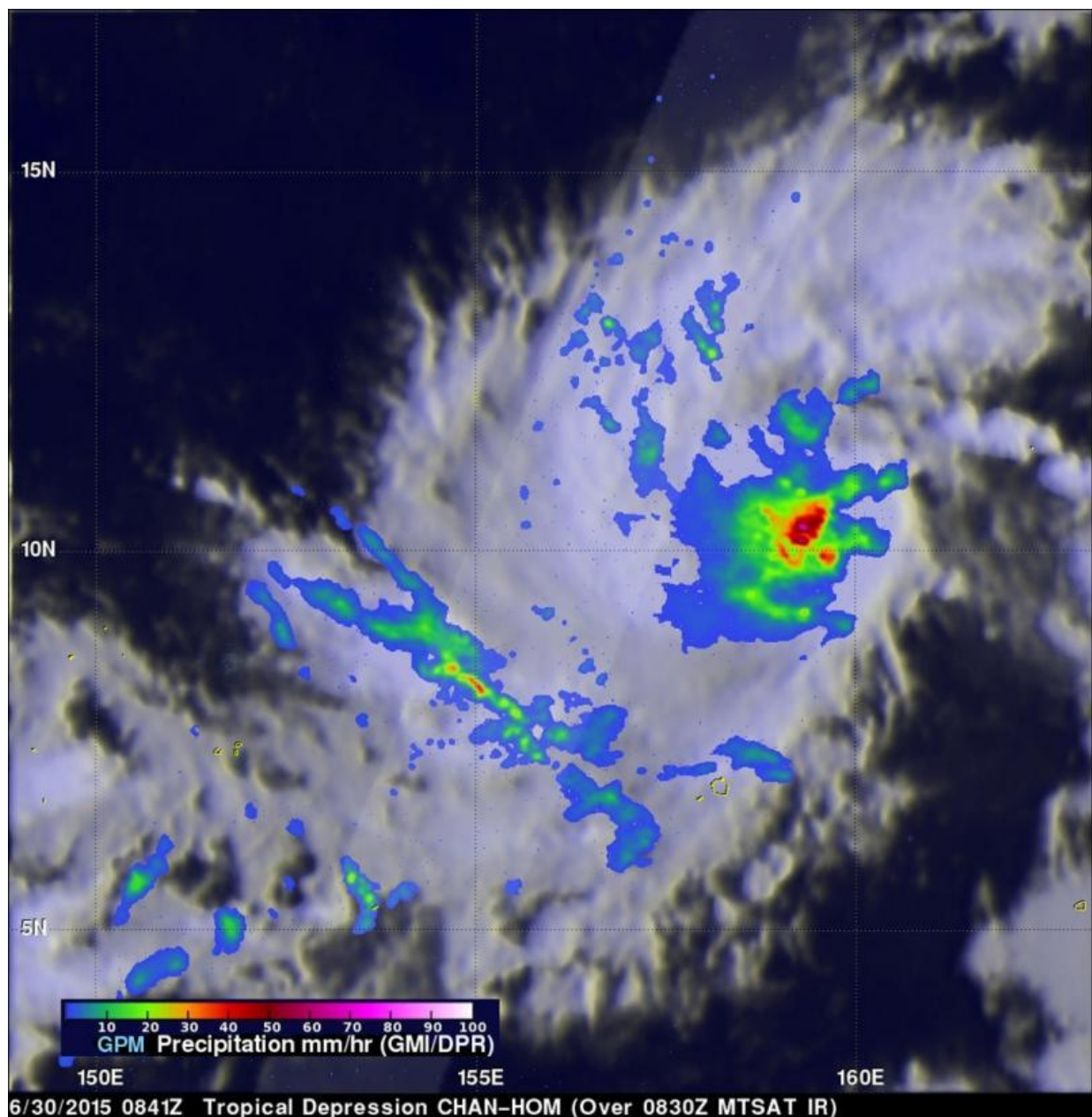


NASA sees heavy rain in Tropical Cyclone Chan-Hom

July 1 2015, by Hal Pierce



On June 30, NASA/JAXA's GPM satellite found that rain was falling at a rate of over 78 mm (about 3 inches) per hour near the center of the newly formed tropical cyclone. Credit: SSAI/NASA/JAXA, Hal Pierce

The Global Precipitation Measurement or GPM mission core satellite passed over Tropical Cyclone Chan-Hom and found heavy rainfall in the newborn storm.

The GPM core observatory satellite flew nearly above a newly formed tropical depression Chan-Hom (09W) on June 30, 2015 at 0841 (4:41 a.m. EDT). GPM's Microwave Imager (GMI) found that rain was falling at a rate of over 78 mm (about 3 inches) per hour near the center of the newly formed tropical cyclone.

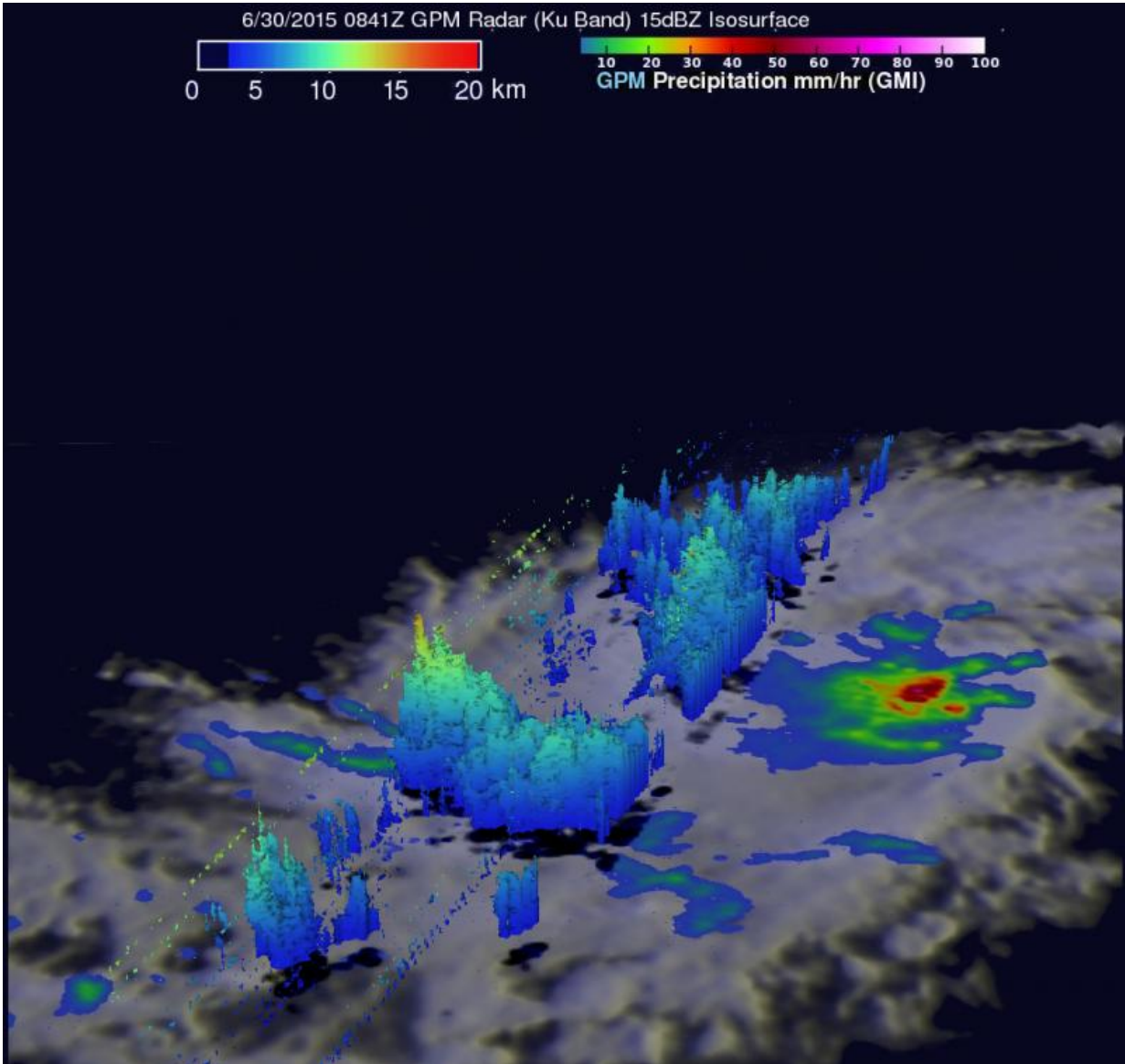
GPM's Dual-Frequency Precipitation Radar (Ku Band) was able to measure rainfall to the west of Chan-Hom's center of circulation. At NASA's Goddard Space Flight Center in Greenbelt, Maryland, a 3-D image was created using GPM's Ku band radar data. The 3-D image showed storm tops reaching heights of about 15.1 km (9.3 miles) in a band of storms well to the southwest of Chan-Hom's center.

On July 1 at 0900 UTC (5 a.m. EDT), Chan-Hom was still a tropical storm with [maximum sustained winds](#) near 40 knots (46 mph/74 kph). Chan-Hom was centered near 10.8 North latitude and 155.5 East longitude, about 675 nautical miles (776 miles/ 1,250 km) east-southeast of Andersen Air Force Base. Andersen Air Force Base is located near Agafo Gumas in the U.S. territory of Guam. Andersen Air Force Base is providing local updates about Chan-Hom's approach on their facebook page: <https://www.facebook.com/36WGPA>. Chan-Hom has tracked westward at 10 knots (11.5 mph/18.5 kph). For updated warnings and

watches for Guam, go to the National Weather Service (NWS) page:
<http://www.prh.noaa.gov/guam/>.

The NWS in Tiyan, Guam issued this special weather statement on July 1: "The latest forecast brings a slowly-intensifying Chan-Hom toward the Marianas along a west to west-northwest track as it merges with a weaker circulation currently northwest of Chuuk. Chan-Hom is expected to begin turning to the northwest and pass through the Marianas as a typhoon over the weekend. Showers and thunderstorms will develop across the Marianas Friday, July 3, and increase over the weekend. Periods of [heavy rainfall](#) are expected across the Marianas as Chan-Hom passes by. "

The Joint Typhoon Warning Center or JTWC expects Chan-hom to strengthen to a typhoon on July 2 after moving west and passing Fananu. JTWC also forecast the center of the typhoon to move very close to Guam on July 4.



In this 3-D image using NASA/JAXA's GPM satellite, the rain was falling at a rate of over 78 mm (about 3 inches) per hour near the center of the newly formed tropical cyclone. Credit: SSAI/NASA/JAXA, Hal Pierce

Provided by NASA's Goddard Space Flight Center

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