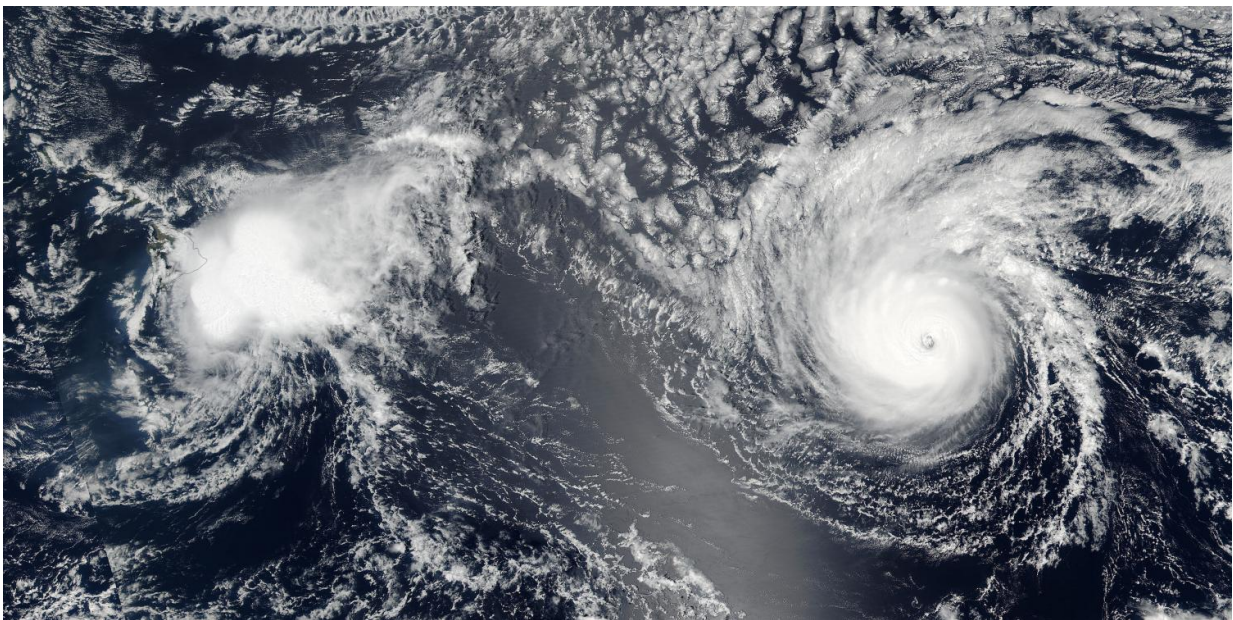


NASA sees a weaker Tropical Storm Madeline passing south of Hawaii's Big Island

September 1 2016



On Aug. 31 at 6:50 p.m. EDT (22:50 UTC) the VIIRS instrument aboard NASA-NOAA's Suomi NPP satellite saw a shapeless Tropical Storm Madeline approaching Hawaii. Credit: NASA Goddard MODIS Rapid Response Team/NOAA

Once a major hurricane, Madeline was a tropical storm that appeared shapeless on a visible satellite image as it was passing south of the big island of Hawaii. An infrared image showed the storm stretching from

southwest to northeast.

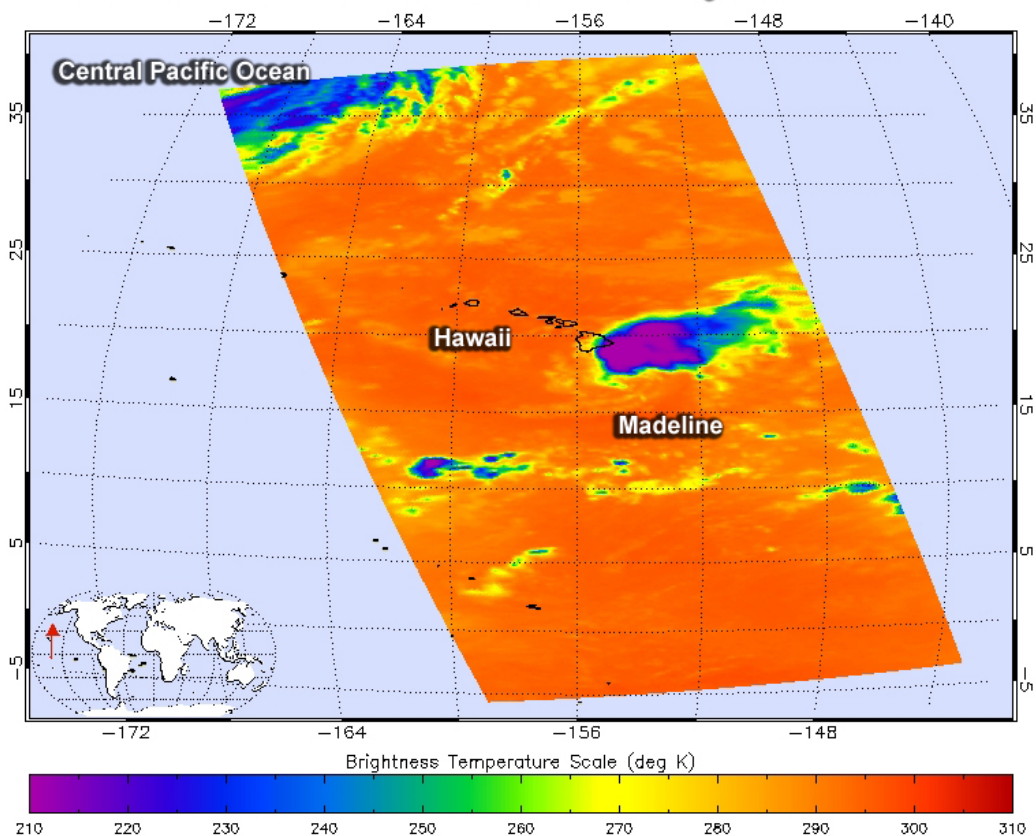
The Atmospheric Infrared Sounder or AIRS instrument aboard NASA's Aqua satellite provided an infrared look at Tropical Storm Madeline on Aug. 31 at 2341 UTC (7:41 p.m. EDT). Infrared data shows temperatures and the stronger storms with coldest cloud top temperatures were confined to the northeast quadrant of the circulation. Those strong storms were becoming more distanced from the storm's circulation center.

On Aug. 31 at 6:50 p.m. EDT (22:50 UTC) the Visible Infrared Imaging Radiometer Suite (VIIRS) instrument aboard NASA-NOAA's Suomi NPP satellite provided a visible image of Tropical Storm Madeline approaching Hawaii. In the image, Madeline appeared to be almost shapeless.

Madeline weakened to a [tropical storm](#) on Aug. 31 by 8 p.m. EDT (2 p.m. HST). At 11 p.m. EDT (5 p.m. HST) on Aug. 31 Madeline was passing just south of the Big Island of Hawaii as a tropical storm with [maximum sustained winds](#) near 65 mph (100 kph).

At 11 a.m. EDT (5 a.m. HST/1500 UTC), forecaster Birchard of NOAA's Central Pacific Hurricane Center (CPHC) noted "After a several hour period where Madeline had a rather ragged satellite presentation, a burst of deep convection developed near the center around midnight, and has since persisted with an abundance of lightning."

Tropical Storm Madeline on Aug. 31 at 2341 UTC (7:41 p.m. EDT)
Infrared data from the AIRS instrument aboard NASA's Aqua satellite.



Granule Id - AIRS.2016.D8.31.237.L1B.AIRS_Rad.v5.0.23.0.R16244202638.hdf

This infrared look at Tropical Storm Madeline on Aug. 31 at 2341 UTC (7:41 p.m. EDT) from the AIRS instrument aboard NASA's Aqua satellite shows that the stronger storms with coldest cloud top temperatures were in purple. Credit: NASA JPL, Ed Olsen

At that time the center of Tropical Storm Madeline was located near latitude 16.7 degrees north latitude and 157.0 degrees west longitude.

Madeline is moving toward the west near 14 mph (22 kph) and this general motion is expected to continue for the next couple of days. The estimated minimum central pressure is 1003 millibars. Maximum

sustained winds are near 50 mph (85 kph) with higher gusts. Some weakening is forecast during the next 48 hours, and Madeline is forecast to become a Tropical Depression by Friday, Sept. 1.

There are no coastal watches or warnings in effect in association with Madeline anymore in Hawaii. However, interests on Johnston Island should monitor the progress of Madeline.

For updated forecasts on Madeline, visit the CPHC website:

<http://www.prh.noaa.gov/cphc>

Provided by NASA's Goddard Space Flight Center

Citation: NASA sees a weaker Tropical Storm Madeline passing south of Hawaii's Big Island (2016, September 1) retrieved 18 April 2024 from <https://phys.org/news/2016-09-nasa-weaker-tropical-storm-madeline.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.