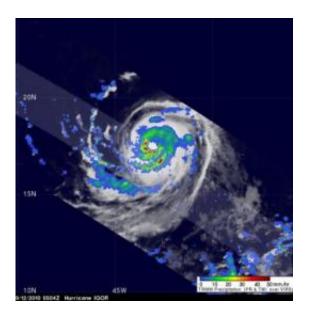


Igor now a Category 4 hurricane with icy cloud tops and heavy rainfall

September 13 2010



TRMM on Sept. 12 at 0504 UTC (1:04 a.m. EDT) captured an image of Hurricane Igor's rainfall, and there was a lot of heavy rain falling (red) at over 2 inches per hour. Credit: NASA/SSAI, Hal Pierce

NASA Satellites have noticed two distinct features in Igor that both indicate how powerful he has become, icy cold, high cloud tops and very heavy rainfall. NASA's Aqua and TRMM satellites have provided that insight to forecasters who are predicting Igor's next move as a powerful Category 4 Hurricane.

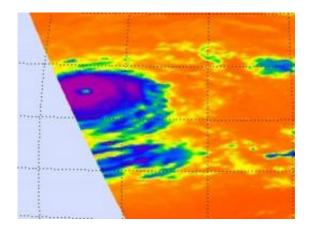
Last week, Igor was a tropical storm who faded into a tropical depression



. The National Hurricane Center had forecast that over the weekend Igor would approach more favorable conditions (low wind shear and warm <u>sea surface temperatures</u>) causing it to strengthen into a hurricane and it did. Tropical storm Igor was upgraded by the National Hurricane Center (NHC) in Miami, Florida to a hurricane on Sunday, September 12 at 0300 UTC (Sept. 11 at 11 p.m. EDT).

The <u>Tropical Rainfall</u> Measuring Mission (TRMM) satellite, which is operated jointly by NASA and the Japanese Space Agency, JAXA captured a good look at Igor a few hours after it reached hurricane status. TRMM passed over Igor and captured his rainfall rates at 0504UTC (1:04 a.m. EDT). The TRMM Precipitation Radar (PR) and TRMM Microwave Imager (TMI) instruments revealed that Igor had a well defined circular eye containing bands of <u>heavy rainfall</u> (falling at a rate of as much as 2 inches per hour).

NASA's Aqua satellite captured an infrared image of Hurricane Igor on Sept. 12 at 15:53 UTC (1:53 p.m. EDT). At that time it showed strong convection and powerful thunderstorms around its center with cold cloud top temperatures between -76F to -94 Fahrenheit (-60 Celsius to -70 Celsius)! Igor's eye was also clearly seen in the infrared image.



NASA's Aqua satellite captured an infrared image of Hurricane Igor on Sept. 12



at 15:53 UTC (1:53 p.m. EDT). At that time it showed strong convection and powerful thunderstorms around its center (purple) with cold cloud top temperatures between -76F to -94 Fahrenheit! Igor's eye is also clearly seen in this infrared image. Credit: NASA/JPL, Ed Olsen

On Sept. 13 at 11 a.m. EDT, Igor had <u>maximum sustained winds</u> near 150 mph and was a Category 4 hurricane on the Saffir-Simpson scale. The center of Hurricane Igor was located 880 miles east of the Northern Leeward Islands near latitude 17.5 north and longitude 49.7 west. Igor is moving toward the west near 10 mph and a turn toward the west-northwest is expected tonight or tomorrow. Estimated minimum central pressure is 933 millibars.

Igor is expected to remain a major <u>hurricane</u> for a couple of days.

Provided by NASA's Goddard Space Flight Center

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