

# HurricaneZone

## Tracking Tropical Cyclones Around the World™

Home ♡ Indian Ocean ♡ West Pacific ♡ South Pacific ♡ Central Pacific ♡ East Pacific ♡ Atlantic ♡



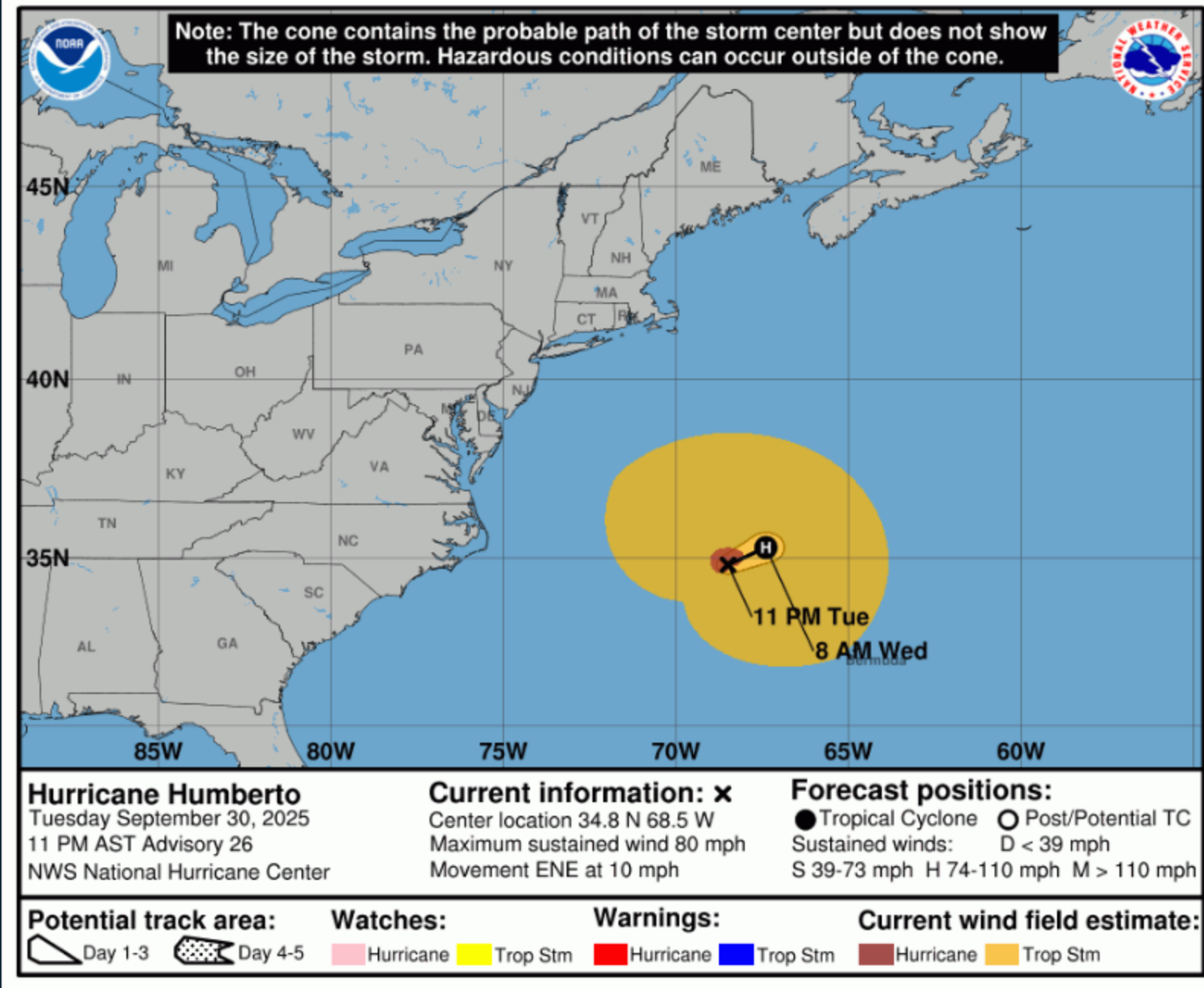
## Hurricane HUMBERTO

Hurricane Humberto Advisory Number 26  
NWS National Hurricane Center Miami FL AL082025  
1100 PM AST Tue Sep 30 2025

...HUMBERTO LIKELY TO MERGE WITH A FRONTAL BOUNDARY ON W  
...DANGEROUS SURF AND RIP CURRENTS TO CONTINUE ACROSS TH  
ATLANTIC COASTLINE THROUGH THE WEEK...

SUMMARY OF 1100 PM AST...0300 UTC...INFORMATION

LOCATION...34.8N 68.5W  
ABOUT 275 MI...440 KM NW OF BERMUDA  
MAXIMUM SUSTAINED WINDS...80 MPH...130 KM/H  
PRESENT MOVEMENT...ENE OR 65 DEGREES AT 10 MPH...17 KM/H  
MINIMUM CENTRAL PRESSURE...979 MB...28.91 INCHES



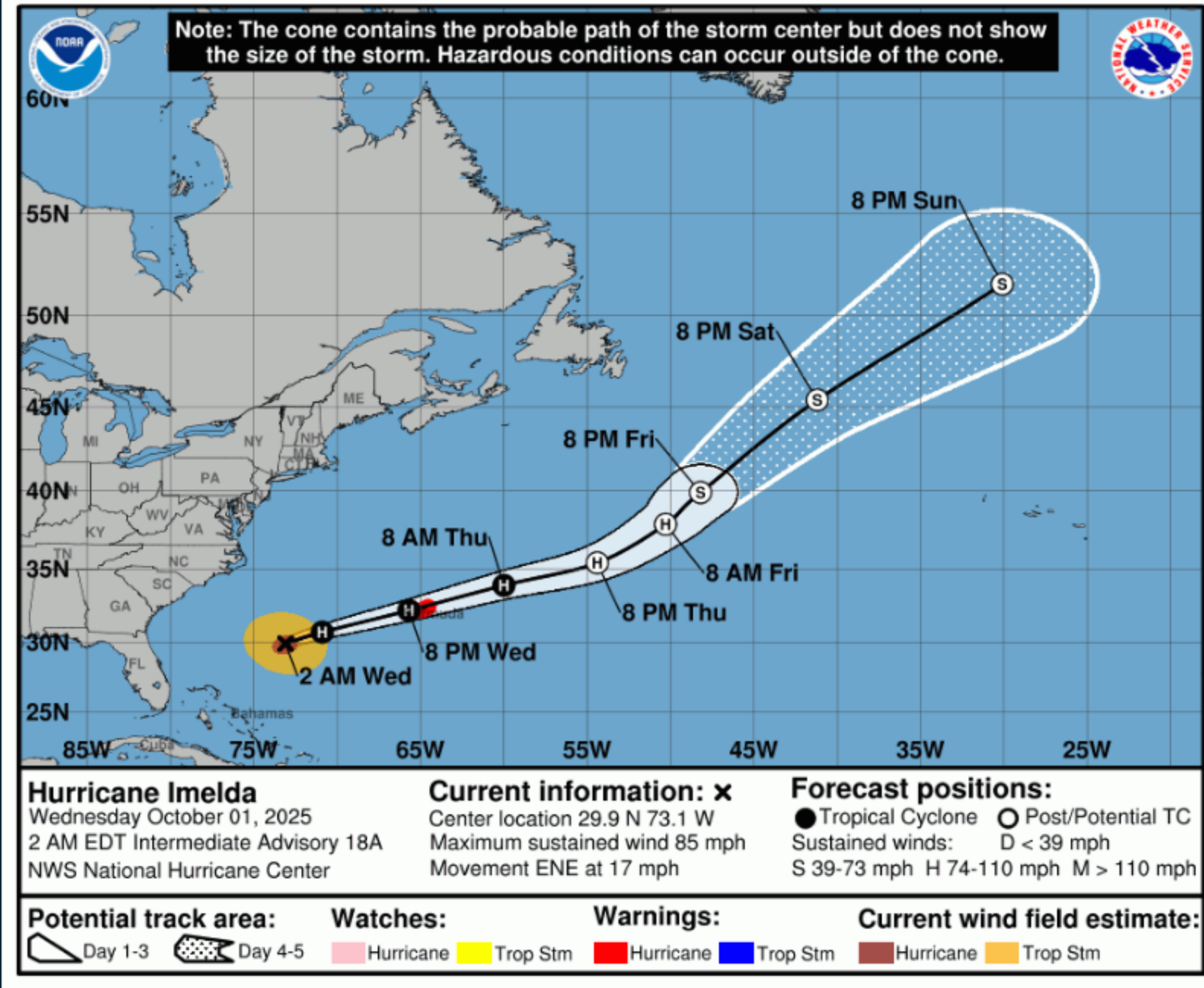
## Hurricane IMELDA

Hurricane Imelda Intermediate Advisory Number 18A  
NWS National Hurricane Center Miami FL AL092025  
200 AM EDT Wed Oct 01 2025

...IMELDA EXPECTED TO BRING HURRICANE-FORCE WINDS TO BER  
TODAY...

SUMMARY OF 200 AM EDT...0600 UTC...INFORMATION

LOCATION...29.9N 73.1W  
ABOUT 520 MI...835 KM SWW OF BERMUDA  
MAXIMUM SUSTAINED WINDS...85 MPH...140 KM/H  
PRESENT MOVEMENT...ENE OR 75 DEGREES AT 17 MPH...28 KM/H  
MINIMUM CENTRAL PRESSURE...976 MB...28.82 INCHES



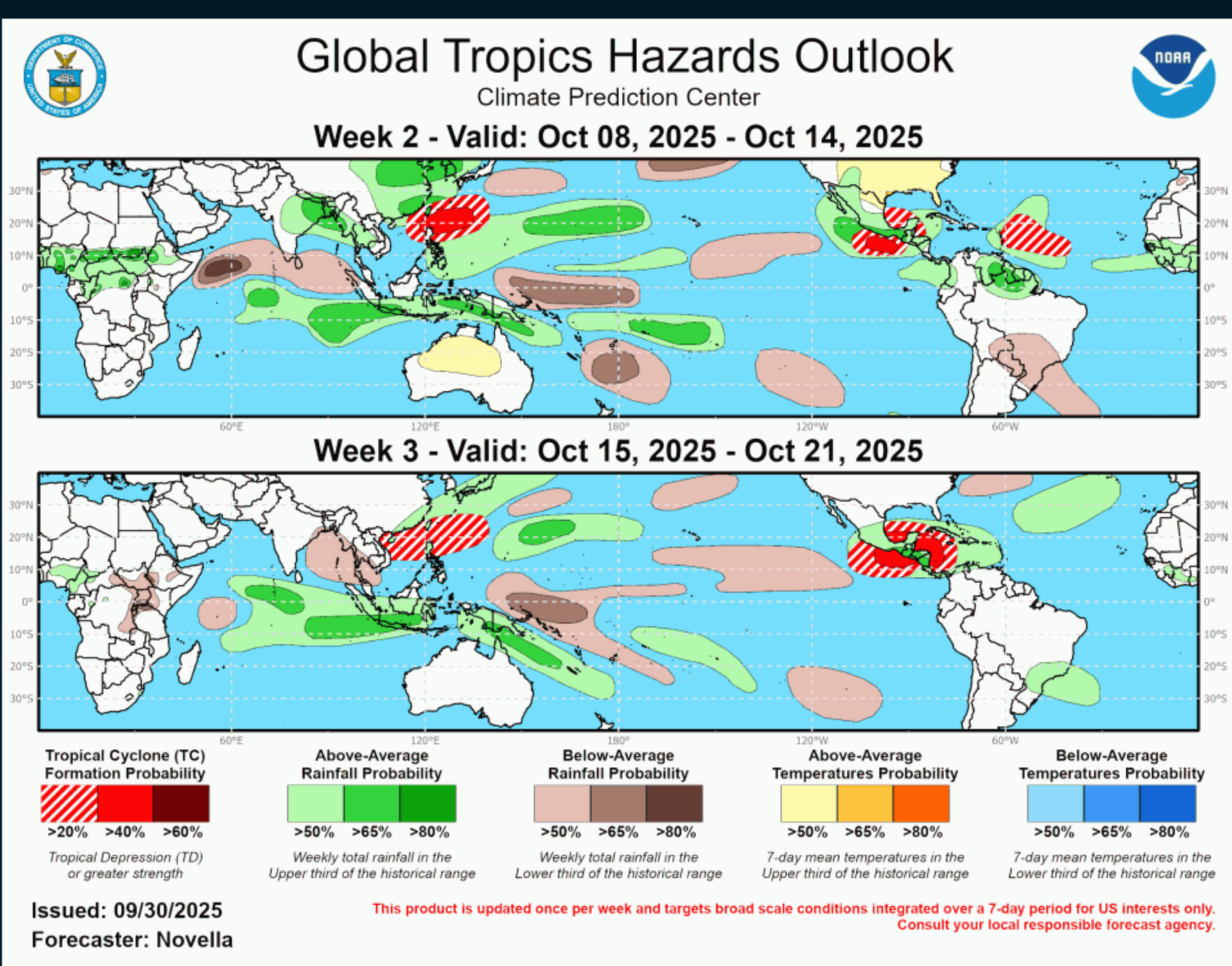
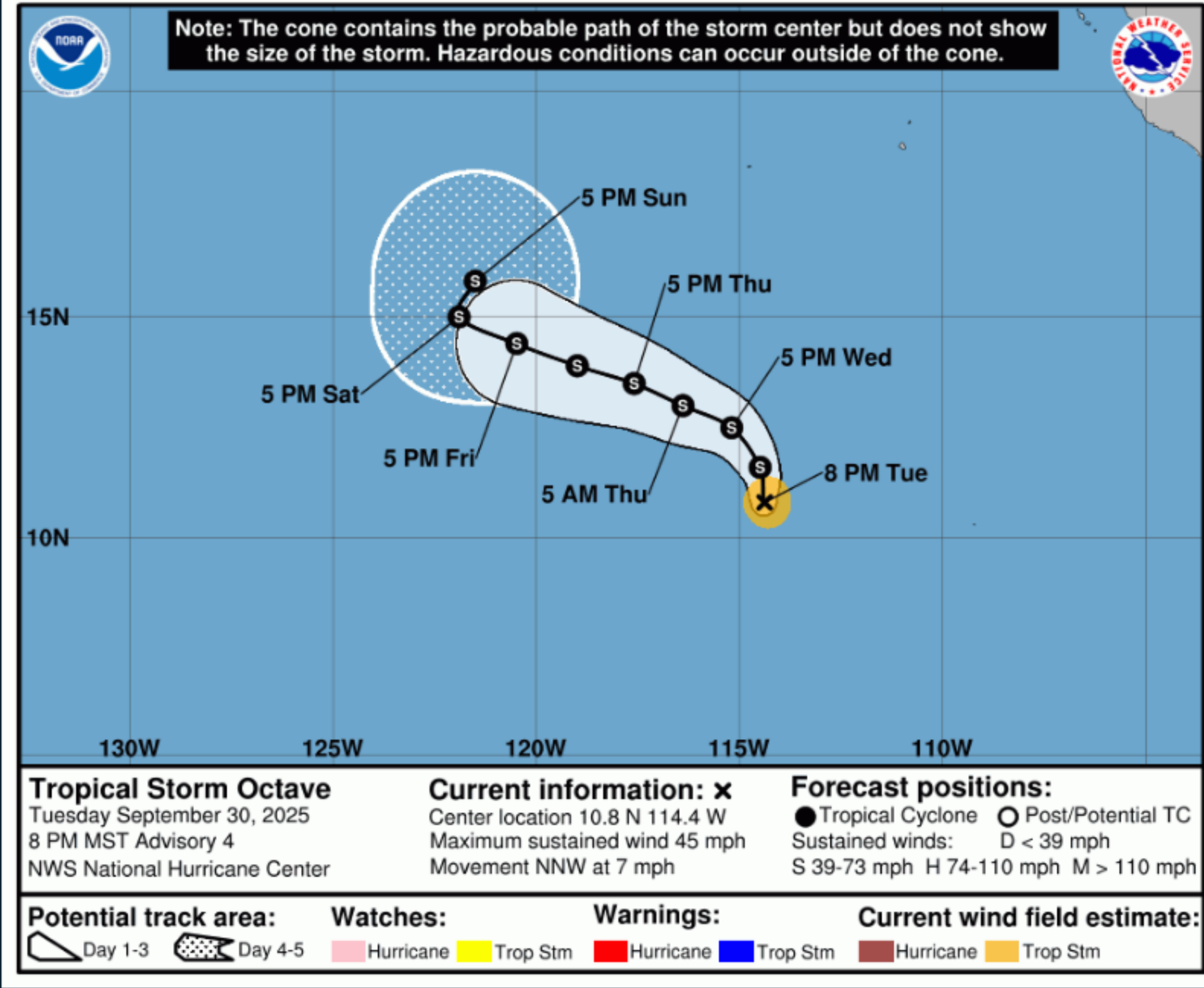
## Tropical Storm OCTAVE

Tropical Storm Octave Advisory Number 4  
NWS National Hurricane Center Miami FL EP152025  
800 PM MST Tue Sep 30 2025

...OCTAVE HEADING NORTH-NORTHWESTWARD OVER THE OPEN TROP  
PACIFIC...

SUMMARY OF 800 PM MST...0300 UTC...INFORMATION

LOCATION...10.8N 114.4W  
ABOUT 885 MI...1425 KM SSW OF THE SOUTHERN TIP OF BAJA C  
MAXIMUM SUSTAINED WINDS...45 MPH...75 KM/H  
PRESENT MOVEMENT...NNW OR 340 DEGREES AT 7 MPH...11 KM/H  
MINIMUM CENTRAL PRESSURE...1001 MB...29.56 INCHES



Graphic provided by Climate Prediction Center

## What Is a Hurricane?

A hurricane (or typhoon, or severe tropical cyclone), the strongest storm on Earth, is a cyclonic (rotary) storm that derives its energy from cloud formation and rainfall, unlike frontal cyclones that derive their power from a temperature gradient.

A hurricane begins as a tropical depression with a sustained wind speed of less than 39 mph (35 knots; 63 km/hr). As the system strengthens, it becomes a tropical storm with winds from 39 to 73 mph (35-63 knots; 63-118 km/hr). Tropical storms are named in the Atlantic, East, Central and Northwest Pacific, in the South Indian Ocean, and in the Arabian Sea. When the winds are sustained (based on a one-minute average) at 74 mph (64 knots; 119 km/hr), the storm becomes: In the Atlantic Ocean, East Pacific, Central Pacific (east of the International Dateline) and Southeast Pacific (east of 160°E) a Hurricane; in the Northwest Pacific (west of the International Dateline) a Typhoon; in the Southwest Pacific (west of 160°E) and Southeast Indian Ocean (east of 90°E) a Severe Tropical Cyclone; in the North Indian Ocean a Severe Cyclonic Storm; and in the Southwest Indian Ocean (west of 90°E) a Tropical Cyclone.

## The Saffir-Simpson Hurricane Scale

**Category 1** – 64-82 knots (74-95 mph; 119-153 km/h). Damage is limited to foliage, signage, unanchored boats and mobile homes. There is no significant damage to buildings. The main threat to life and property may be flooding from heavy rains.

**Category 2** – 83-95 knots (96-110 mph; 154-177 km/h). Roof damage to buildings. Doors and windows damaged. Mobile homes severely damaged. Piers damaged by storm surge. Some trees blown down, more extensive limb damage.

**Category 3** – 96-112 knots (111-129 mph; 178-208 km/h). Major Hurricane. Structural damage to some buildings. Mobile homes are completely destroyed. Roof damage is common. Storm surge begins to cause significant damage in beaches and harbors, with small buildings destroyed.

**Category 4** – 113-136 knots (130-156 mph; 209-251 km/h). Structural failure of some buildings. Complete roof failures on many buildings. Extreme storm surge damage and flooding. Severe coastal erosion, with permanent changes to the coastal landscape not unheard of. Hurricane force winds extend well inland.

**Category 5** – 137+ knots (157+ mph; 252+ km/h). Complete roof failure on most buildings. Many buildings destroyed, or structurally damaged beyond repair. Catastrophic storm surge damage. In the Northwest Pacific, a typhoon that reaches 150 mph (241 km/hr) is called a Super Typhoon.

SAFFIR-SIMPSON SCALE				
Category	Knots	MPH	KM/H	Damage
1	64-82	74-95	119-153	Minimal
2	83-95	96-110	154-177	Moderate
3	96-112	111-129	178-208	Extensive
4	113-136	130-156	209-251	Extreme
Super Typhoon	130+	150+	241+	Catastrophic
5	137+	157+	252+	Catastrophic

## Storm Surge

Historically, storm surge is the primary killer in hurricanes. The exact storm surge in any given area will be determined by how quickly the water depth increases offshore. In deep-water environments, such as the Hawaiian islands, storm surge will be enhanced by the rapidly decreasing ocean depth as the wind-driven surge approaches the coast. The peak storm surge is on the right-front quadrant (left-front in the Southern Hemisphere) of the eyewall at landfall, where on-shore winds are the strongest, and at the leading edge of the eyewall. Contrary to a popular myth, the storm surge is entirely wind-driven water—it is not caused by the low pressure of the eye. Another factor in the severity of the storm surge is tide. Obviously, an 18-foot storm surge at high tide is that much worse than an 18-foot surge at low tide.

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