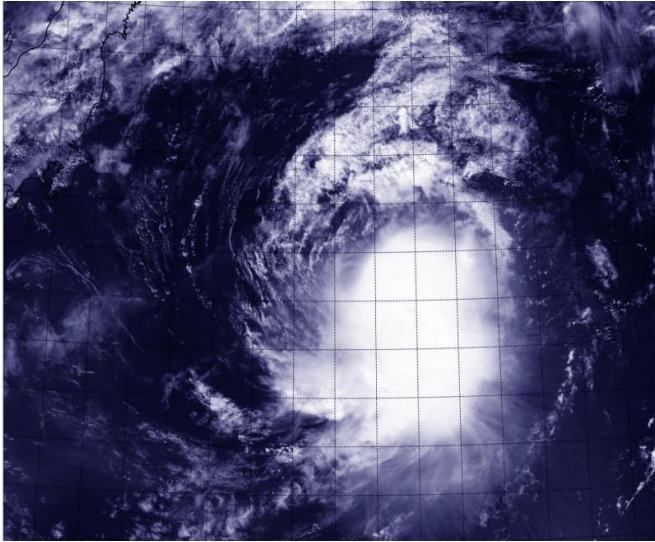


Suomi NPP satellite sees Molave on the move

12 August 2015



The VIIRS instrument aboard NASA-NOAA's Suomi satellite captured this visible picture of Tropical Storm Molave on Aug. 12 at 02:53 UTC. Credit: UW-CIMSS/NASA/NOAA

NASA-NOAA's Suomi NPP satellite flew over Tropical Storm Molave as it was moving away from Japan.

The Visible Infrared Imaging Radiometer Suite or VIIRS instrument aboard the satellite provided a [visible image](#) of the storm that showed the bulk of showers were southeast of the center of circulation. The clouds and thunderstorms were being pushed southeast by northwesterly wind shear between 10 and 20 knots/11.5 to 23.0 mph/18.5 to 37.0 kph. The Advanced Scatterometer (ASCAT) wind data showed that the strongest winds were in that same southeastern quadrant.

VIIRS is a scanning radiometer that collects visible and infrared imagery and "radiometric" measurements. Basically it means that VIIRS data

is used to measure cloud and aerosol properties, ocean color, sea and [land surface temperature](#), ice motion and temperature, fires, and Earth's albedo (reflected light).

On August 12, 2015 at 1500 UTC (11 a.m. EDT) Tropical Storm Molave had maximum sustained winds near 40 knots (46 mph/74 kph). It was centered near 33.8 North latitude and 149.9 East longitude, about 512 nautical miles east of Yokosuka, Japan. Molave was moving to the east at 13 knots (15 mph / 24 kph) and away from Japan.

Molave is moving east-northeast and forecasters at the Joint Typhoon Warning Center expect it to intensify a little to 50 knots because it will be tracking through [sea surface temperatures](#) near 26.6 Celsius (80 Fahrenheit). Molave is then expected to become extra-tropical south of Russia's Kamchatka Peninsula.

Provided by NASA's Goddard Space Flight Center

APA citation: Suomi NPP satellite sees Molave on the move (2015, August 12) retrieved 19 January 2021 from <https://phys.org/news/2015-08-suomi-npp-satellite-molave.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.