

CHAPTER 1: *Monitoring the Weather*

To view and use the COMET modules, you must first register with MetEd. Website registration is free of charge and requires the use of an email address. Please visit <http://www.meted.ucar.edu/> to register. Locate the “Resources” section on the homepage, then choose “Accounts/Registration”. Click “Register Now” to begin registration.

- “GOES-R: Benefits of Next Generation Environmental Monitoring”
http://www.meted.ucar.edu/goes_r/envmon/monitoring.htm

This module describes how GOES-R satellites monitor environmental hazards and phenomena. Satellites are a valuable source of weather information and allow meteorologists to observe various aspects of the atmosphere. Explore the *Environmental Monitoring* section of this module by choosing any of the topics listed to understand how satellites are used to monitor that phenomenon and its benefit to forecasters. New advances in satellite technology are discussed at the end of each video.

- “Remote Sensing Using Satellites”
<http://www.comet.ucar.edu/nsflab/web/>

“Remote Sensing Using Satellites” provides graphics, animations, and science content about remote sensing and satellite imagery. Review the *Satellite Imagery* and *Remote Sensing* sections on the welcome page to take an in-depth look at each subject matter. The *Satellite Imagery* section explores Visible and Infrared channels. The *Remote Sensing* section discusses both satellite and radar in the *Remote Sensing in Meteorology* section. Continue on in the module to the section entitled *Satellites as Remote Sensors* to learn more about GOES and POES satellites, both introduced in the *Weather Satellite Imagery* section of the textbook.

- “Clouds, Precipitation, & Water Vapor”
http://www.meted.ucar.edu/npoess/microwave_topics/clouds_precip_water_vapor/

This module provides information on water vapor imagery, precipitable water, and cloud liquid water. Use Section 2, *Atmospheric Microwave Products*, to review these subjects and learn more about satellites and water vapor imagery.