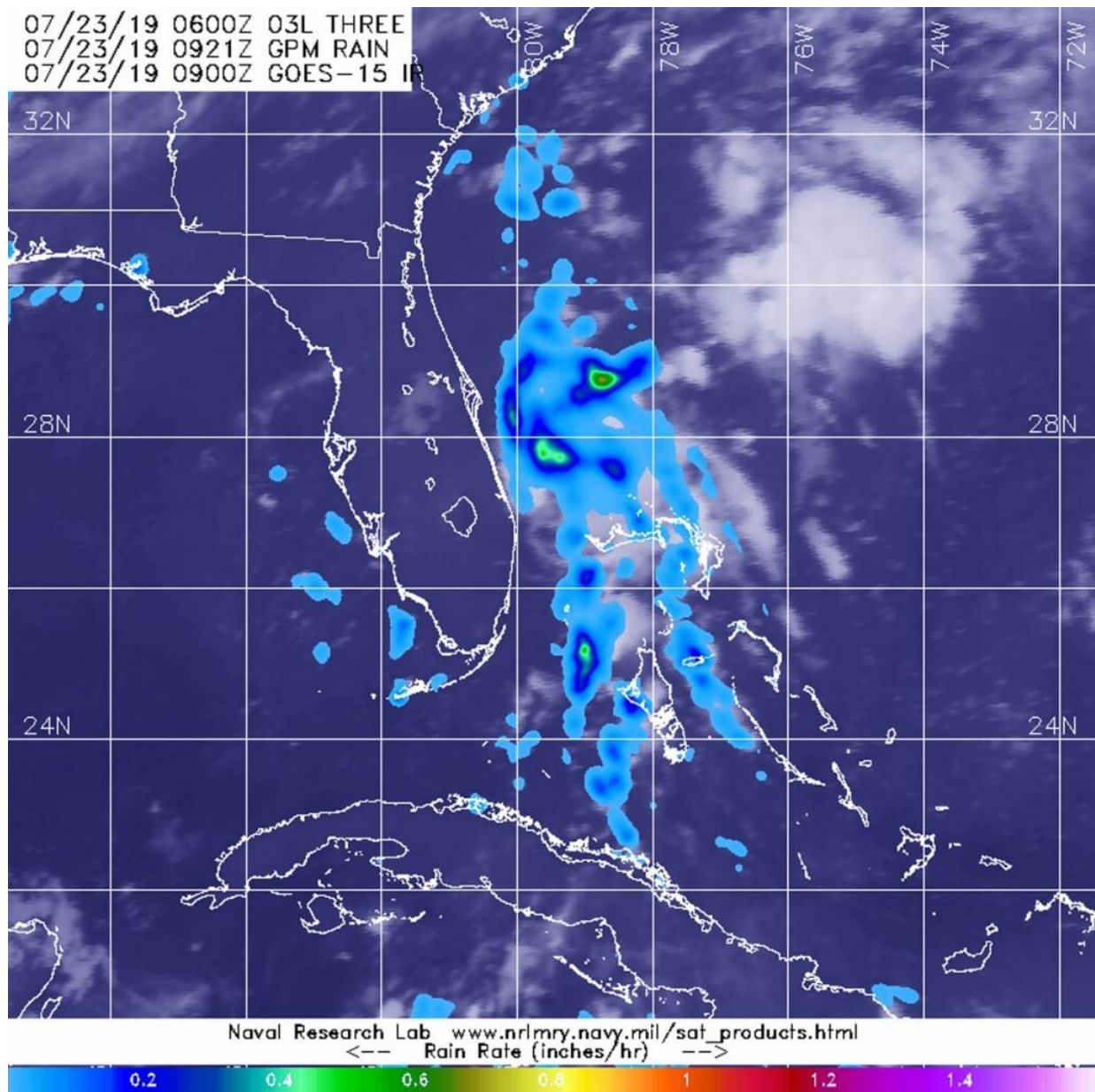


NASA analyzes new Atlantic depression's tropical rainfall

July 23 2019, by Rob Gutro



The Global Precipitation Measurement mission or GPM core satellite passed over Tropical Depression 3 at 5:21 a.m. EDT (0921 UTC) on July 23. GPM found the heaviest rainfall (orange) was northeast of the center of circulation. There, rain was falling at a rate of 25 mm (about 1 inch) per hour. Credit: NASA/JAXA/NRL

Tropical Depression 3 has formed about off the eastern coast of central Florida. NASA analyzed the rainfall that the new depression was generating using the Global Precipitation Measurement mission or GPM core satellite.

The third depression of the Atlantic Ocean hurricane season developed around 5 p.m. EDT on July 22 about 120 miles (195 km) southeast of West Palm Beach, Florida.

The Global Precipitation Measurement mission or GPM core satellite passed over Tropical Depression 3 at 5:21 a.m. EDT (0921 UTC) on July 23. GPM found the heaviest rainfall was northeast of the center of circulation. There, rain was falling at a rate of 25 mm (about 1 inch) per hour. The National Hurricane Center noted in their discussion, "Although [deep convection](#) has redeveloped near and to the northeast of the low-level center, the overall convective appearance is somewhat ragged."

On July 23, the National Hurricane Center or NHC noted at 5 a.m. EDT (0900 UTC), the center of Tropical Depression Three was located near latitude 27.0 degrees North and longitude 79.5 degrees west. That puts the center of Tropical Depression 3 (TD3) about 40 miles (70 km) east-northeast of West Palm Beach, Florida, and about 55 miles (90 km) northwest Freeport, Grand Bahama Island.

Maximum sustained winds had increased to near 35 mph (55 kph) with higher gusts. No significant increase in strength is anticipated and the depression is forecast to dissipate on Wednesday, July 24.

The depression is moving toward the north near 12 mph (19 kph). A motion toward north-northeast with an increase in forward speed is expected tonight, followed by a turn toward the northeast on Wednesday.

On the NHC forecast track, the center of the [depression](#) should remain offshore the coast of the southeastern United States through Wednesday.

GPM is a joint mission between NASA and the Japan Aerospace Exploration Agency, JAXA.

More information: For forecast updates on TD3, visit: <http://www.nhc.noaa.gov>.

Provided by NASA's Goddard Space Flight Center

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