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- Aere (was 22W - Northwest Pacific Ocean) *3 months ago*
- Ulika - (was 19E - Central Pacific Ocean) *4 months ago*
- Lisa - (Eastern Atlantic) *4 months ago*
- Meranti (was 16W - Northwestern Pacific Ocean)

Hazards

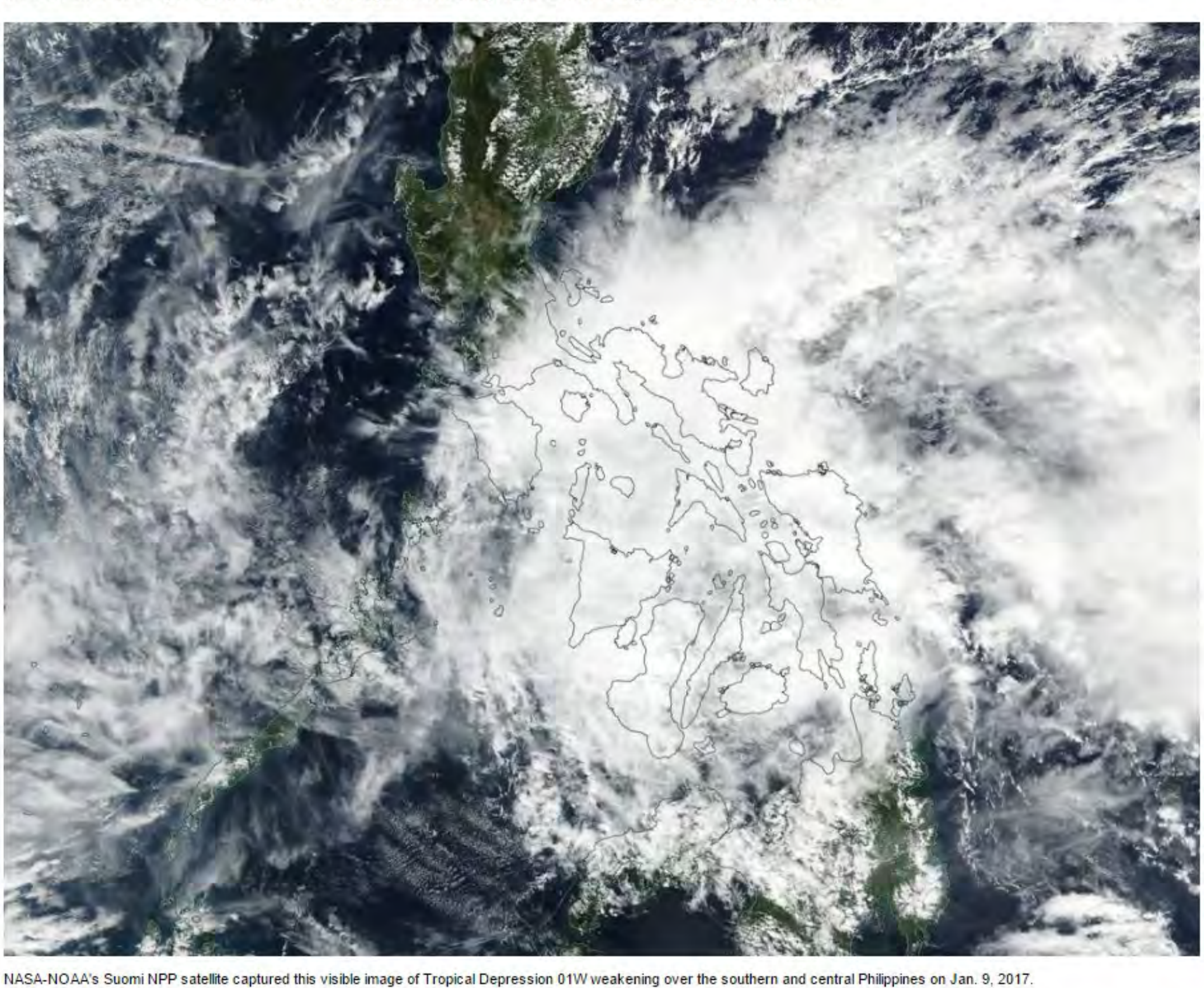
https://www.nasa.gov/feature/goddard/2016/17s-southern-indian-ocean

Jan. 9, 2017

01W - Northwest Pacific Ocean

NASA Spots Short-Lived Tropical Depression 01W

In just 24 hours after Tropical Depression 01W formed in the Philippine Sea it was already falling apart. NASA-NOAA's Suomi NPP satellite passed over the depression and saw the large, weakening depression being affected by wind shear.



NASA-NOAA's Suomi NPP satellite captured this visible image of Tropical Depression 01W weakening over the southern and central Philippines on Jan. 9, 2017.
Credits: NOAA/NASA

Tropical depression 01W, known in the Philippines as Tropical Depression Auring, formed near Mindanao on Jan. 8, 2017 and triggered warnings. On January 9, TD01W continued to move west through Mindanao toward the South China Sea.

At 4 a.m. EST (0900 UTC), TD01W was located near 10.3 north latitude and 123.6 east longitude, about 8 nautical miles north of Mactan, Philippines. TD01W was moving to the west-northwest at 8 mph (7 knots /12.9 kph). Maximum sustained winds dropped from 34.5 mph (30 knots/55.5 kph) to 23 mph (20 knots/37 kph).

The Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) noted at 10:10 a.m. EST (11:10 p.m. local time) on Jan. 9, "This low pressure area is expected to bring moderate to occasionally heavy rains over Bicol Region and Samar provinces. Residents of these areas are alerted against possible flashfloods and landslides. Meanwhile, light to moderate rains and isolated thunderstorms are expected over Calabarzon and over the provinces of Mindoro, Marinduque and Romblon. Fisher folks and those with small sea crafts are alerted against moderate to occasionally rough seas over Bicol Region and Visayas."

The Joint Typhoon Warning Center (JTWC) issued their final warning on the system at that time. JTWC noted that "animated multispectral and enhanced infrared satellite imagery show the central convection has dispersed and/or collapsed as the low level circulation unraveled as the system dragged across the rugged Visayan island chain and encountered high vertical wind shear [of 28.7 to 34.5 mph (25 to 30 knots /46.3 to 55.5 kph)]."

On Jan. 9 the Visible Infrared Imaging Radiometer Suite (VIIRS) instrument aboard NASA-NOAA's Suomi NPP satellite provided a visible-light image of Tropical Depression 01W that showed clouds and thunderstorms stretched from the Mindanao region in the south to the Bikol region in the northeast and the Western Visayas region.

01W is traversing the central Philippines and is expected to dissipate near Palawan by Jan 10 at 1 a.m. EST (0600 UTC). JTWC said that the system will be monitored for regeneration in the South China Sea.

Rob Gutro
NASA's Goddard Space Flight Center

Last Updated: Jan. 9, 2017
Editor: Lynn Jenner

Tags: Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership)

Hurricanes

Dec. 26, 2016

Yvette (was 02S - Southern Indian Ocean)

Dec. 26, 2016 - NASA Spies the end of Tropical Cyclone Yvette

Tropical Storm Yvette gave in to the strong wind shear that was battering the storm, and no longer qualifies as a tropical cyclone. NASA-NOAA's Suomi NPP satellite showed that wind shear had taken its toll on the former tropical cyclone.

Tags: Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership)

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Hurricanes

Oct. 21, 2016

Haima (Northwest Pacific Ocean)

NASA Measures Extreme Rainfall With Typhoons Sarika and Haima

Two powerful typhoons have hit the Philippines in less than a week. Sarika was followed by Typhoon Haima. Using satellite data, NASA estimated the intense rainfall generated by these two typhoons.

Extreme Rainfall in Typhoons Sarika, Haima

Tags: GPM (Global Precipitation Measurement), Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership)

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Hurricanes

Oct. 21, 2016

Sarika (was 24W - Northwestern Pacific Ocean)

NASA Measures Extreme Rainfall With Typhoons Sarika and Haima

Extreme Rainfall in Typhoons Sarika, Haima

Tags: Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership)

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Hurricanes

Oct. 18, 2016

Nicole (Atlantic Ocean)

NASA Sees Tropical Storm Nicole Going "Extra-Tropical"

Tropical Storm Nicole was becoming extra-tropical when the NASA-NOAA Suomi NPP satellite passed over it from space and captured a visible picture of the storm. By Oct. 18, Nicole was a post-tropical storm and the National Hurricane Center or NHC issued their final advisory on the system.

Tags: Goddard Space Flight Center, Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership)

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Hurricanes

Oct. 13, 2016

Aere (was 22W - Northwest Pacific Ocean)

NASA-NOAA Satellite Sees Rebirth of Aere the Zombie Storm

Tropical Cyclones sometimes reform after the become remnant low pressure areas, but it's not all that common. When NASA-NOAA's Suomi NPP satellite flew over the South China Sea, it captured an image of reborn tropical cyclone Aere and the "Zombie storm" is headed for landfall in central Vietnam.

Tags: Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership)

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Hurricanes

Sept. 30, 2016

Ulika - (was 19E - Central Pacific Ocean)

NASA Sees the End of Tropical Depression Ulika's Strength

The Suomi NPP satellite passed over Tropical Depression Ulika in the Central Pacific Ocean and spotted a small area of storms left in the weakening tropical cyclone.

As of 5 a.m. EDT (0900 UTC) on Sept. 30 NOAA's Central Pacific Hurricane Center (CPHC) noted that the last significant deep convection around Ulika dissipated this

Tags: Aqua Satellite, Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership)

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Hurricanes

Sept. 26, 2016

Lisa - (Eastern Atlantic)

NASA-NOAA's Suomi NPP Satellite Sees Lisa Getting Dusted

Tropical Cyclone Lisa met its end over the weekend of Sept. 24 and 25 as NASA-NOAA's Suomi NPP satellite flew over the storm and saw dust blowing toward it from the west coast of Africa.

Tags: Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership)

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Hurricanes

Sept. 15, 2016

Meranti (was 16W - Northwestern Pacific Ocean)

NASA Sees Tropical Storm Meranti Make Landfall in China

Once a Super Typhoon, Meranti made landfall in southeastern China late on Sept. 14 as NASA-NOAA's Suomi NPP satellite passed overhead from space. Previously, NASA's CloudSat satellite provided a sideways look at the storm when it was near its peak.

Tags: CloudSat, Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership)

Read Full Article

Hurricanes

Sept. 13, 2016

Rai (was 19W - Northwest Pacific Ocean)

NASA Sees Tropical Depression Rai Over Thailand, Vietnam, Laos

After Tropical Depression 19W moved ashore in central Vietnam NASA-NOAA's Suomi NPP satellite passed over the system and found some powerful thunderstorms over Thailand, Vietnam and Laos capable of dropping heavy rainfall.

NPP VIIRS Infrared 2016/09/13 06:50:48Z NRL-Monterey

Tags: Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership)

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Hurricanes

Sept. 2, 2016

Gaston (Eastern Atlantic Ocean)

NASA Observes a Weaker Tropical Cyclone Gaston, Warnings up in Azores

NASA-NOAA's Suomi NPP satellite passed over Gaston as it continued to weaken over the waters of the North Central Atlantic Ocean and head toward the Azores Islands. Warnings are in effect in the Azores on Sept. 2.

On Sept. 1 at 11:50 a.m. EDT (1550 UTC) the Visible Infrared Imaging Radiometer Suite (VIIRS) instrument aboard the NASA-NOAA Suomi NPP satellite captured a visible light image of Gaston. The VIIRS image revealed that eye had disappeared and the bulk of clouds appeared

Tags: Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership)

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Hurricanes

Aug. 22, 2016

Mindulle - (Previously 10W - Northwest Pacific Ocean)

NASA-NOAA's Suomi NPP Satellite Sees Mindulle East of Japan

Tropical Storm Lionrock was east of Kyushu, the southwestern-most of Japan's main islands while Tropical Storm Mindulle was southeast of Toyko when NASA-NOAA's Suomi NPP satellite passed overheard on Aug. 21. The storms are each headed in different directions.

On Aug. 21 at 11:45 p.m. EDT (0345 UTC on Aug. 22) the Visible Infrared Imaging Radiometer Suite (VIIRS) instrument aboard NASA-NOAA's [illegible] captured a visible light image of Tropical Storms Lionrock and Mindulle. The VIIRS image showed that wind shear

Tags: Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership)

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Hurricanes

Aug. 10, 2016

Javier (Eastern Pacific Ocean)

Satellite Sees Remnants of Tropical Depression Javier

Tropical Depression Javier weakened to a remnant low-pressure area on Aug. 9 at 5 p.m. EDT (2100 UTC). NOAA's GOES-West satellite showed the remnants over Baja California, Mexico, and the Gulf of California.

The National Hurricane Center (NHC) noted in the Eastern Pacific discussion on Aug. 10 that "Satellite-derived winds and surface observations indicate winds in the vicinity of Javier have decreased to 15 knots or less. The same satellite-derived wind imagery indicates

Tags: GOES (Geostationary Environmental Operational Satellites), GPM (Global Precipitation Measurement), Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership)

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Hurricanes

Aug. 3, 2016

Howard (Eastern Pacific Ocean)

NASA Sees Tropical Storm Howard Weakening

Infrared data from NASA's Terra satellite has revealed that Tropical Storm Howard is weakening quickly as it continues to move over cooler waters in the Eastern Pacific Ocean.

On Aug. 3 at 2:35 a.m. EDT (6:35 a.m. UTC) the Moderate Resolution Imaging

Tags: Aqua Satellite, Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership), Terra Satellite

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Hurricanes

July 23, 2016

Estelle (was 6E - Eastern Pacific)

NASA Catches Estelle Becoming Post-Tropical

The Suomi NPP satellite passed over Tropical Storm Estelle as it was transitioning to a post-tropical storm in the Eastern Pacific Ocean.

On July 22 at 0000 UTC (July 21 at 8 p.m. EDT) the Visible Infrared Imaging Radiometer Suite (VIIRS) instrument aboard the NASA-NOAA Suomi NPP satellite captured a visible light image of Tropical Storm Estelle. Estelle was still a tropical storm at the time of the image, but was devoid of strong convection (rising air that condenses into clouds and thunderstorms that make up a tropical cyclone). The VIIRS image

Tags: Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership)

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Hurricanes

June 30, 2016

Tropical Cyclone 02A (No. Indian Ocean/Arabian Sea)

NASA Sees Heavy Rain in Arabian Sea Tropical Cyclone

Tropical Cyclone 02A in the Arabian Sea east of Oman has been weakening and has become a tropical depression. The Global Precipitation Measurement or GPM mission core satellite analyzed the rainfall in the system.

Tags: Aqua Satellite, Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership)

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Hurricanes

June 6, 2016

Bonnie (was TD2/91L) - North Atlantic Ocean

Satellite Movie Sees Bonnie's Remnants Fizzle in Atlantic

The National Hurricane Center in Miami, Florida, issued their final advisory on former Tropical Cyclone Bonnie on Sunday, June 5, 2016 at 0300 UTC (Sat. June 4 at 11 p.m. EDT). An animation of satellite imagery from NOAA's GOES-East satellite from June 4 to June 6 showed Bonnie being torn apart by wind shear.

Tags: GOES (Geostationary Environmental Operational Satellites), Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership)

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Hurricanes

May 21, 2016

Roanu (was 91B/01B) - Northern Indian Ocean

Final Warning Issued on Tropical Cyclone Roanu

On May 21 at 11 a.m. EDT (1500 UTC) the Joint Typhoon Warning Center issued their final warning on Tropical Cyclone Roanu as it made landfall near Chittagong, Bangladesh at 6 a.m.EDT (1000 GMT). NASA's Terra satellite captured the storm as it was making landfall.

On May 21 at 12:50 a.m. EDT (4:50 UTC) the Moderate Resolution Imaging Spectroradiometer or MODIS instrument aboard NASA's Terra satellite captured Tropical Cyclone Roanu approaching Bangladesh. It showed the center of the storm making landfall while eastern bands of

Tags: Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership)

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Hurricanes

March 30, 2016

17S (Southern Indian Ocean)

Suomi NPP Satellite Spots Remnants of Tropical Cyclone 17S

Former Tropical Cyclone 17S was battered by northerly vertical wind shear and reduced to a remnant low pressure area in the Southern Indian Ocean. NASA-NOAA's Suomi NPP satellite passed over the system on March 30 captured a visible image of the large area of remnant clouds streaming to the southeast.

NPP VIIRS Visible 2016/03/30 08:46:44Z NRL-Monterey

Tags: Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership)

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Hurricanes

March 23, 2016

Emeraude - Southern Indian Ocean

Suomi NPP Satellite Spots Ex-Tropical Cyclone Emeraude's Remnants

Former Tropical Cyclone Emeraude was battered by northeasterly vertical wind shear and reduced to a remnant low pressure area in the Southern Indian Ocean. NASA-NOAA's Suomi NPP satellite passed over the system on March 24 captured a visible image of the large area of remnant clouds.

NPP VIIRS Visible 2016/03/23 07:42:53Z NRL-Monterey

Tags: Hazards, Hurricanes, Suomi NPP (National Polar-orbiting Partnership)

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