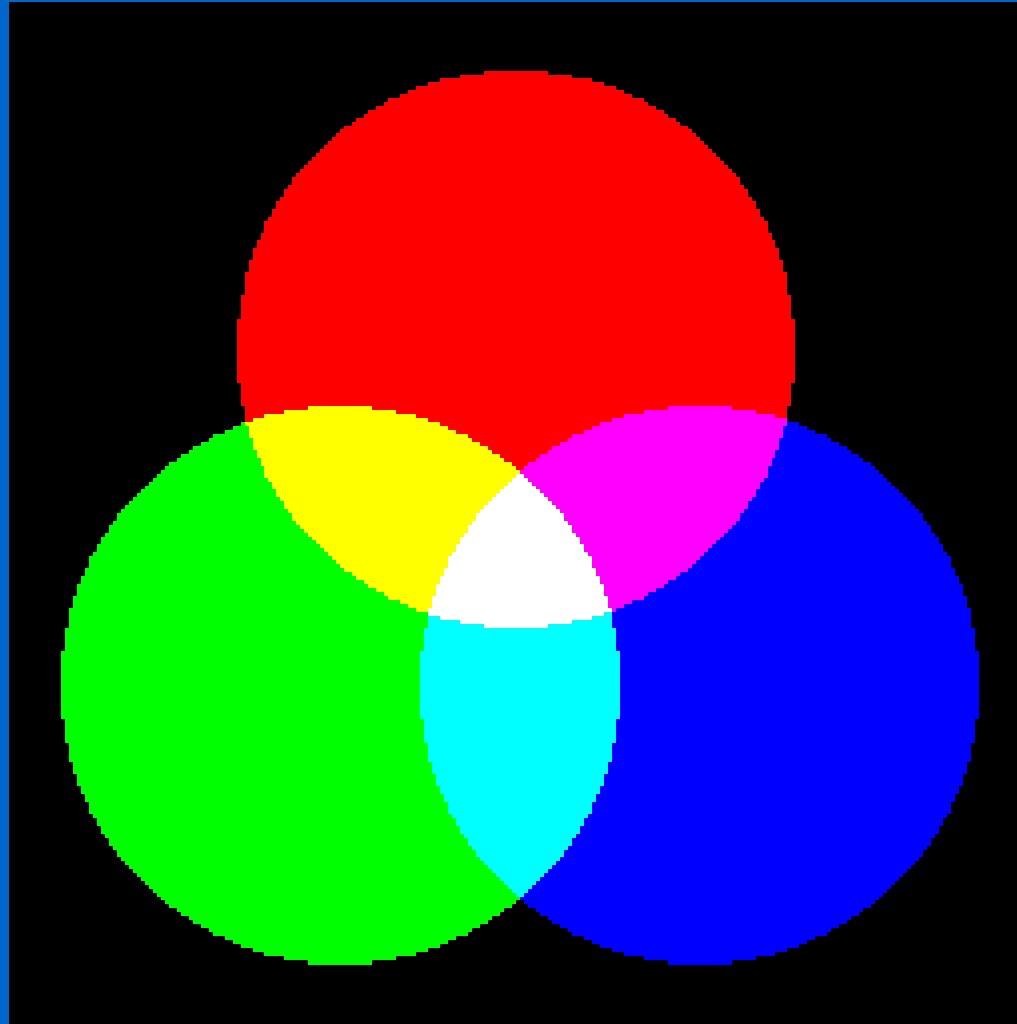
Seeing Clouds from Above

- And the data can tell us how high (cold) they are and their direction of movement

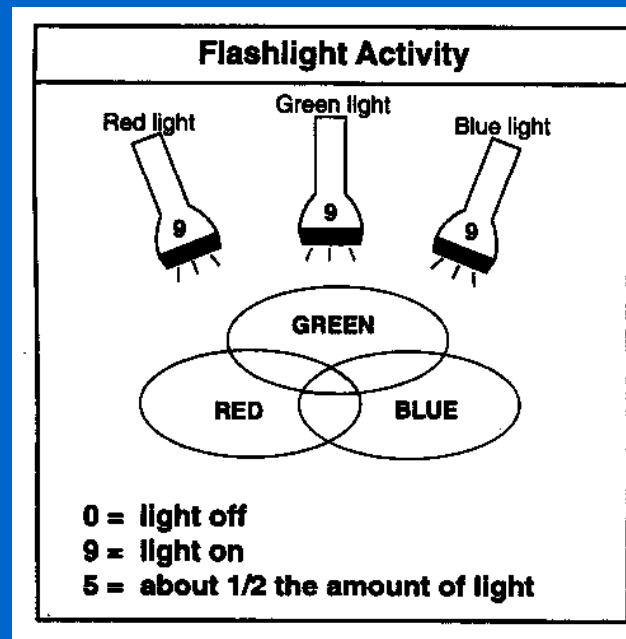


-
-
-

Colors

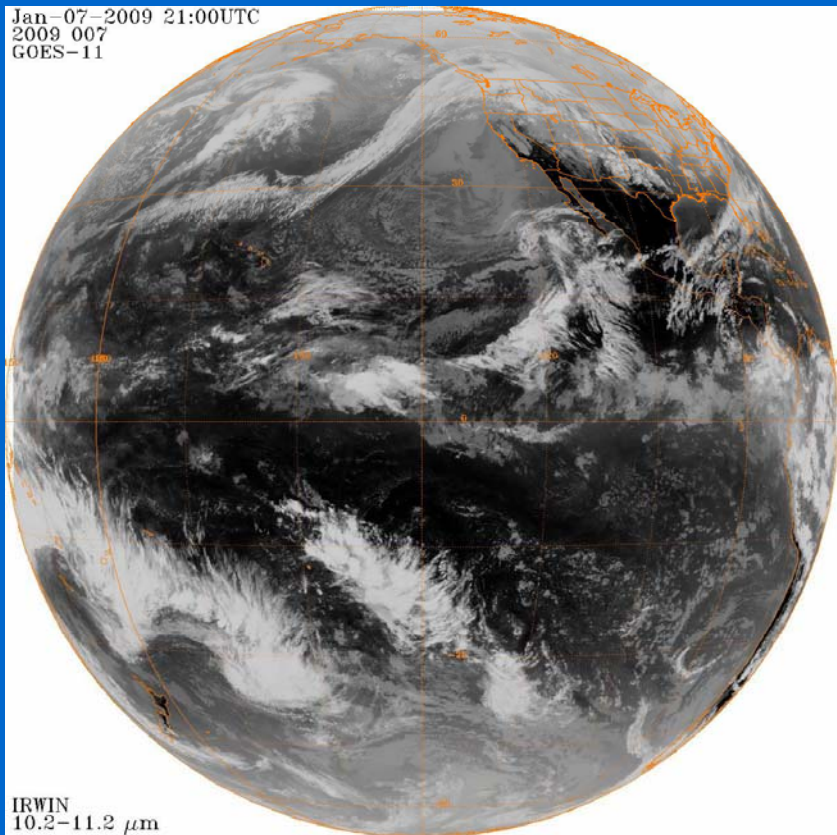


Digital Picture Activity

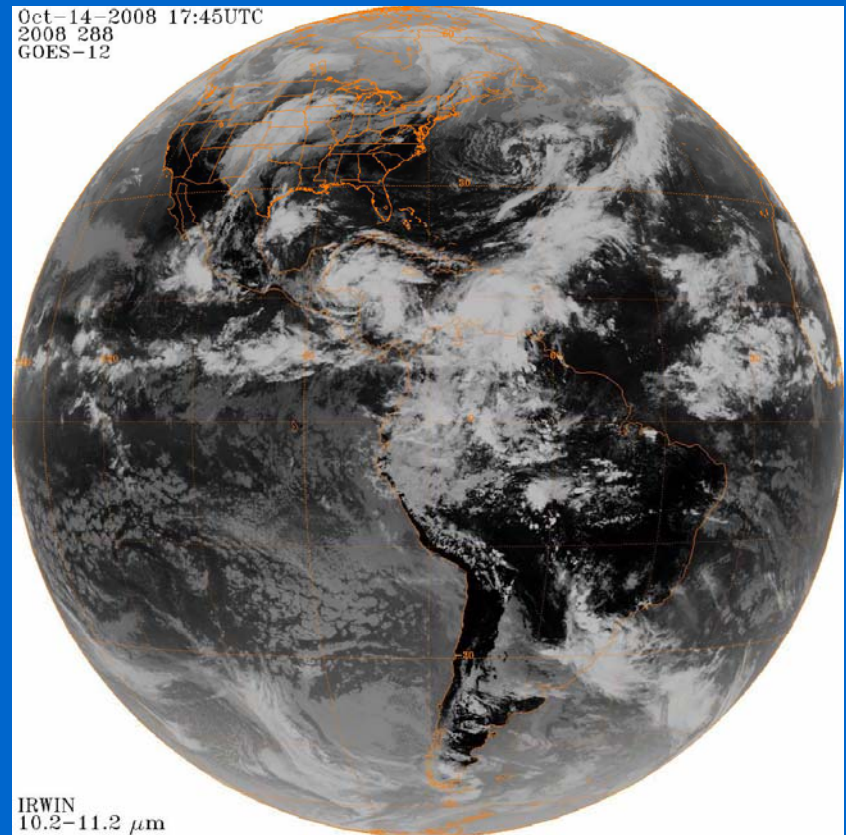


Seeing Patterns

Jan-07-2009 21:00UTC
2009 007
GOES-11



Oct-14-2008 17:45UTC
2008 288
GOES-12



•
•
•

World Wide Weather Unit

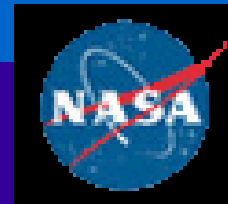
- Students describe differences in weather all over the world
- Students explore causes of weather patterns
- Students describe how weather in one location helps predict weather in related areas.
- Students work collaboratively in small teams and full class project

Full Class Project takes 4 weeks

- Students work in groups
- Each group has a different continent
- Each group gathers daily information for the weather at that continent
- Each group member has a job
- (weather reporter, multimedia producer, journalist, chartist)
- Each job has data to gather
- Jobs rotate each week



**National Oceanic
& Atmospheric Administration**



**National Aeronautics
& Space Administration**



California State University, Los Angeles

SATELLITES & EDUCATION CONFERENCE

August 13 – 15

Register Now at www.SatED.org