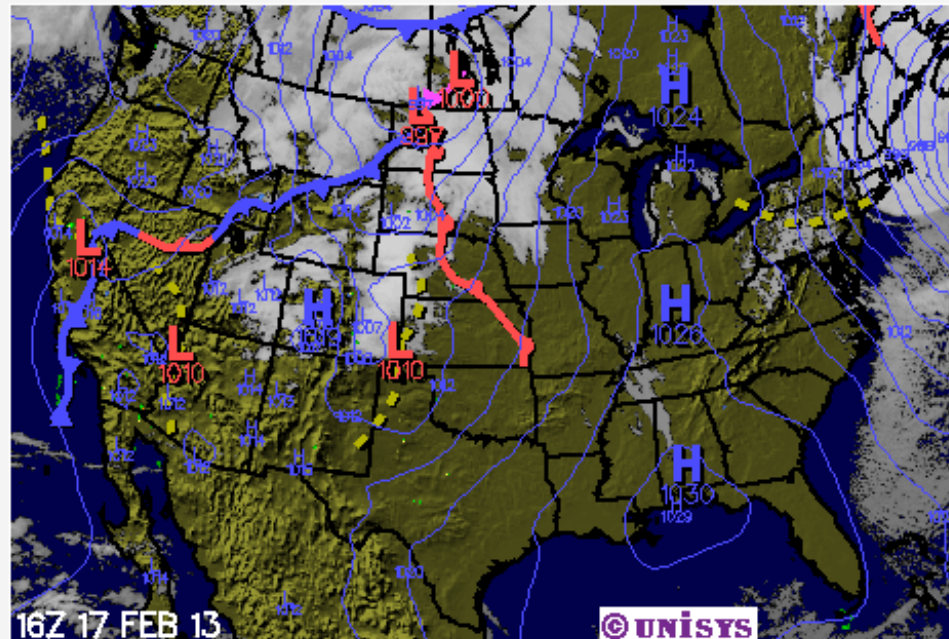


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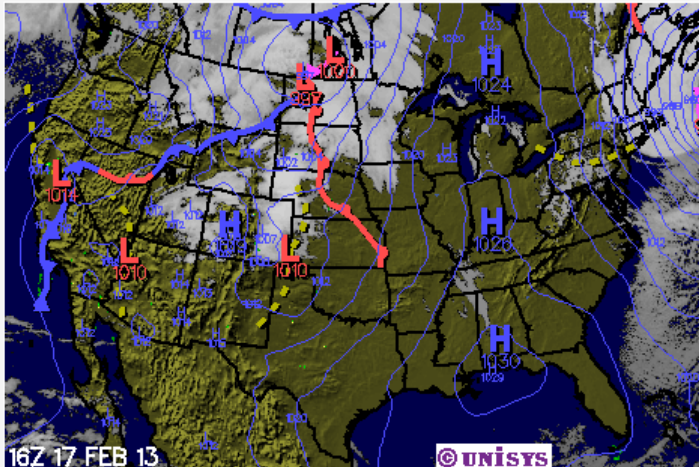
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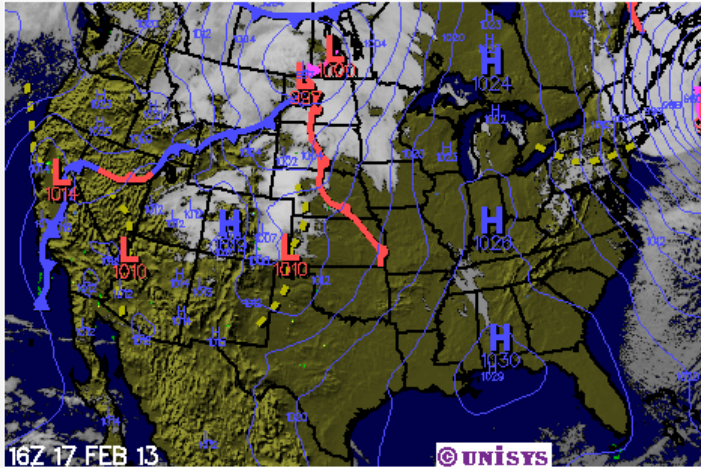
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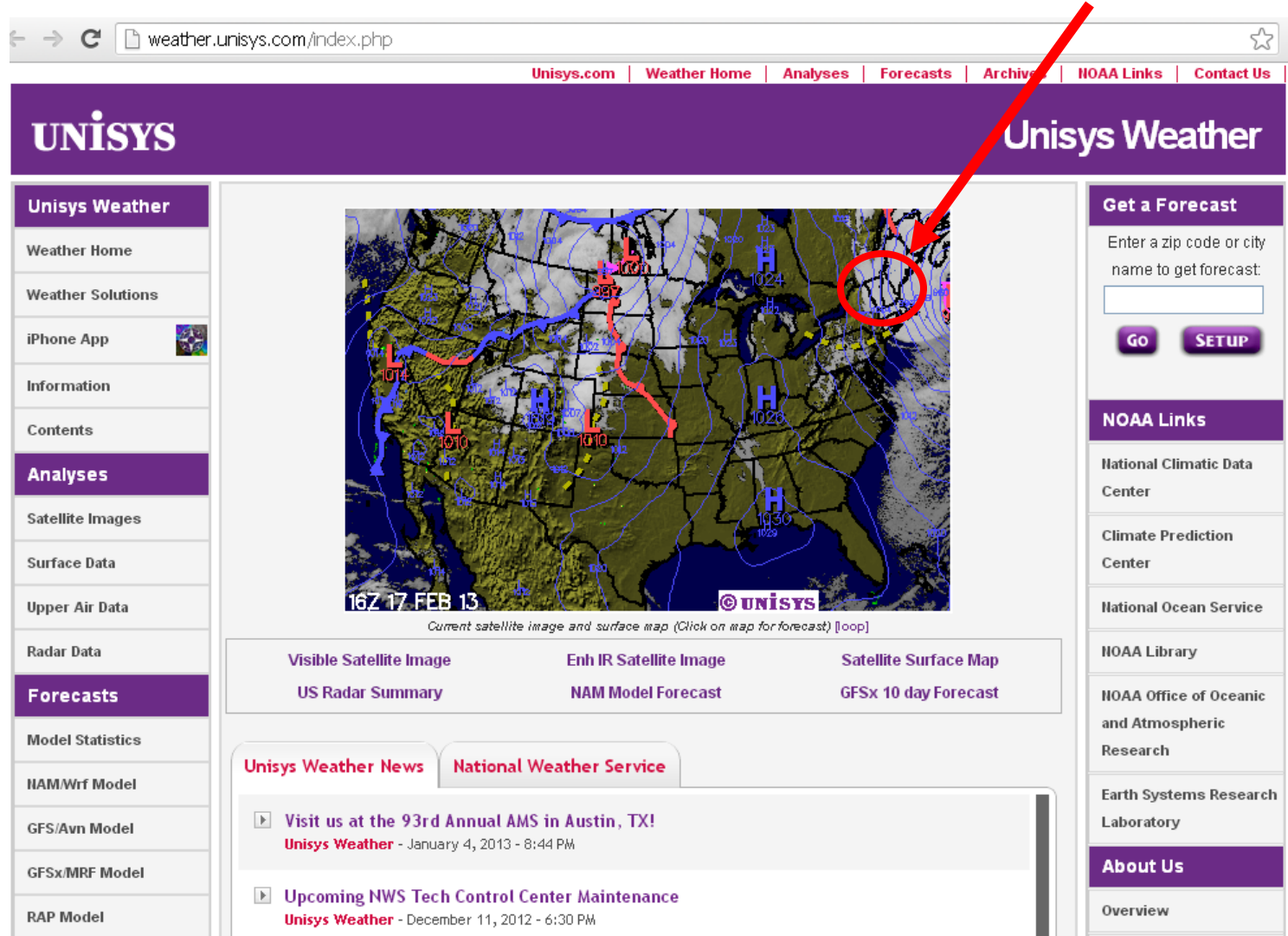
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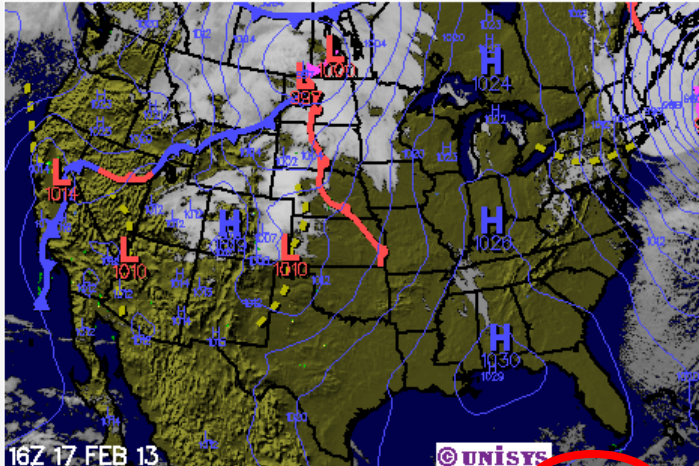
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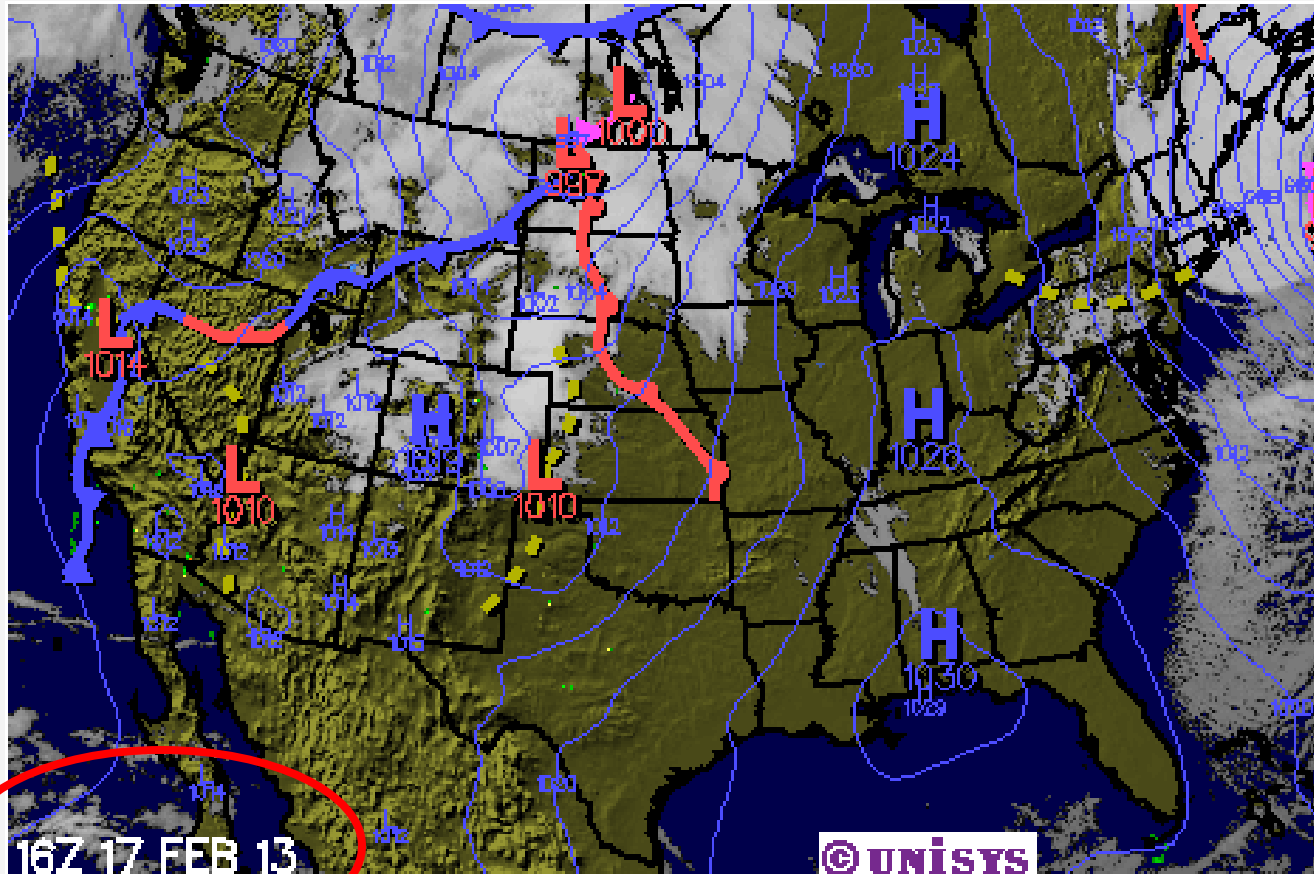
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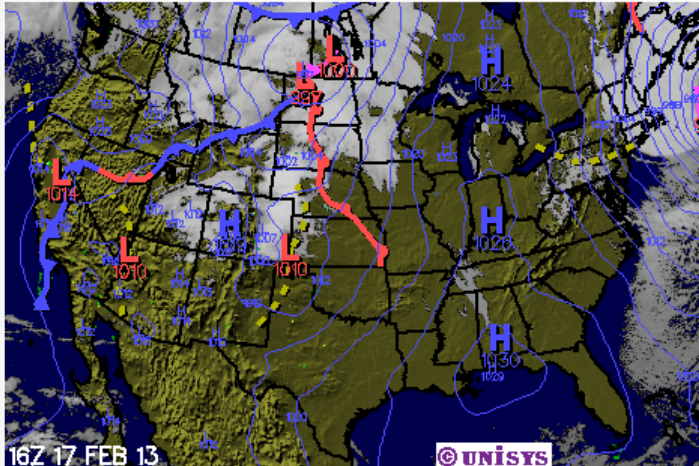
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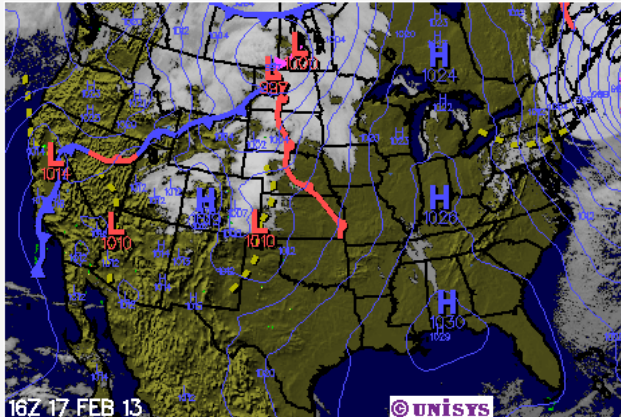
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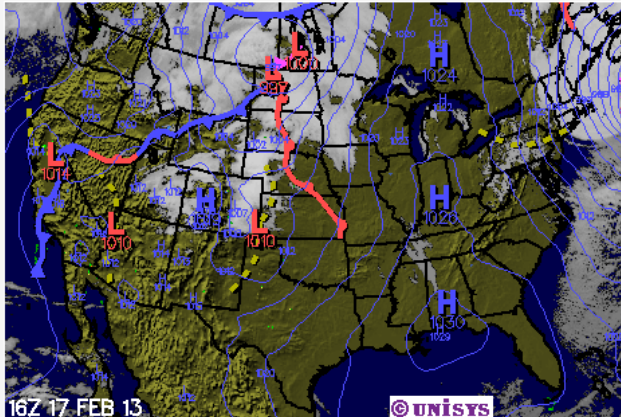
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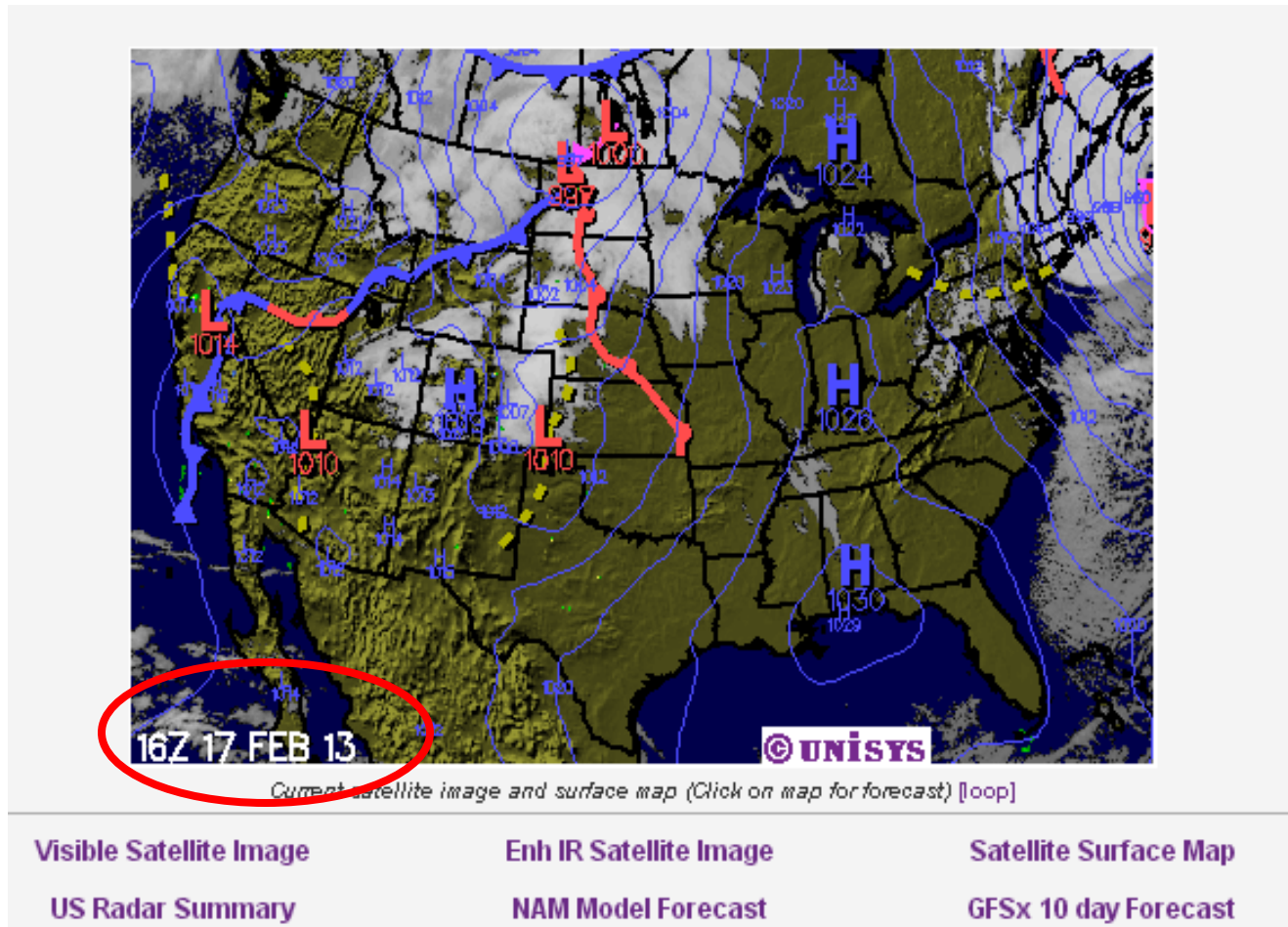
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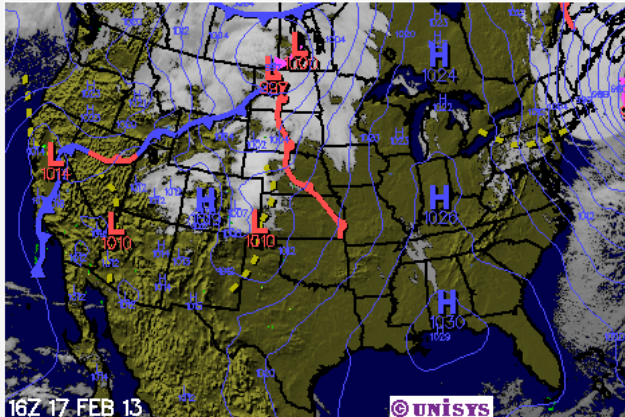
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- Information for the First Time User
- Symbol Legend** - This is an image containing many of the symbols WXP uses in the plots on this server.
- Date/Time Label Information
- Vertical Coordinate - Pressure
- Wind Chill Chart
- Heat Index Chart

Image Schedule (all times EST)

Data Type	Update Times
Satellite data	Every hour at :50
Surface data	Every hour at :25
Upper air data	2 times daily at 9:20
Radar data	Every hour at :05,:35
NAM MOS data	2 times daily at 11:10
GFS MOS data	3:00 AM
NAM model data	2 times daily at 9:50
GFS model data	2 times daily at 11:50
RUC model data	Every 3 hours at :45
ECMWF model data	2 times daily at 2:45
GFSX model data	3:10 AM
Hurricane data	Every 3 hours
Archive data	2 times daily at 1:00

WXP (Weather Processor) Analysis Package

This provides information on the software package that is used to create all the images on this server.

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WXP Symbol Legend

Fronts

- Cold
- Warm
- Stationary
- Occluded
- Trough

Cloud Coverage

- Clear
- 1/8ths
- Scattered
- 3/8ths
- 4/8ths
- 5/8ths
- Broken
- 7/8ths
- Overcast
- Obscured
- Missing

Surface Station Plot

Temp (F) 31 987 Pressure 29.92
Weather xx Clouds Overcast, Wind from SE at 15 knots, Weather light snow, Pressure 998.7 mb
Dewpoint 26 Winds

Upper Air Station Plot

Temp (C) 5 1543 Height 1543m
Dewpoint -3 Winds
Data at pressure level: Temp 5C, Dewpoint -3C, Wind from E at 75 knots, Height of level 1543m

MOS Station Plot

Temp (F) 81 65 POP 65
Weather 19 Clouds Clouds scattered, Wind from SE at 5 knots, Probability of Precip. 65%, with Thunderstorms
Dewpoint 66 Winds

Forecast at valid time:
Temp 81F, Dewpoint 66F, Clouds scattered, Wind from SE at 5 knots, Probability of Precip. 65%, with Thunderstorms

Weather Symbols

Rain	Drizzle	Snow	Freezing Rain	Miscellaneous
Light	Light	Light	Light	Ice Pellets
Moderate	Moderate	Moderate	Moderate	Ice Crystals
Heavy	Heavy	Heavy	Freezing Drizzle	Snow Grains
Rain Showers	Thunderstorm	Snow Showers	Light	Blowing Snow
Light	Light	Light	Moderate	Fog
Moderate	Heavy	Moderate	Tropical	Haze
Lightning			Hurricane	Smoke
			Storm	Dust

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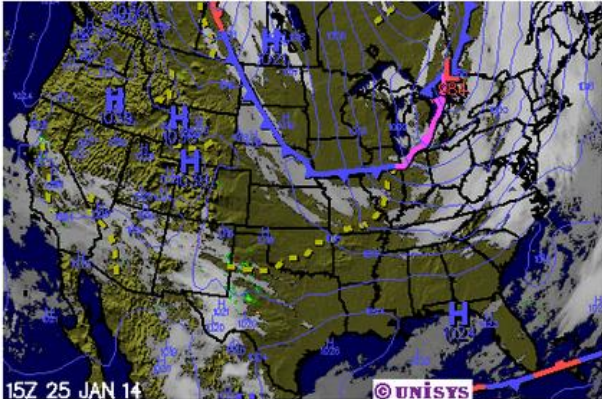
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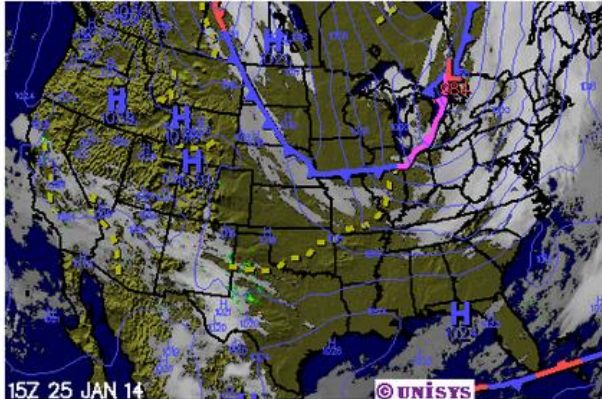
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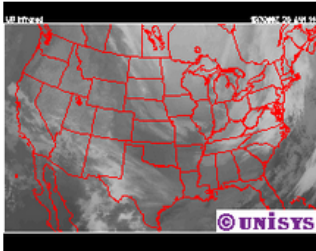
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Current US infrared image

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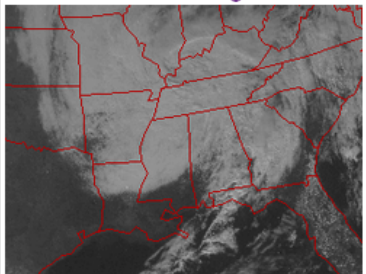
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Satellite Image Details

These images are generated by geostationary satellites orbiting 22,000 miles above the equator. These include visible, infrared and water vapor images. The images are updated once an hour at 50 after the hour.

Visible Satellite Image



Sample visible image

This image is the equivalent of taking a black and white photo of the earth. The bright areas show where the sun is being reflected back into space as a result of clouds or snow cover. Clouds and snow show up white. The thicker the cloud, the brighter the color. Land surfaces show up as gray and ocean surfaces nearly black. The major limitation to visible imagery is that it is only valid during daylight.

There are 5 sectors for the visible image:

1. **East** - GOES east view centered over 75 west longitude showing eastern US and Atlantic Ocean.
2. **West** - GOES west view centered over 125 west longitude showing western US and Pacific Ocean.
3. **Hemisphere** - this is a pieced/merge view of both the GOES east and GOES west satellite views remapped to a Mercator projection.
4. **US** - this is a pieced view of GOES east and west remapped to a polar stereographic projection.
5. **Regional** - these are regional views remapped to a polar stereographic projection.

Infrared Satellite Image

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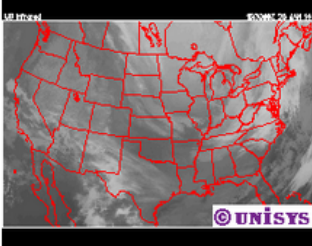
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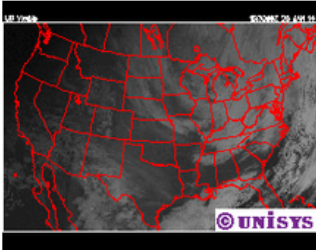
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Visible Satellite Images



Current US visible image

These images shows the reflectance from the visible portion of the solar spectrum. Bright areas show clouds and snow cover. Dark areas are ground and ocean surfaces.

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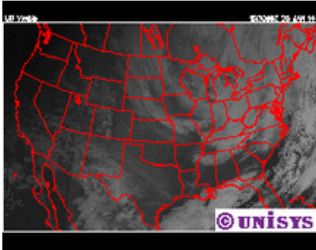
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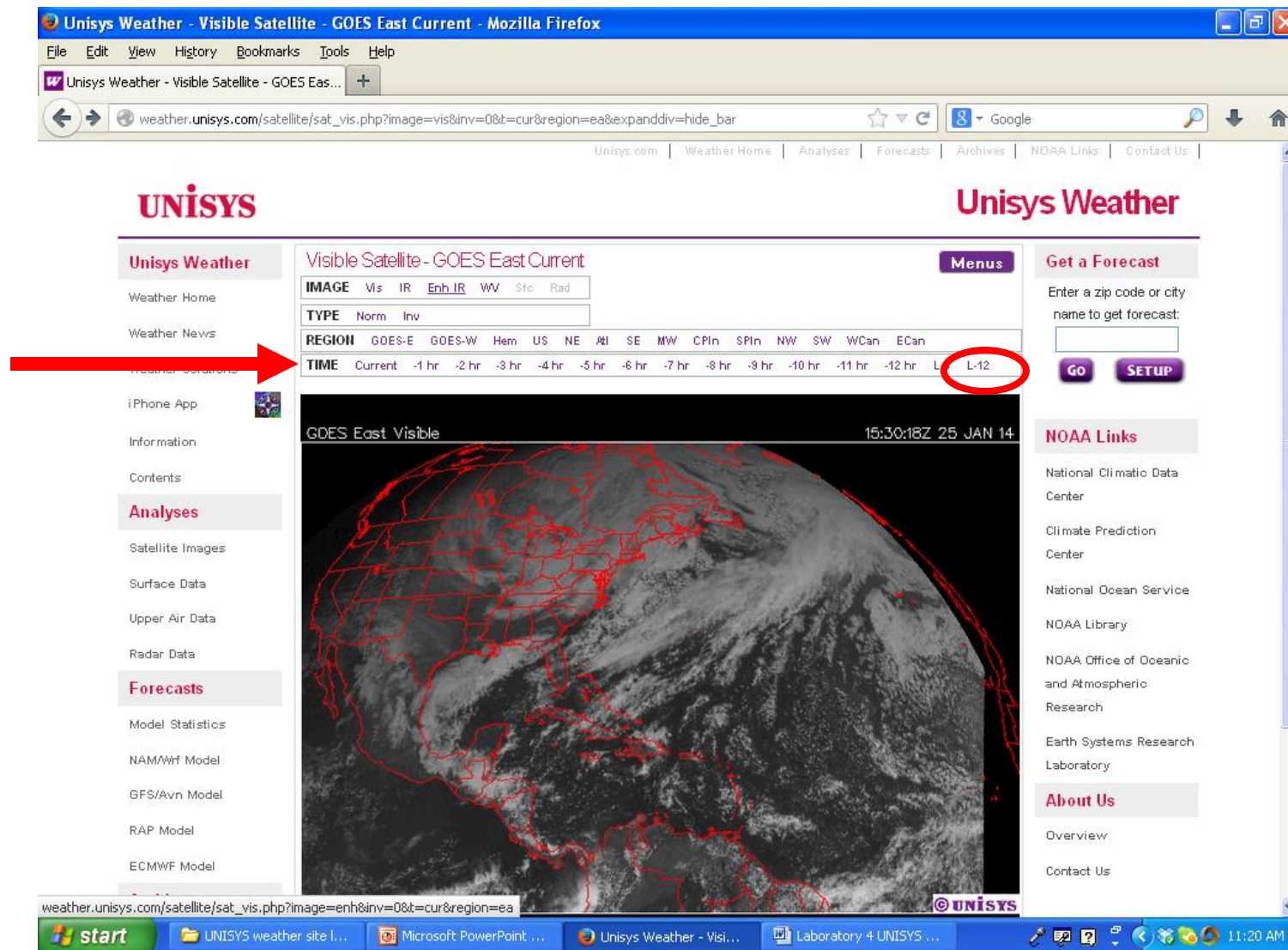
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IMAGE Vis IR Enh IR WV S Rad

TYPE Norm Inv

REGION GOES-E GOES-W Hem U **NE** SE MW CPIn SPIn NW SW WCan ECan

TIME **Current** -1 hr -2 hr -3 hr -4 hr -5 hr -6 hr -7 hr -8 hr -9 hr -10 hr -11 hr -12 hr L-3 L-12

GOES East Visible 15:30:18Z 25 JAN 14

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Visible Satellite GOES East Current

IMAGE Vis IR Enh IR WV Sfc Rad

TYPE Normal

REGION GFS GOESW Nam US NE Ad SE MW Cntrl Nth Mex East

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Visible Satellite - GOES East Current

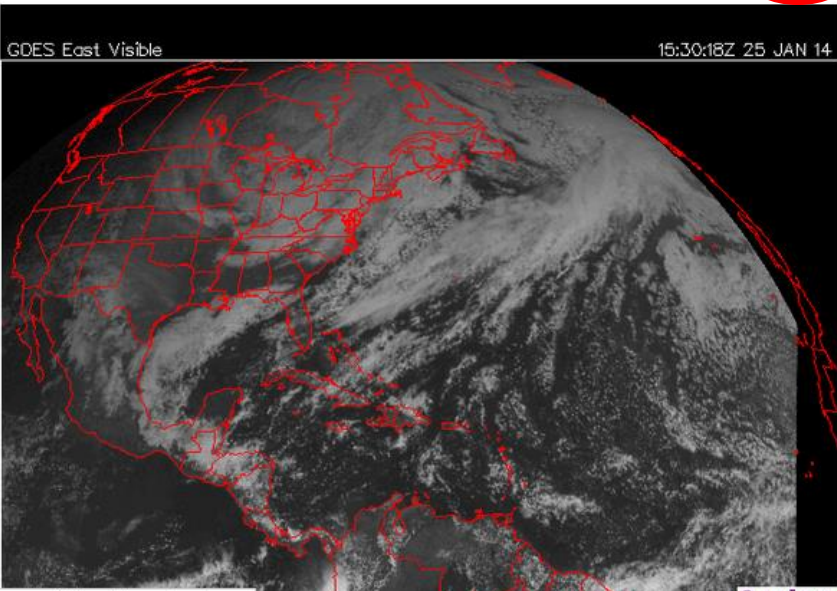
IMAGE: Vis IR Enh IR WV Sfc Rad

TYPE: Norm Inv

REGION: GOES-E GOES-W Hem US NE Ml SE MW CPln SPIn NW SW WCan ECan

TIME: Current -1 hr -2 hr -3 hr -4 hr -5 hr -6 hr -7 hr -8 hr -9 hr -10 hr -11 hr -12 hr L-12

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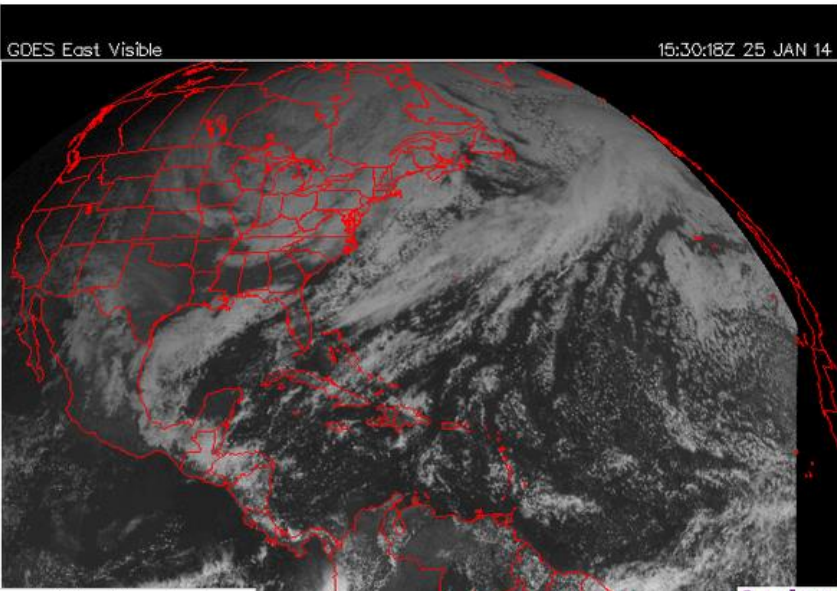
Visible Satellite - GOES East Current

IMAGE Vis IR Enh IR WV Sfc Rad

TYPE Norm Inv

REGION	GOES-E	GOES-W	Hem	US	NE	MI	SE	MW	CPI	SP	NW	SW	WCan	ECan
TIME	Current	-1 hr	-2 hr	-3 hr	-4 hr	-5 hr	-6 hr	-7 hr	-8 hr	-9 hr	-10 hr	-11 hr	-12 hr	L-3 L-12

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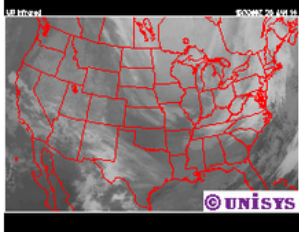
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Current US infrared image

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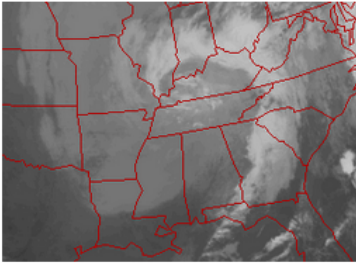
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There are 5 sectors for the visible image:

1. **East** - GOES east view centered over 75 west longitude showing eastern US and Atlantic Ocean.
2. **West** - GOES west view centered over 125 west longitude showing western US and Pacific Ocean.
3. **Hemisphere** - this is a pieced/merge view of both the GOES east and GOES west satellite views remapped to a Mercator projection.
4. **US** - this is a pieced view of GOES east and west remapped to a polar stereographic projection.
5. **Regional** - these are regional views remapped to a polar stereographic projection.

Infrared Satellite Image



Sample infrared image

This type of image shows heat based radiation from the infrared spectrum. In other words, the warmer the surface, the more infrared radiation it emits. For a satellite image, cooler surfaces are bright and warmer surfaces are dark. Since the atmosphere cools as you increase in altitude, clouds would show up as bright areas and land surfaces as dark areas. In addition, low clouds will be more gray and higher clouds will show up more white. Tall thunderstorm clouds will show up as bright white and fog will be hard to discern from land areas. A large advantage of IR is that you can view it 24 hours a day.

There are 5 sectors for the visible image:

1. **East** - GOES east view centered over 75 west longitude showing eastern US and Atlantic Ocean.
2. **West** - GOES west view centered over 125 west longitude showing western US and Pacific Ocean.
3. **Hemisphere** - this is a pieced/merge view of both the GOES east and GOES west satellite views remapped to a Mercator projection.
4. **US** - this is a pieced view of GOES east and west remapped to a polar stereographic projection.
5. **Regional** - these are regional views remapped to a polar stereographic projection.

Enhanced Infrared Satellite Image

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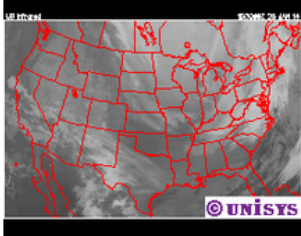
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Current US infrared image

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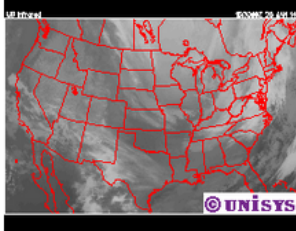
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Current US infrared image

These images shows the emission from the infrared portion of the solar spectrum. Bright areas represent cold high cloud tops. Dark areas represent warm ground and ocean surfaces.

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IMAGE Vis IR Enh IR WV Sfc Rad

TYPE Norm Inv

REGION GOES-E GOES-W Hem US NE MI SE MW CPin SPin NW SW WCan ECan

TIME Current -1 hr -2 hr -3 hr -4 hr -5 hr -6 hr -7 hr -8 hr -9 hr -10 hr -11 hr -12 hr L-12

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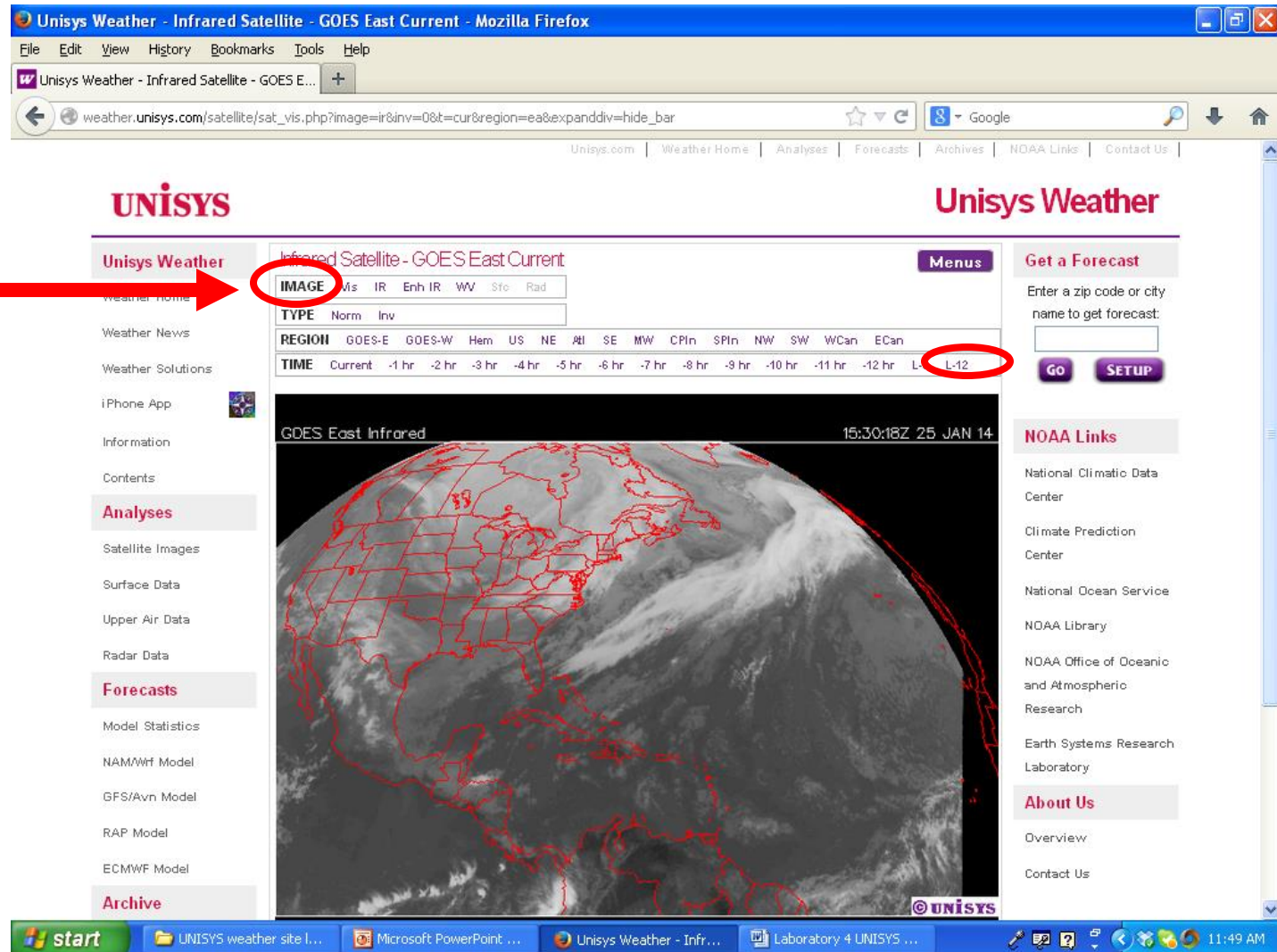
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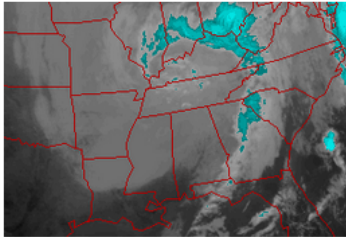
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Enhanced Infrared Satellite Image



Sample enhanced infrared image

This is an infrared image enhanced to highlight the cloud areas and the coldest cloud tops. Since, IR images could be used to determine cloud height, these images are enhanced to highlight the highest, coldest cloud tops. Areas of strong precipitation will show up as shades of cyan. Thunderstorms will show up in blue and green. In addition, the contrast of warmer clouds is increased so that low clouds will show up. A color bar at the bottom of the image will describe the enhancement scheme. The tick marks at the top of the bar represent 10 degree Celsius increments starting at 50C on the left and going to -110C on the right.

The colored regions represent:

Colors	Temps (C)	Temps (F)	Description
dark cyan	-32 to -43	-25 to -45	Jet stream and anvil clouds
cyan	-43 to -54	-45 to -65	
light blue	-54 to -60	-65 to -76	Thick jet stream clouds
dark blue	-60 to -64	-76 to -83	Strong thunderstorm tops
dark green	-64 to -70	-83 to -94	
green	-70 to -76	-94 to -105	Severe thunderstorm tops
brown	-76 to -81	-105 to -114	Strong Hurricane tops
yellow	-81 to -90	-114 to -130	

Water Vapor Satellite Image

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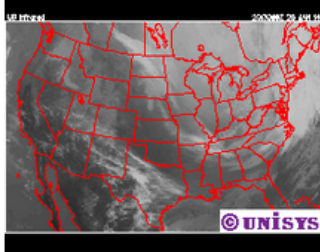
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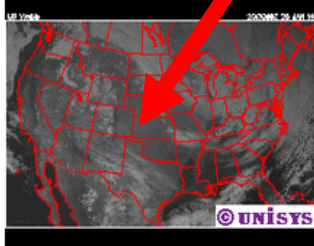
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Current US visible image

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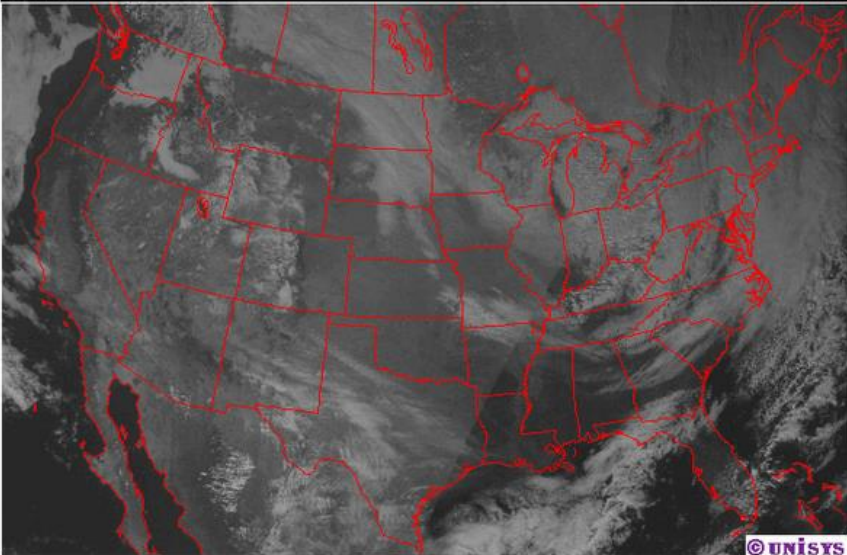
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TYPE Norm Inv

REGION GOES-E GOES-W Hem US NE NE SE MW CPIn SPIn NW SW WCan ECan

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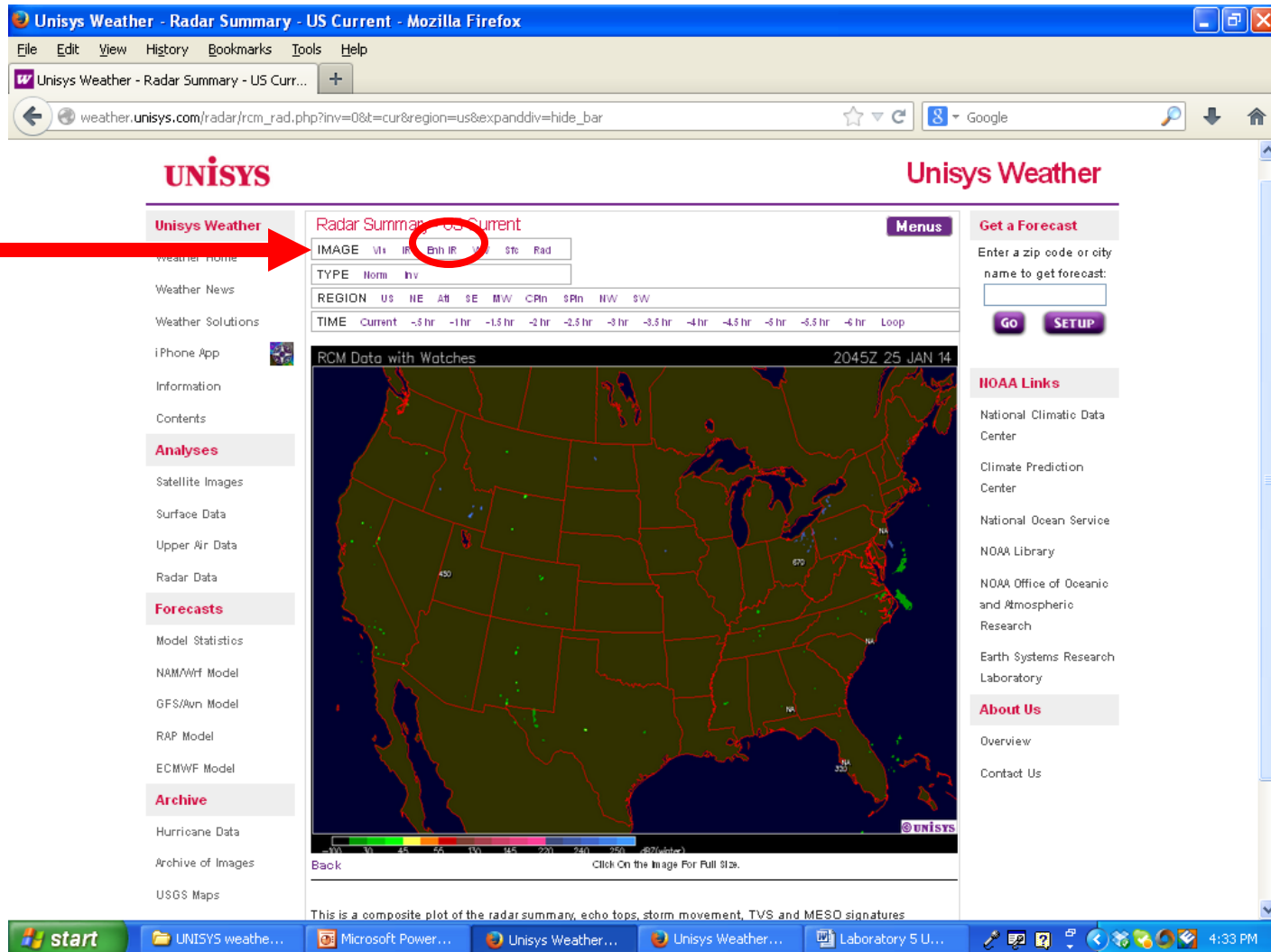
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Laboratory 5 Fig 5.4



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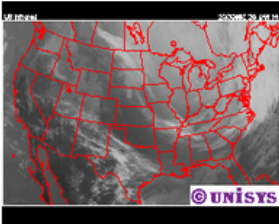
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Satellite Images



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Current US Infrared Image

These images are generated by geostationary satellites orbiting 22,000 miles above the equator looking at the United States. These include visible, infrared and water vapor images. The images are updated once an hour at about 30 after the hour.

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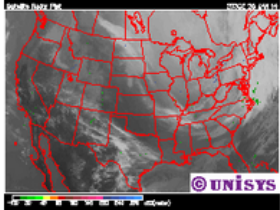
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Composite Satellite Images



Current US satellite and radar image

There are two images, one with a radar and surface map overlaid on the satellite image and another with just the radar summary.

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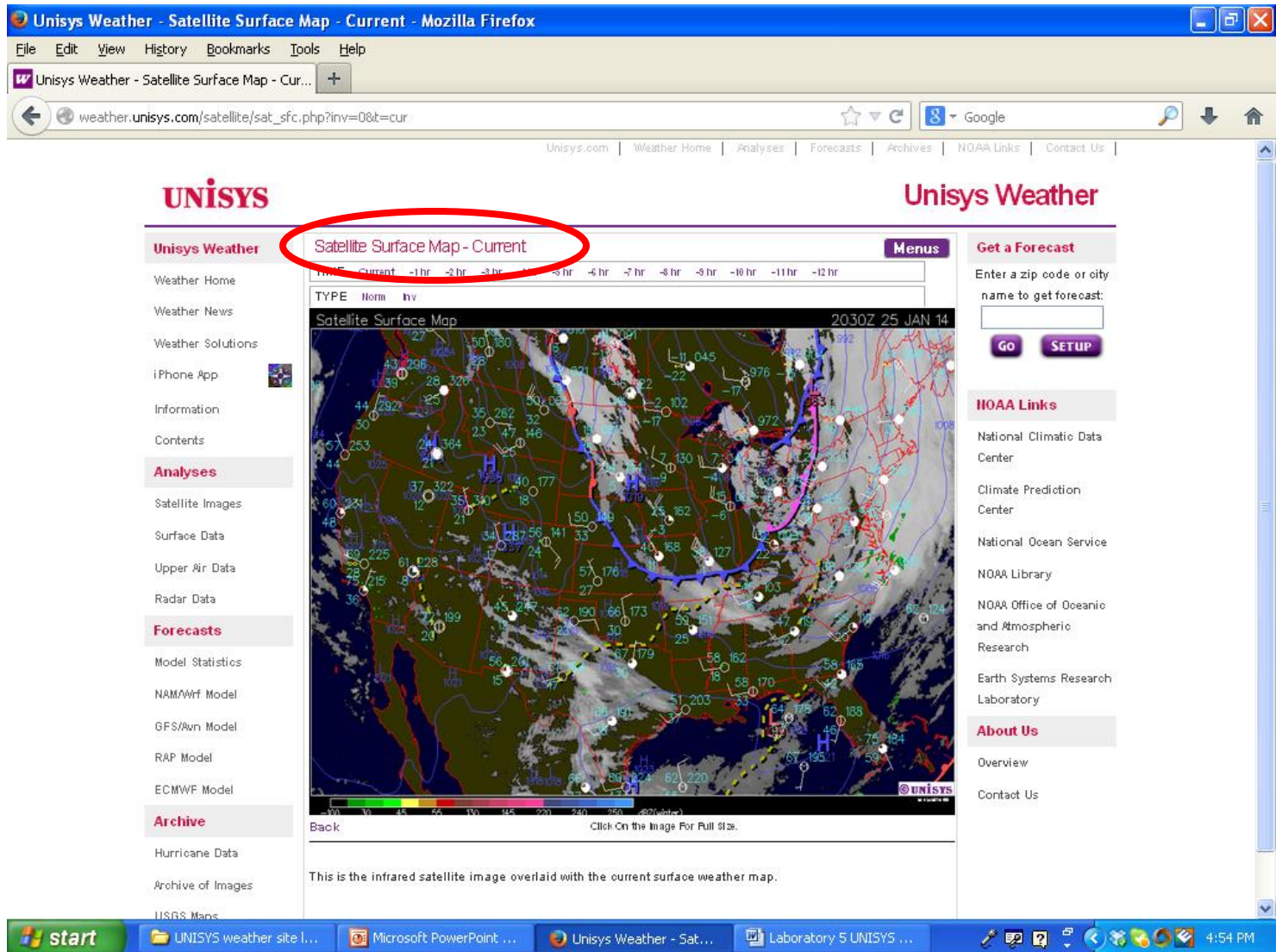
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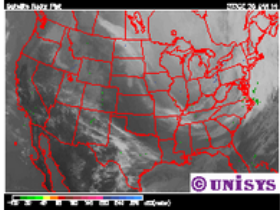
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Current US satellite and radar image

There are two images, one with a radar and surface map overlaid on the satellite image and another with just the radar summary.

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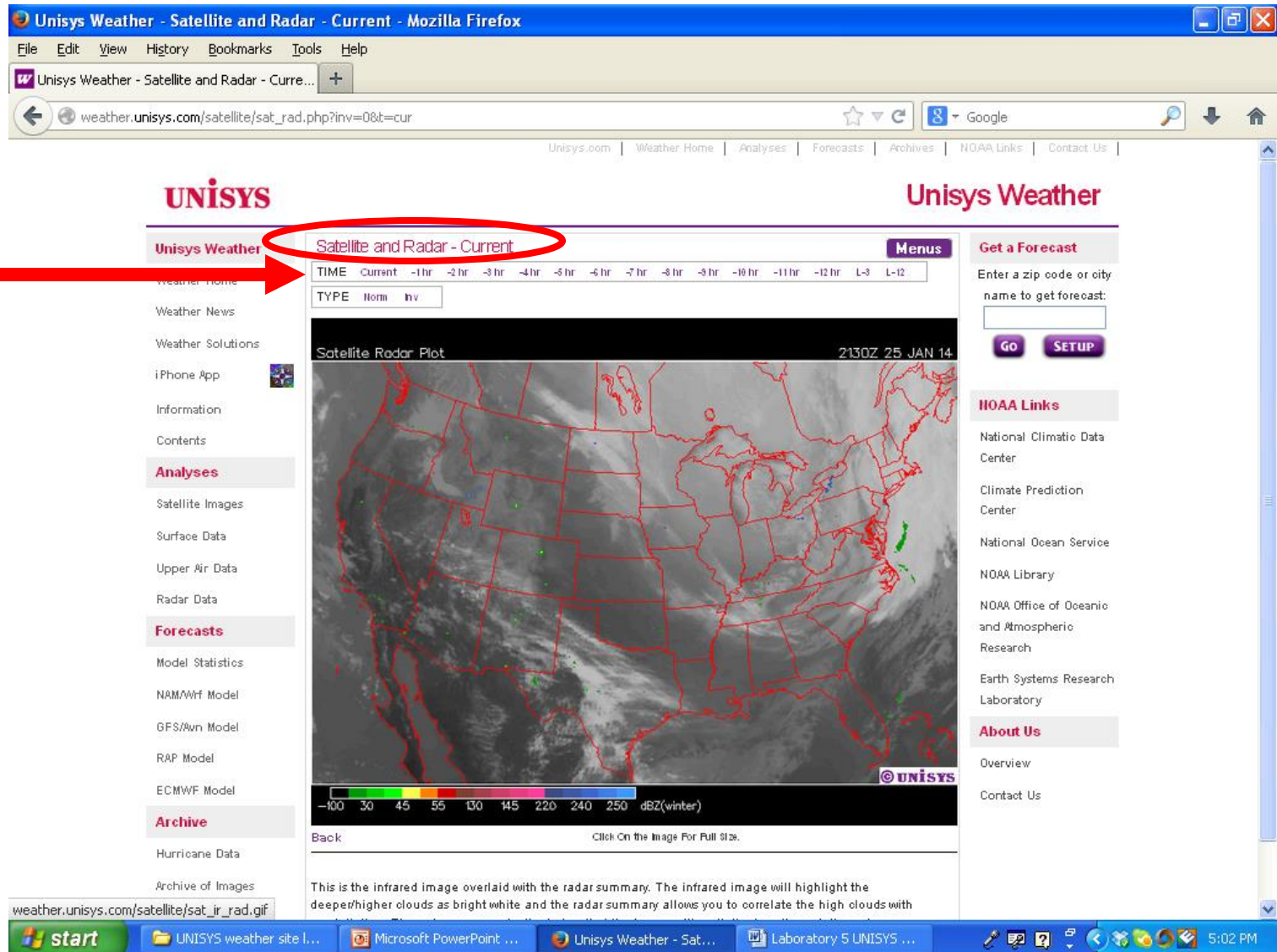
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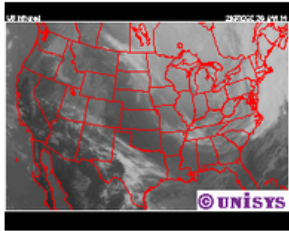
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Satellite Images



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Current US infrared image

These images are generated by geostationary satellites orbiting 22,000 miles above the equator looking at the United States. These include visible, infrared and water vapor images. The images are updated once an hour at about 30 after the hour.

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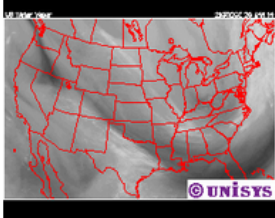
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Water Vapor Satellite Images



Current US water vapor image

This is image taken from an infrared band which return an integrated amount of water vapor of the top third of the tropopause. Moist areas show up as white dry areas as black.

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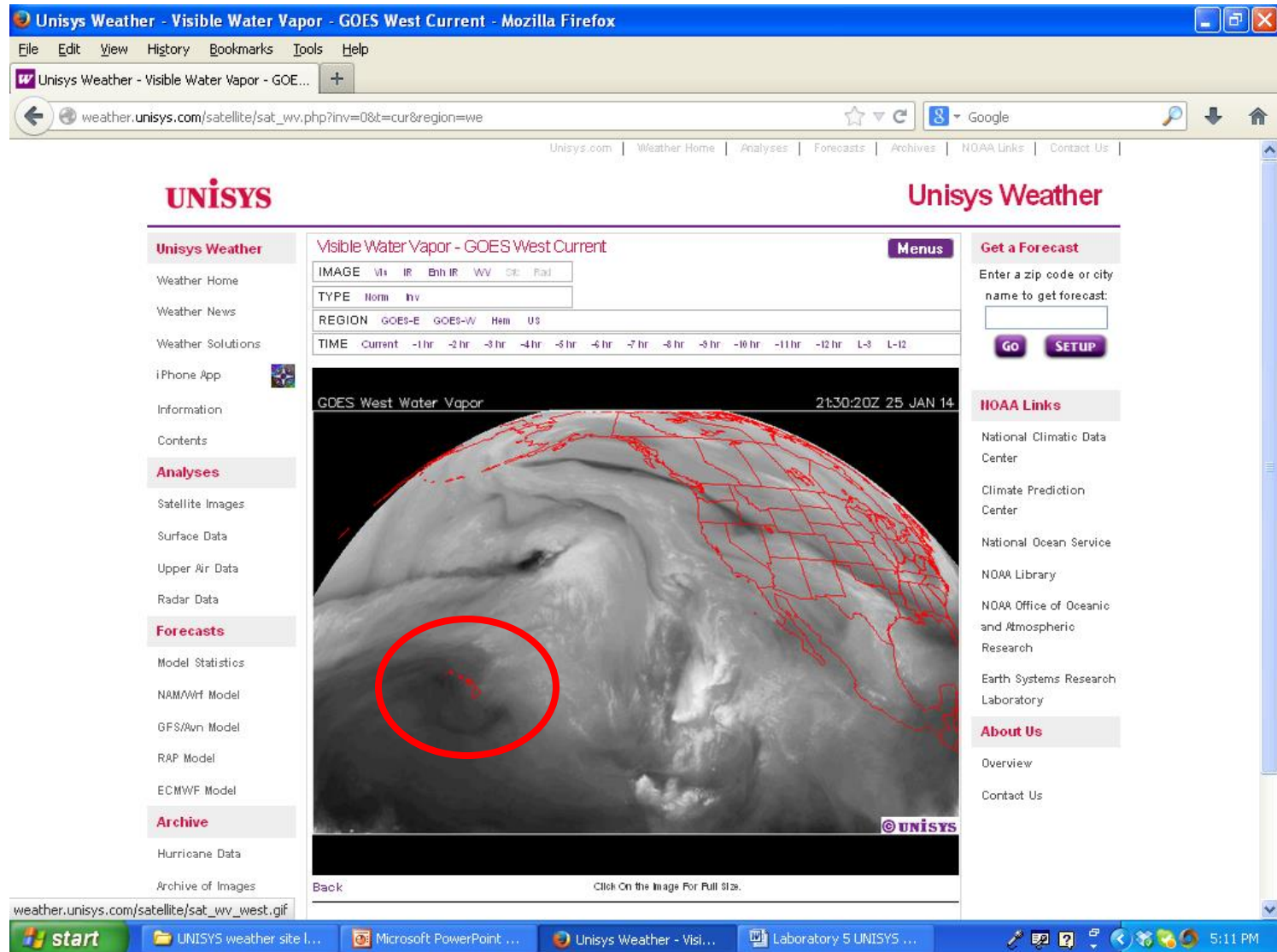
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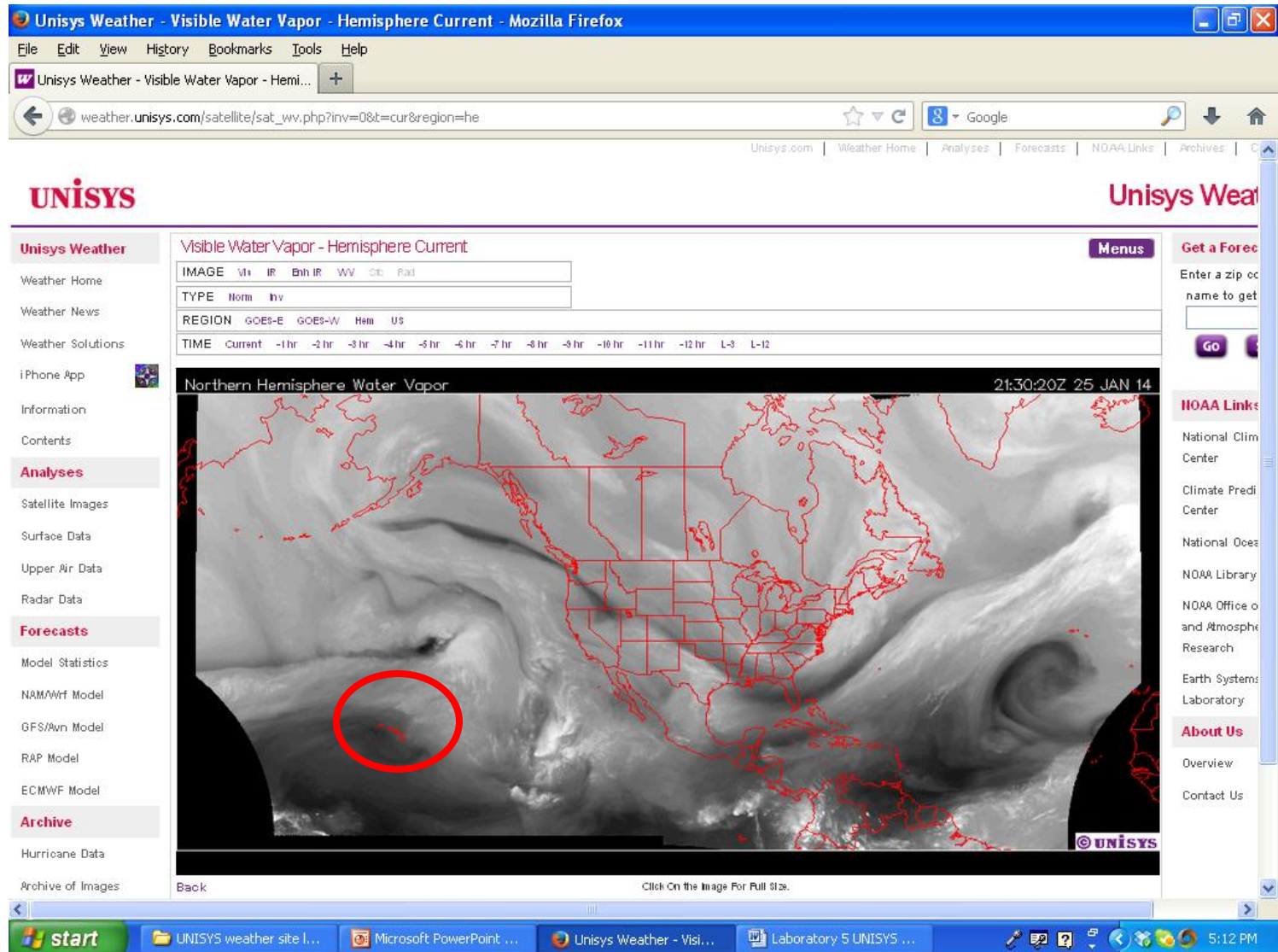
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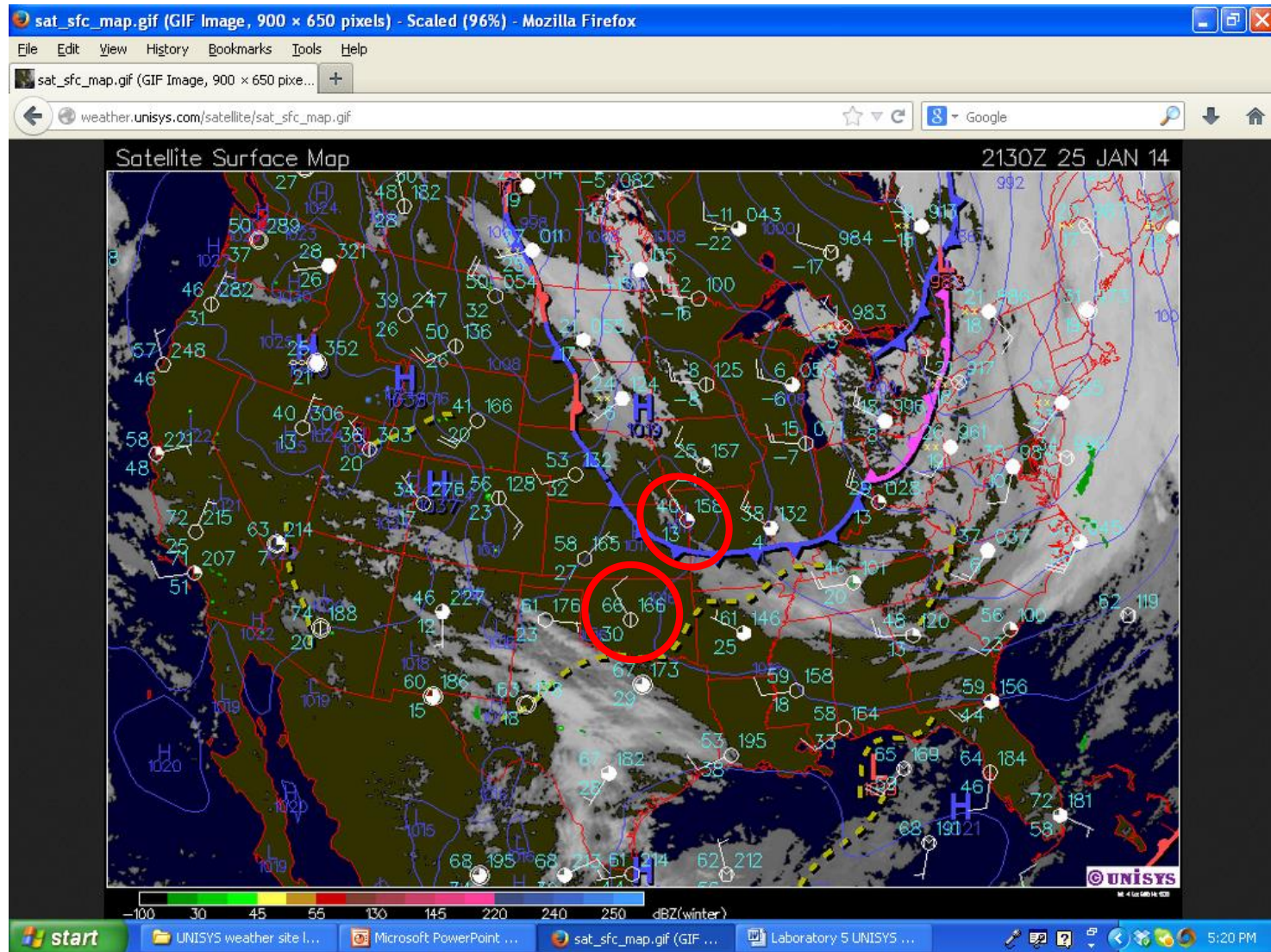
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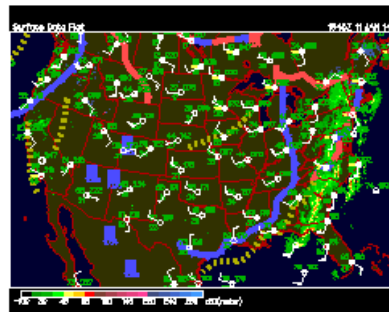
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Current surface map

Surface data is reported hourly from places like airports and automated observing platforms. The types of plots using surface data include a composite surface map, weather depiction for aviation, regional plots for the US, Canada, Mexico and Alaska. Contoured analyses of various parameters including temperature and pressure. Finally, there are meteograms which are time cross-sections for individual cities. These data are updated hourly at around 30 minutes past the hour.

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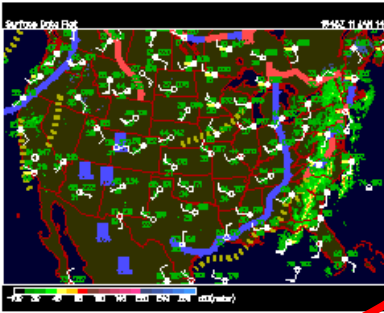
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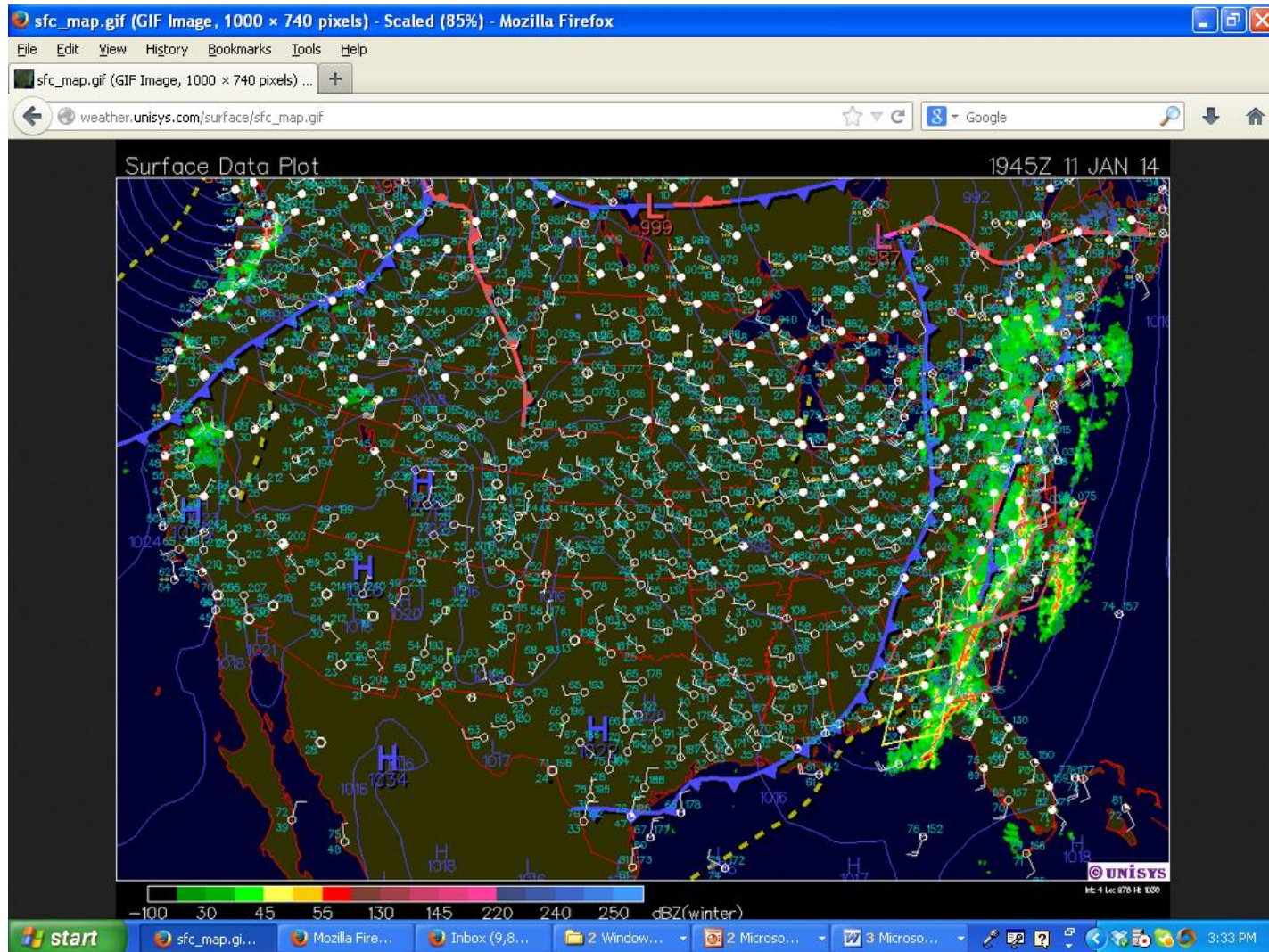
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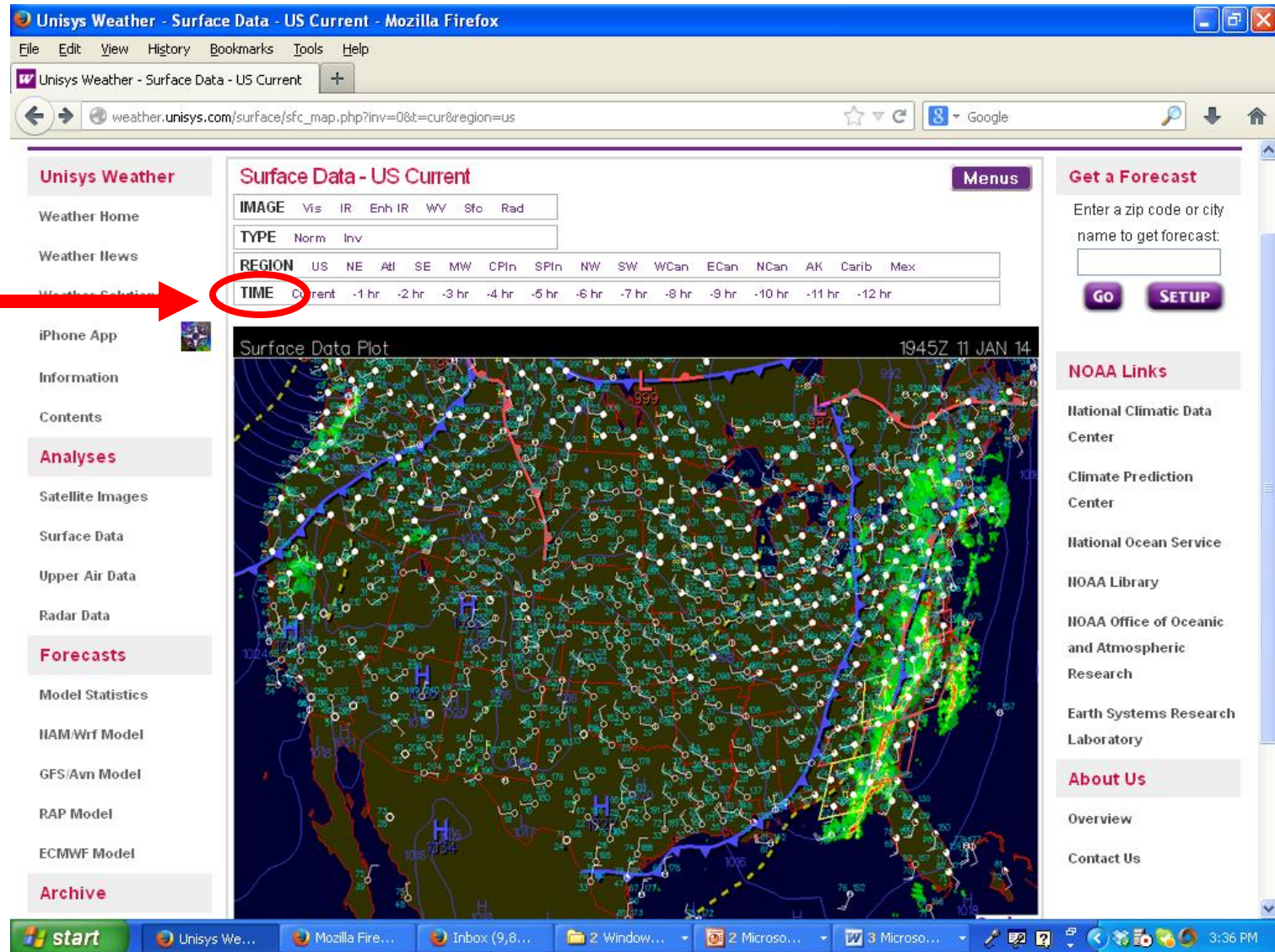
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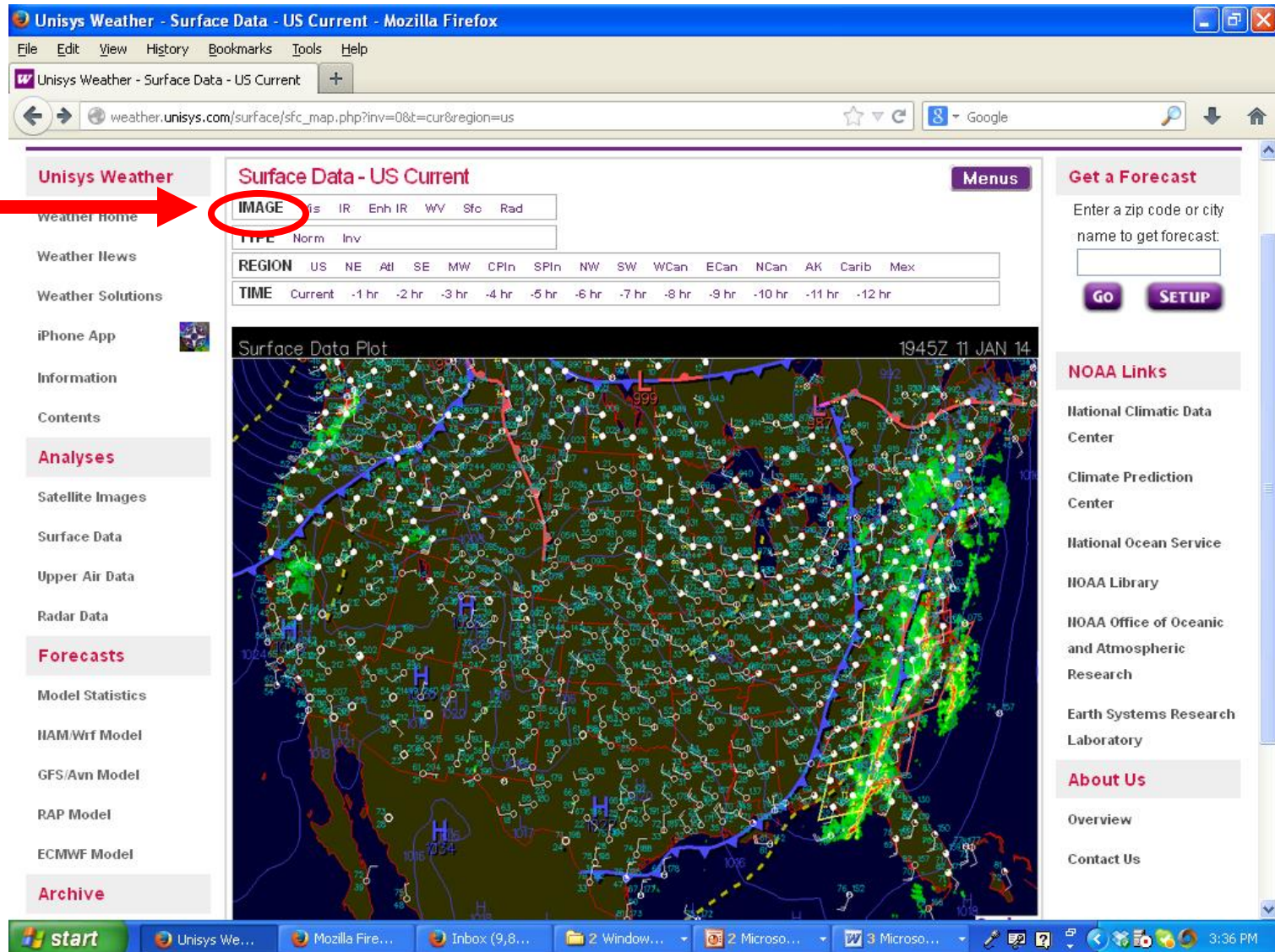
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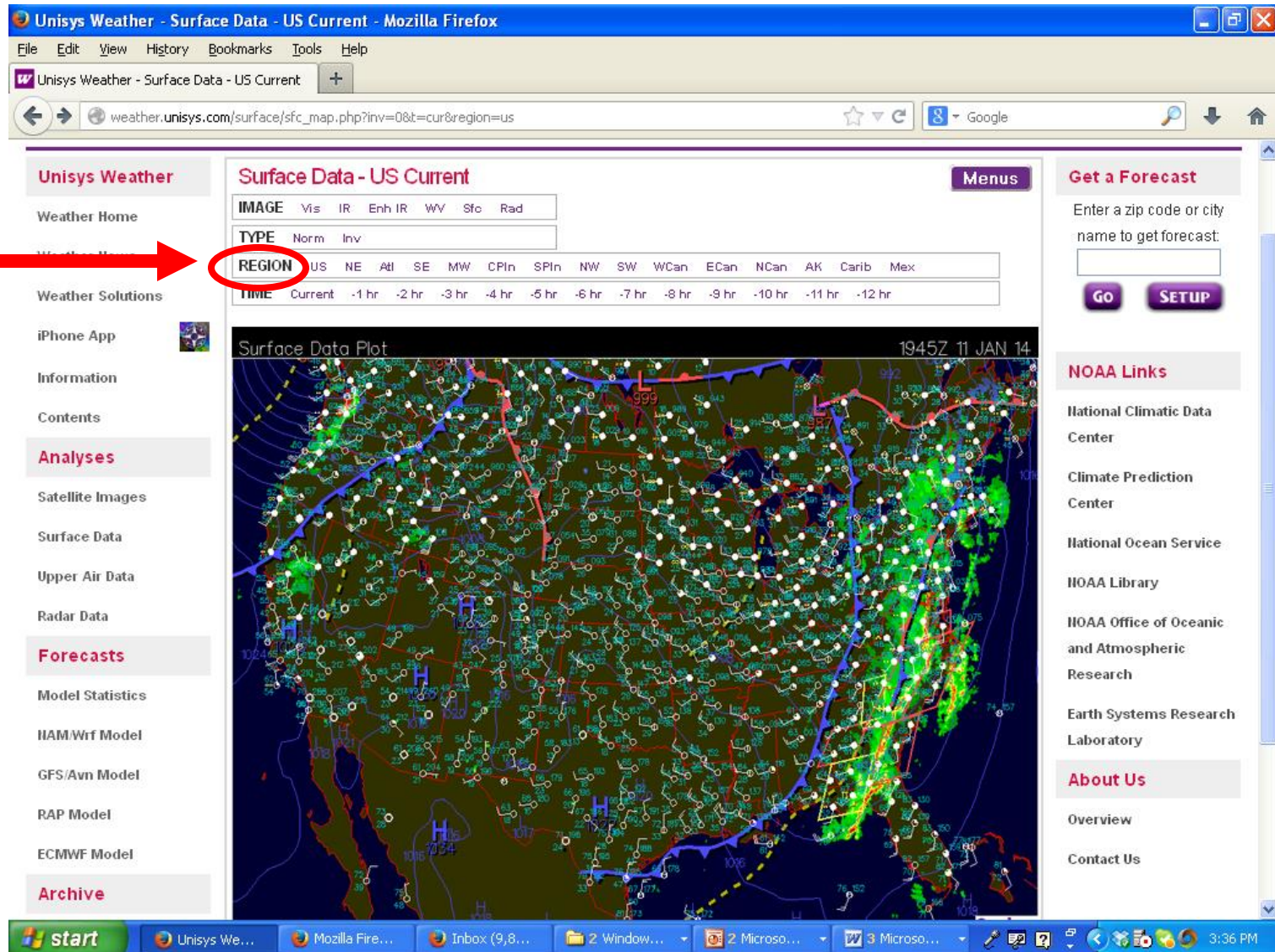
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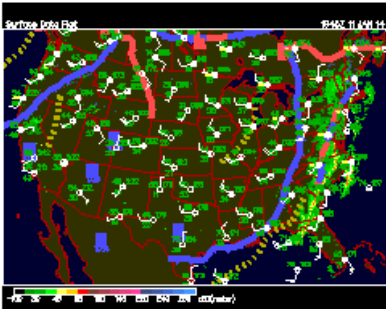
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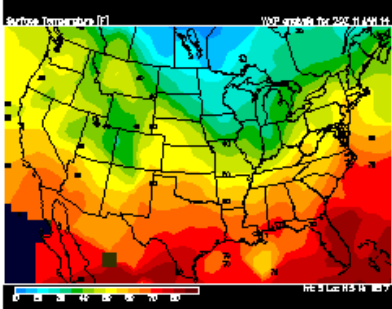
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Surface Contour Plots



Current temperature contour

US Temperature Contour

Contour plot of temperatures (F) for the contiguous US.

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North American Temperature Contour

Contour plot of temperatures (F) for North America.

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24 hour Temperature Change

Contour plot of the temperature change from current hour to the same hour the previous day for the contiguous US.

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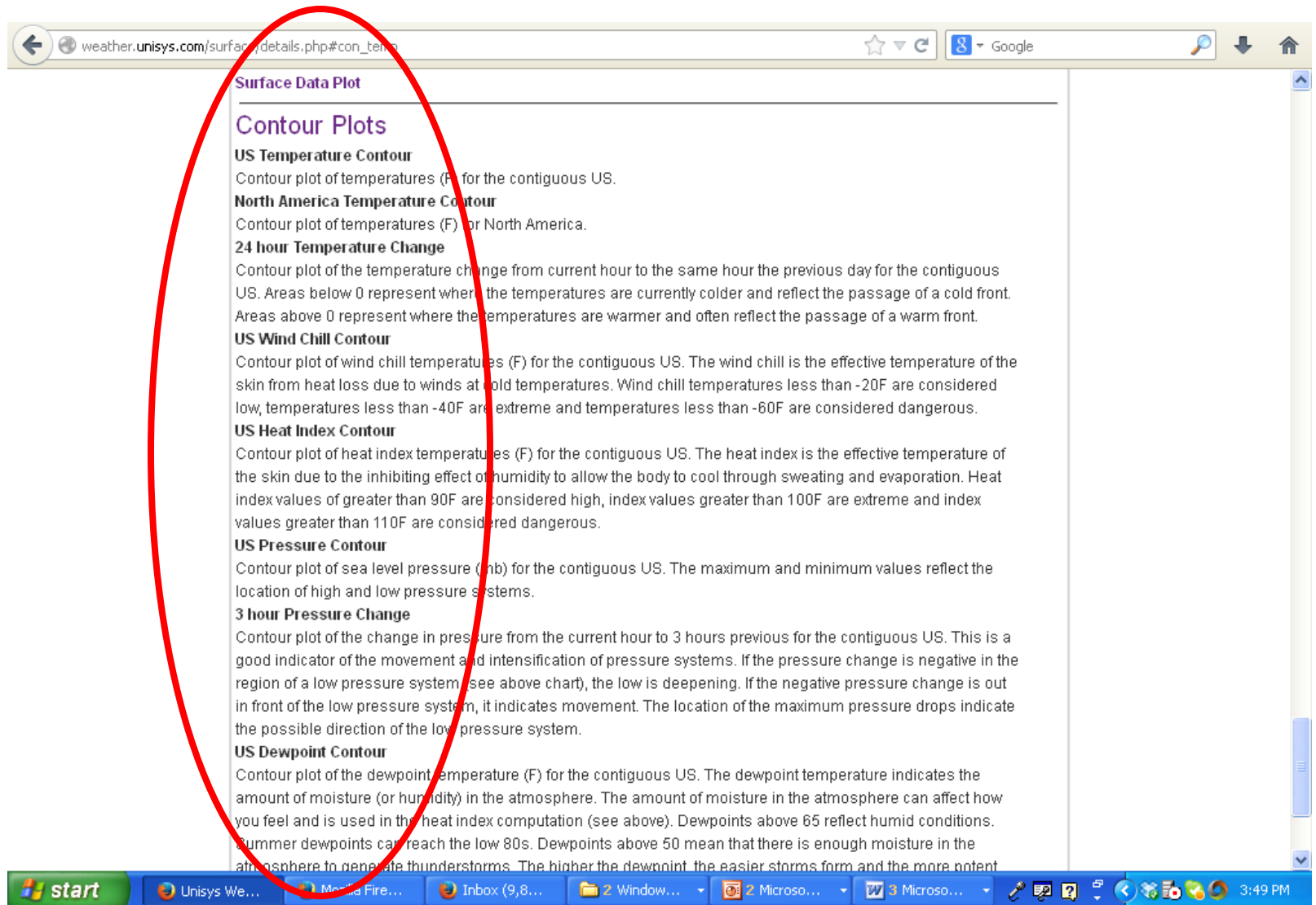
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Laboratory 6 Fig 6.10



The screenshot shows a web browser window with the address bar displaying weather.unisys.com/surface/details.php#con_tem. The page title is "Surface Data Plot". The main content area is titled "Contour Plots" and lists several weather-related contour plots for the contiguous US. A red oval highlights the "Contour Plots" section.

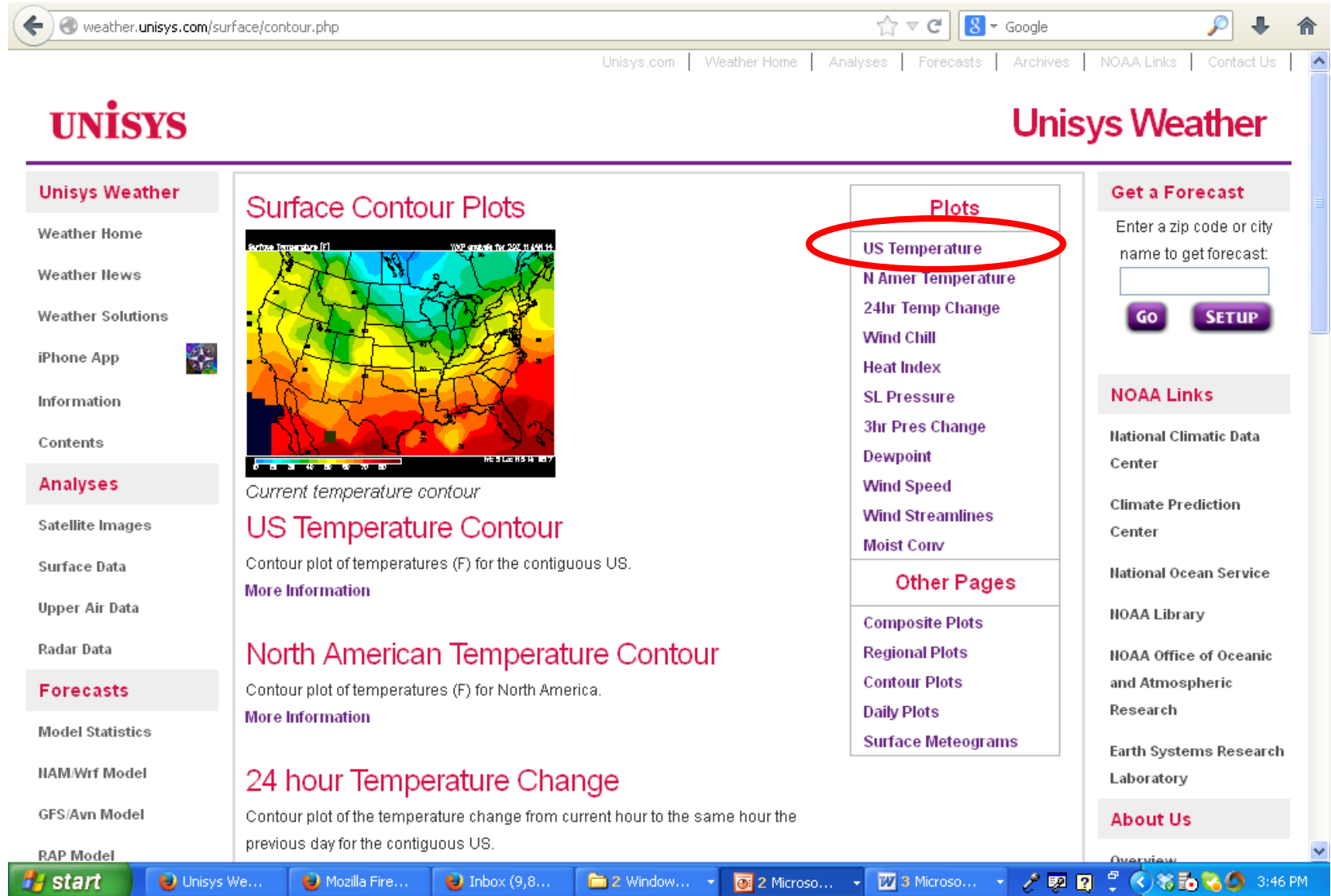
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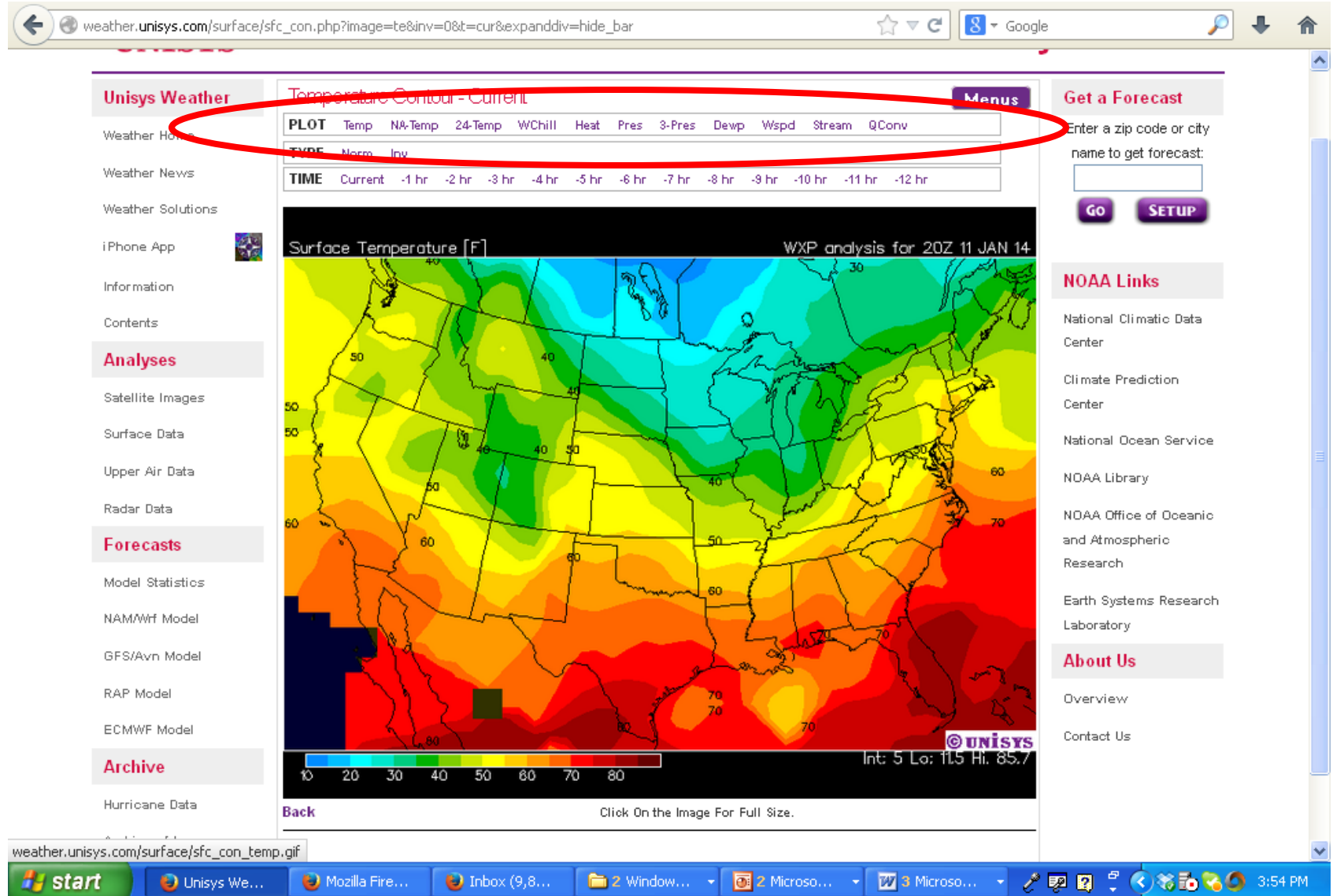
- US Temperature Contour**
Contour plot of temperatures (F) for the contiguous US.
- North America Temperature Contour**
Contour plot of temperatures (F) for North America.
- 24 hour Temperature Change**
Contour plot of the temperature change from current hour to the same hour the previous day for the contiguous US. Areas below 0 represent where the temperatures are currently colder and reflect the passage of a cold front. Areas above 0 represent where the temperatures are warmer and often reflect the passage of a warm front.
- US Wind Chill Contour**
Contour plot of wind chill temperatures (F) for the contiguous US. The wind chill is the effective temperature of the skin from heat loss due to winds at cold temperatures. Wind chill temperatures less than -20F are considered low, temperatures less than -40F are extreme and temperatures less than -60F are considered dangerous.
- US Heat Index Contour**
Contour plot of heat index temperatures (F) for the contiguous US. The heat index is the effective temperature of the skin due to the inhibiting effect of humidity to allow the body to cool through sweating and evaporation. Heat index values of greater than 90F are considered high, index values greater than 100F are extreme and index values greater than 110F are considered dangerous.
- US Pressure Contour**
Contour plot of sea level pressure (mb) for the contiguous US. The maximum and minimum values reflect the location of high and low pressure systems.
- 3 hour Pressure Change**
Contour plot of the change in pressure from the current hour to 3 hours previous for the contiguous US. This is a good indicator of the movement and intensification of pressure systems. If the pressure change is negative in the region of a low pressure system (see above chart), the low is deepening. If the negative pressure change is out in front of the low pressure system, it indicates movement. The location of the maximum pressure drops indicate the possible direction of the low pressure system.
- US Dewpoint Contour**
Contour plot of the dewpoint temperature (F) for the contiguous US. The dewpoint temperature indicates the amount of moisture (or humidity) in the atmosphere. The amount of moisture in the atmosphere can affect how you feel and is used in the heat index computation (see above). Dewpoints above 65 reflect humid conditions. Summer dewpoints can reach the low 80s. Dewpoints above 50 mean that there is enough moisture in the atmosphere to generate thunderstorms. The higher the dewpoint the easier storms form and the more potent

The Windows taskbar at the bottom shows the Start button and several open applications: Unisys We..., Mozilla Fire..., Inbox (9,8..., 2 Window..., 2 Microso..., and 3 Microso... The system clock shows 3:49 PM.

Laboratory 6 Fig 6.11



Laboratory 6 Fig 6.12



Laboratory 7 Fig 7.1