

## Investigation 4: Weather Radiosondes, Satellites, and Radar

### This investigation will help you to:

- Learn more about radiosondes.
- Learn more about weather radar.
- Learn more about weather satellites.
- Complete Part A of this investigation, you will need Satellite Images showing weather conditions.
- Complete Part B of this investigation, you will need current weather maps.

To learn more about radiosondes, visit the following web sites:

#### Radiosondes -- An Upper Air Probe, **University of Wisconsin at Madison**

Learn about the history and technology of the radiosonde that contains instruments capable of making direct in-situ measurements of air temperature, humidity and pressure with height, typically to altitudes of approximately 30 km.

#### NWS Radiosonde Observations - Factsheet, **National Weather Service**

Provides basic information on radiosondes.

To learn more about weather radar, visit the following web sites:

#### Radar Data Details, **Unisys Weather**

This site gives a little more detail about the different types of radar data. In addition, it explains what different colors indicate on a radar image.

#### National Doppler Radar Sites, **National Weather Service**

Interested to know what the radar image in your area looks like right now? Click on the radar site nearest you to find out.

#### Understanding Weather Radar, **USA Today**

Provides basic information about weather radar.

#### Radar and Severe Weather, **Miami University**

If you are really interested in weather radar maps, this site has several of the entire continental United States. It also provides links to other weather related sites.

To learn more about weather satellites, visit the following web sites:

#### Understanding Weather Satellites, **USA Today**

Provides information on the types of satellites and how they work.

Satellites,

#### **Florida State University EXPLORES!**

A complete guide to the history of all weather satellites launched by the U.S.

#### Satellite Data Details, **Unisys Weather**

Find out about and see examples of visible, infrared and water vapor images.

To complete Part A of this investigation, you will need Satellite Images showing weather conditions, visit the following web sites:

Unisys.com,

**Unisys Corp.**

View a current United States weather map on the Unisys homepage.

Interactive Global Geostationary Weather Satellite Images, **NASA**

Includes weather satellite images for location across the globe.

Geostationary Satellite Server, **NOAA**

View satellite images for the eastern U.S., western US, Puerto Rico, Alaska, and Hawaii. Also provides links to other satellite images.

To complete Part B of this investigation, you will need current weather maps, visit the following web sites:

How to find maps.

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