

# NASA sees Tropical Storm Kate form, Bahamas under warning

November 9 2015

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On Nov. 8, 2015 the MODIS instrument aboard NASA's Terra satellite captured this image of newborn Tropical Depression 12 in the western Atlantic. Credit: NASA Goddard MODIS Rapid Response Team

NASA's Terra satellite saw the Atlantic Ocean's twelfth tropical depression as it was forming, and an animation of NOAA's GOES-East satellite data showed its development into Tropical Storm Kate near the Bahamas.

On November 9, 2015 a Tropical Storm Warning was in effect for the central and northwestern Bahamas.

On Nov. 8, 2015 the Moderate Resolution Imaging Spectroradiometer or MODIS instrument aboard NASA's Terra [satellite](#) captured a visible image of newborn Tropical Depression 12 in the western Atlantic. Kate formed as a [tropical depression](#) at 10 p.m. EST on Nov. 8 about 115 miles (190 km) southeast of San Salvador.

At 8:20 a.m. EST, Air Force Reserve hurricane hunter aircraft data indicated that Tropical Depression Twelve has strengthened to Tropical Storm Kate. The [maximum sustained winds](#) at that time were estimated to be 40 mph (65 kph) with higher gusts.

A 43 second animation of infrared and visible imagery from NOAA's GOES-East satellite over the period of satellite from Nov. 7 to 9 shows the development and movement of Tropical Storm Kate to the Bahamas. The animation was created by the NASA/NOAA GOES Project at NASA Goddard.

At 10 a.m. EST (1500 UTC) on November 9, 2015 the center of Tropical Storm Kate was located near latitude 24.5 North, longitude 75.3 West. That's just 15 miles (25 km) east-northeast of Cat Island an about 170 miles (275 km) southeast of Great Abaco Island.

Kate was moving toward the northwest near 15 mph (24 kph). The National Hurricane Center (NHC) expects Kate to turn toward the north, followed by a turn toward the north-northeast on Tuesday, November 10.

Maximum sustained winds had increased to near 45 mph (75 kph) and additional strengthening is forecast during the next two days. The estimated minimum central pressure based on data from an Air Force Reserve reconnaissance aircraft is 1008 millibars.

Because the central and northwestern Bahamas are under a [tropical storm](#) warning, the National Hurricane Center said total rain accumulations of 1 to 3 inches over the Bahamas through tonight, November 3.

Provided by NASA's Goddard Space Flight Center

Citation: NASA sees Tropical Storm Kate form, Bahamas under warning (2015, November 9) retrieved 10 May 2024 from <https://phys.org/news/2015-11-nasa-tropical-storm-kate-bahamas.html>

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