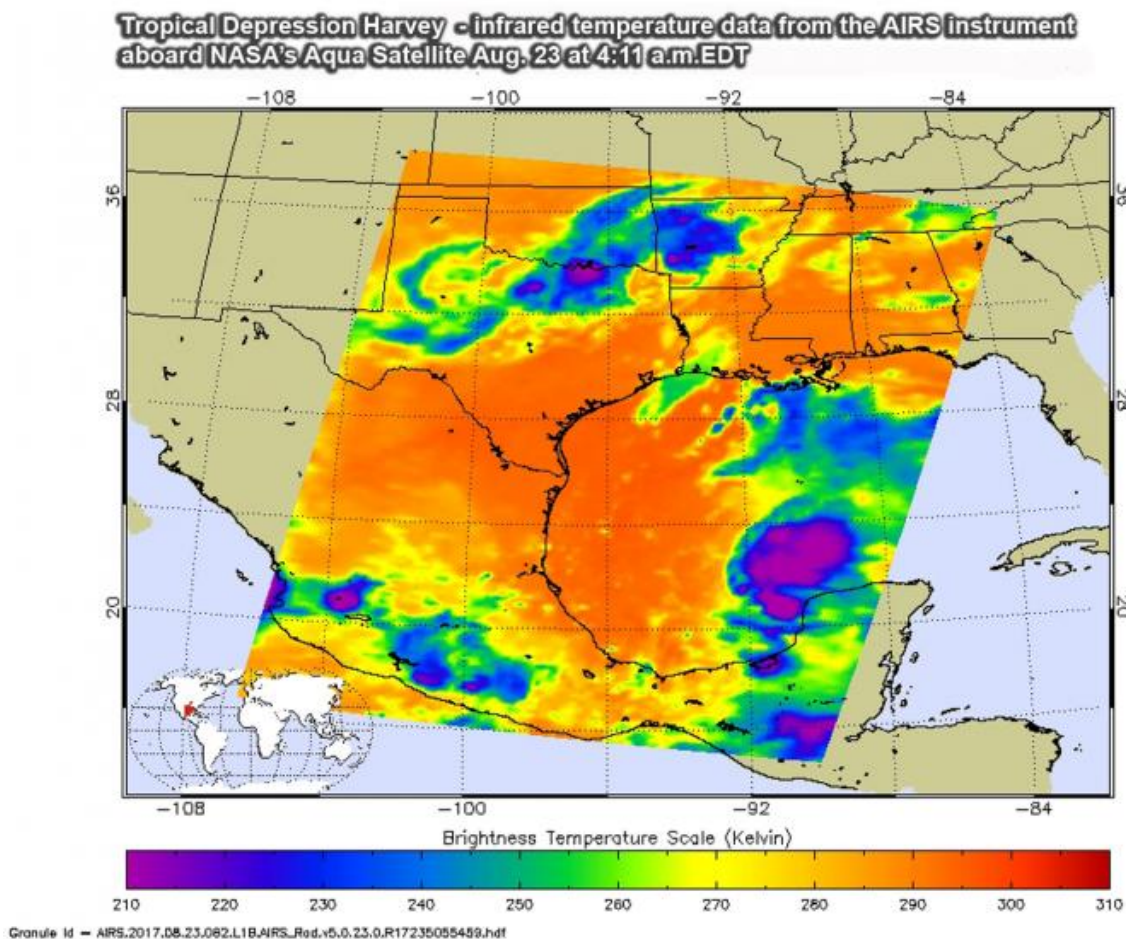


# NASA sees Tropical Depression Harvey's rebirth

August 23 2017



NASA's Aqua satellite analyzed Harvey in infrared light on Aug. 23 at 4:11 a.m. EDT (0811 UTC) and found coldest temperatures and strongest storms around the center (purple). Credit: NASA JPL/Ed Olsen

NASA's Aqua satellite provided an infrared look at the cloud top temperatures of newly reborn Tropical Depression Harvey.

At 11 a.m. EDT on Aug. 23, Harvey regenerated into a tropical depression in the Gulf of Mexico. The National Hurricane Center issued hurricane and storm surge watches for portions of the Texas coast as Harvey is expected to strengthen.

A Storm Surge Watch has been issued for the coast of Texas from Port Mansfield to High Island. A Hurricane Watch has been issued for the coast of Texas from north of Port Mansfield to San Luis Pass. A Tropical Storm Watch has been issued for the coast of Texas from the Mouth of the Rio Grande to Port Mansfield and from north of San Luis Pass to High Island.

The Atmospheric Infrared Sounder or AIRS instrument that flies aboard NASA's Aqua satellite analyzed Harvey in infrared light on Aug. 23 at 4:11 a.m. EDT (0811 UTC). AIRS data showed Harvey's cloud pattern was still not well-organized and the cloud pattern is asymmetric. There were however, some strong thunderstorms within with very cold cloud top temperatures. Some of the coldest cloud top temperatures exceeded minus 63 degrees Fahrenheit (minus 53 degrees Celsius). Storms with temperatures that cold are high in the troposphere and NASA research has shown they have the ability to generate heavy rain.

That heavy rain is in the forecast for Texas and Louisiana, according to the National Hurricane Center (NHC). NHC noted "Harvey is expected to produce total rain accumulations of 10 to 15 inches with isolated maximum amounts of 20 inches over the middle and upper Texas coast and southwest Louisiana through next Tuesday, with heavy rainfall beginning as early as Friday morning, Aug. 25."

The National Hurricane Center (NHC) noted at 11 a.m. EDT (1500

UTC), the center of Tropical Depression Harvey was located near 21.5 degrees north latitude and 92.5 degrees west longitude. That's about 470 miles (755 km) southeast of Port Mansfield, Texas.

The depression was moving toward the northwest near 9 mph (15 kph) and a track toward the northwest or north-northwest is expected for the next 48 hours. On the forecast track, Harvey should be approaching the Texas coast late Friday, Aug. 25. Maximum sustained winds are near 35 mph (55 km/h) with higher gusts. Some strengthening is forecast during the next 48 hours, and Harvey could become a [hurricane](#) on Friday.

Provided by NASA's Goddard Space Flight Center

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