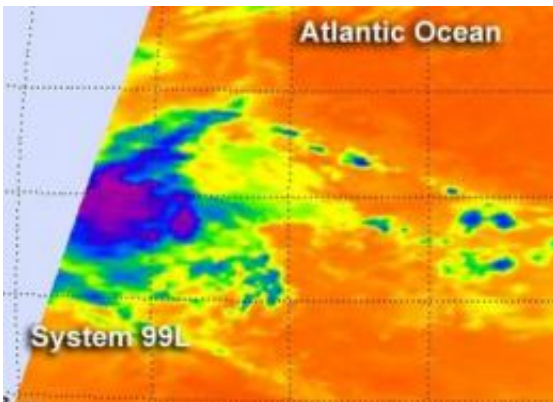


# NASA satellite sees strength in developing Atlantic tropical low

August 1 2012

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NASA's Aqua satellite passed over System 99L on Aug. 1 at 0405 UTC (12:05 a.m. EDT) and the Atmospheric Infrared Sounder or AIRS instrument captured an infrared image of the storm. It showed that there was a small area of strong, high, cold cloud tops of thunderstorms (purple) around the center of circulation, indicating some strength in the low pressure area. Credit: NASA JPL, Ed Olsen

NASA's Aqua satellite spotted some very cold, high, thunderstorms around the center of a tropical low pressure area in the Atlantic Ocean today, indicating that the system is getting stronger and more organized.

The low pressure area, designated as "System 99L" was located about 850 miles east of the southern Windward Islands, near 10.7 North latitude and 46.9 West longitude. It was moving west between 15 and 20 mph.

NASA's Aqua satellite passed over System 99L on August 1 at 0405 UTC (12:05 a.m. EDT) and the Atmospheric Infrared Sounder (AIRS) instrument captured an [infrared image](#) of the storm. It showed that there was a small area of strong, high, cold cloud tops of thunderstorms around the center of circulation, indicating some strength in the low pressure area. [Infrared imagery](#) shows temperature and the higher the cloud tops, the colder they are as they reach higher in the troposphere (lowest [atmospheric layer](#)). When cloud top temperatures are very cold, it's an indication of strong uplift in the atmosphere. The cloud top temperatures around the center of this low were near -63 Fahrenheit (-52 Celsius), and indicated powerful uplift and high cloud tops.

The National Hurricane Center noted that "environmental conditions are conducive for gradual development," and gives the storm a 70% chance of becoming a [tropical depression](#) in the next two days. Residents in the Windward Islands should monitor the progress of System 99L.

If System 99L develops into a tropical storm, it would be named "Ernesto." The last tropical storm to form in the Atlantic Ocean this [hurricane season](#) was Debby, and she dissipated over a month ago, on June 28.

Provided by NASA's Goddard Space Flight Center

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