

# Satellite video shows movement of major US winter storm

February 12 2014

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This visible image of the winter storm over the US south and East Coast was taken by NOAA's GOES-13 satellite on Feb. 12 at 1855 UTC/1:55 p.m. EST. Snow covered ground can be seen over the Great Lakes region and Ohio Valley. Credit: NASA/NOAA GOES Project

A new NASA video of NOAA's GOES satellite imagery shows three days of movement of the massive winter storm that stretches from the southern U.S. to the northeast.

Visible and infrared imagery from NOAA's GOES-East or GOES-13 satellite from Feb. 10 at 1815 UTC/1:15 p.m. EST to Feb. 12 to 1845 UTC/1:45 p.m. EST were compiled into a video made by NASA/NOAA's GOES Project at NASA's Goddard Space Flight Center in Greenbelt, Md.

In the video, viewers can see the development and movement of the clouds associated with the progression of the frontal system and related low pressure areas that make up the massive storm. The video also shows the snow covered ground over the Great Lakes region and Ohio Valley that stretches to northern New England. The clouds and fallen snow data from NOAA's GOES-East satellite were overlaid on a true-color image of land and ocean created by data from the Moderate Resolution Imaging Spectroradiometer or MODIS instrument that flies aboard NASA's Aqua and Terra satellites.

On February 12 at 10 a.m. EST, NOAA's National Weather Service or NWS continued to issue watches and warnings from Texas to New England. Specifically, NWS cited Winter Storm Warnings and Winter Weather Advisories were in effect from eastern Texas eastward across the interior section of southeastern U.S. states and across much of the eastern seaboard including the Appalachians. Winter storm watches are in effect for portions of northern New England as well as along the western slopes of northern and central Appalachians. For updates on local forecasts, watches and warnings, visit NOAA's <http://www.weather.gov> webpage.

OAA's Weather Prediction Center or WPC noted the storm is expected to bring "freezing rain spreading into the Carolinas, significant snow

accumulations are expected in the interior Mid-Atlantic states tonight into Thursday and ice storm warnings and freezing rain advisories are in effect across much of central Georgia.

GOES satellites provide the kind of continuous monitoring necessary for intensive data analysis. Geostationary describes an orbit in which a satellite is always in the same position with respect to the rotating Earth. This allows GOES to hover continuously over one position on Earth's surface, appearing stationary. As a result, GOES provide a constant vigil for the atmospheric "triggers" for severe weather conditions such as tornadoes, flash floods, hail storms and hurricanes.

Provided by NASA's Goddard Space Flight Center

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