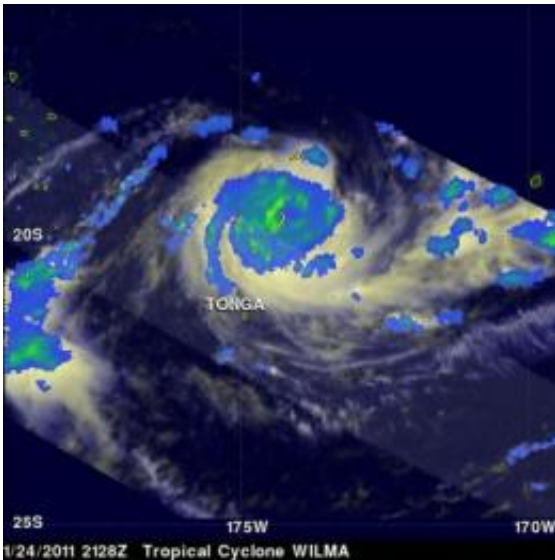


Cyclone Wilma's eye catches attention of NASA satellites

January 25 2011



Tropical cyclone Wilma was seen by the TRMM satellite shortly after attaining hurricane intensity on Jan. 24, 2011, at 2128 UTC. The yellow and green areas indicate moderate rainfall between .78 to 1.57 inches (20 and 40 mm) per hour. Credit: NASA/SSAI, Hal Pierce

Wilma caught the eye of NASA. NASA's Aqua satellite captured visible and infrared images of Cyclone Wilma in the Southwestern Pacific Ocean and her eye was clearly visible from space.

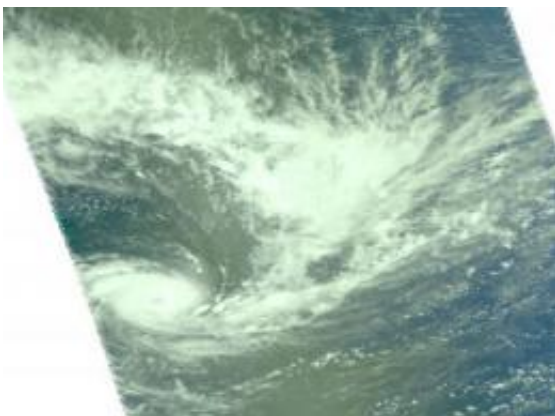
On January 25 at 00:59 UTC (8:59 p.m. EST on Jan. 24), the Atmospheric Infrared Sounder (AIRS) instrument captured data that was used to create infrared and visible images at NASA's Jet Propulsion

Laboratory in Pasadena, Calif. The images showed Cyclone Wilma had strengthened overnight and now has a visible eye.

AIRS [Infrared imagery](#) showed strong, very cold [thunderstorm cloud tops](#) around Wilma's center of circulation. The [cloud tops](#) were as cold as or colder than -63 Fahrenheit (-52 Celsius) indicating strong convection (rapidly rising air that creates the thunderstorms that power a tropical cyclone). Animated [infrared satellite imagery](#) showed a 25 nautical mile (29 mile/46 km) diameter ragged eye with tightly-curved banding of thunderstorms wrapping into the center.

AIRS instrument data also showed what appears to be a large "tail" from Wilma's center, stretching several hundred miles (kilometers) to the northeast of the storm's center.

Tropical cyclone Wilma was also seen by the [Tropical Rainfall Measuring Mission \(TRMM\)](#) satellite shortly after attaining hurricane intensity on January 24, 2011 at 2128 UTC 2:28 p.m. EST). The system had mostly moderate rainfall, falling at rates between .78 to 1.57 inches (20 and 40 mm) per hour. The TRMM satellite is managed by both NASA and JAXA, and TRMM data and imagery was created at NASA's Goddard Space Flight Center in Greenbelt, Md.



NASA's Aqua satellite captured visible and infrared images of Cyclone Wilma on Jan. 25 at 00:59 UTC. This visible image shows a well-organized storm with a visible eye. Credit: NASA/JPL, Ed Olsen

On January 25 at 0900 UTC (4 a.m. EST), Tropical Cyclone Wilma had [maximum sustained winds](#) near 85 knots (97 mph/157 km/hr). It was located about 360 nautical miles southeast of Nadi, Fiji near 22.0 South and 178.2 West. It was moving southwestward near 24 knots (27 mph/44 km/hr).

A Tropical Cyclone Warning is in force for areas of Tonga and for areas of Fiji. On its projected path, Tropical Cyclone Wilma is expected to pass about 124 miles (200 km) south-southeast of Ono-i-lau by midnight local time tonight.

Republic of the Fiji Islands is an island nation in Melanesia in the South Pacific Ocean about 1,243 miles (2,000 km) northeast of New Zealand's North Island. Vanuatu is located to the west, and New Caledonia is located to the southwest. Tonga is located east of Fiji. Tonga is an archipelago comprised of 176 islands scattered over 270,000 square miles (700,000 square kilometers).

Wilma is forecast to continue moving southwest parallel to Fiji and New Caledonia as it makes its way toward New Zealand. On January 28 it is forecast to change course and head southeast bringing rains and gusty winds to northern New Zealand.

Provided by NASA's Goddard Space Flight Center

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