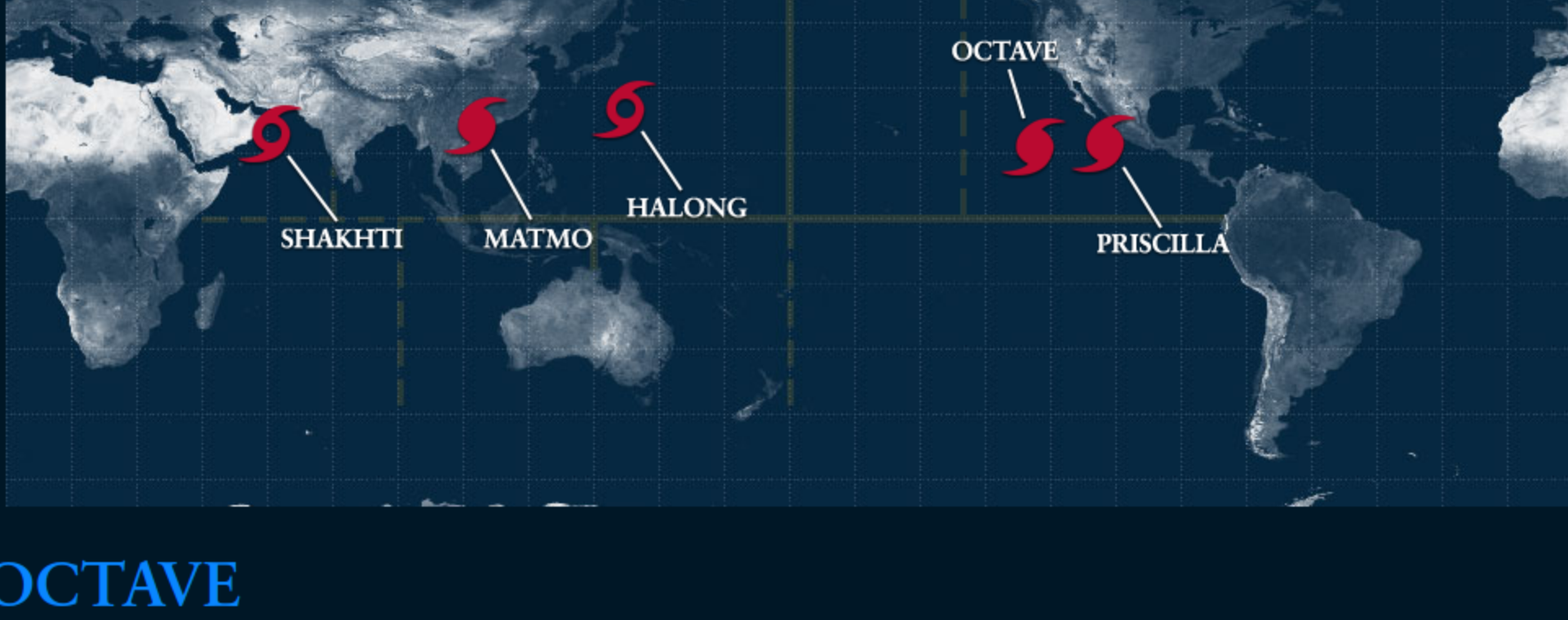


# HurricaneZone

## Tracking Tropical Cyclones Around the World™

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



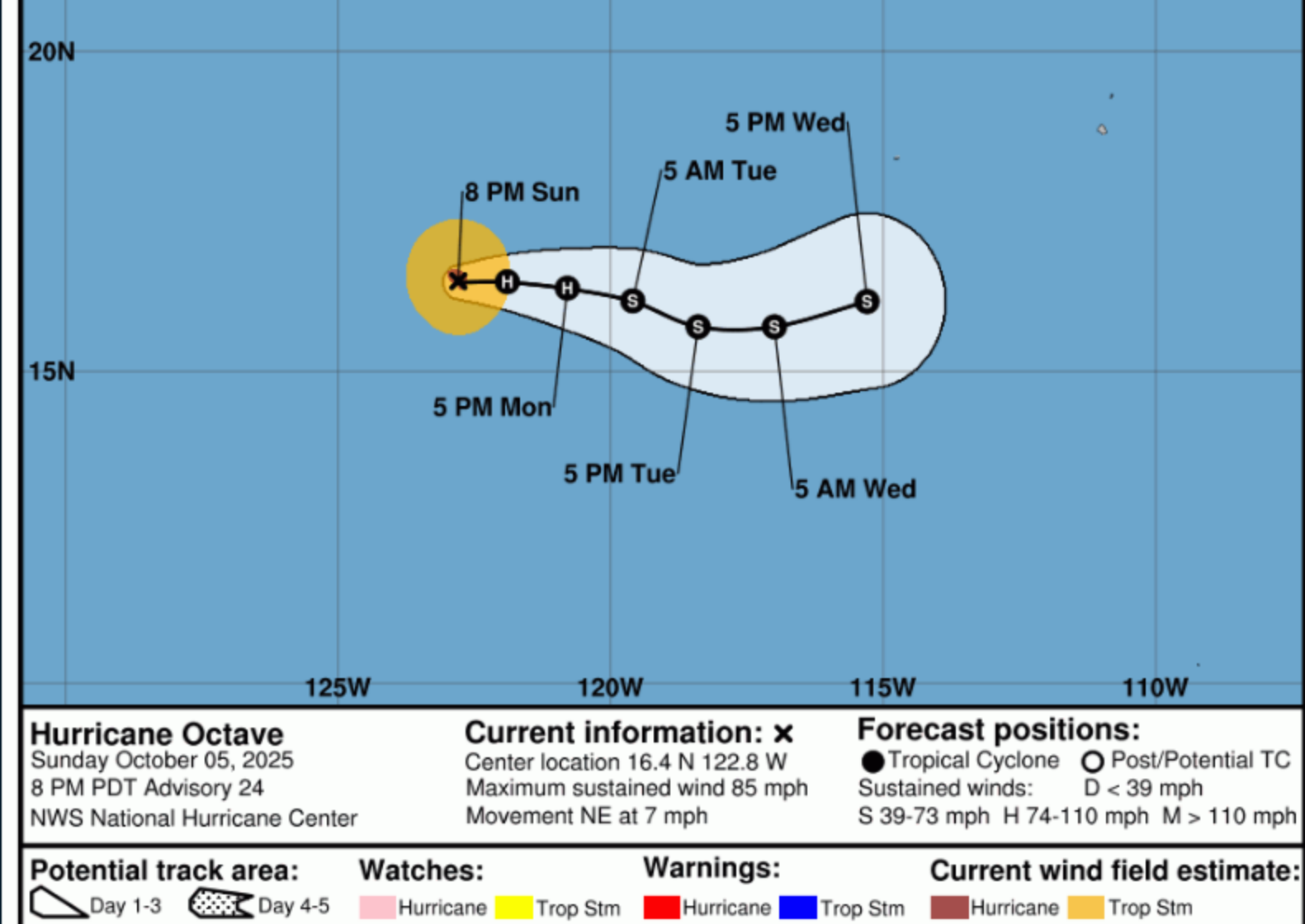
## Hurricane OCTAVE

Hurricane Octave Advisory Number 24  
NWS National Hurricane Center Miami FL  
800 PM PDT Sun Oct 05 2025

EP152025

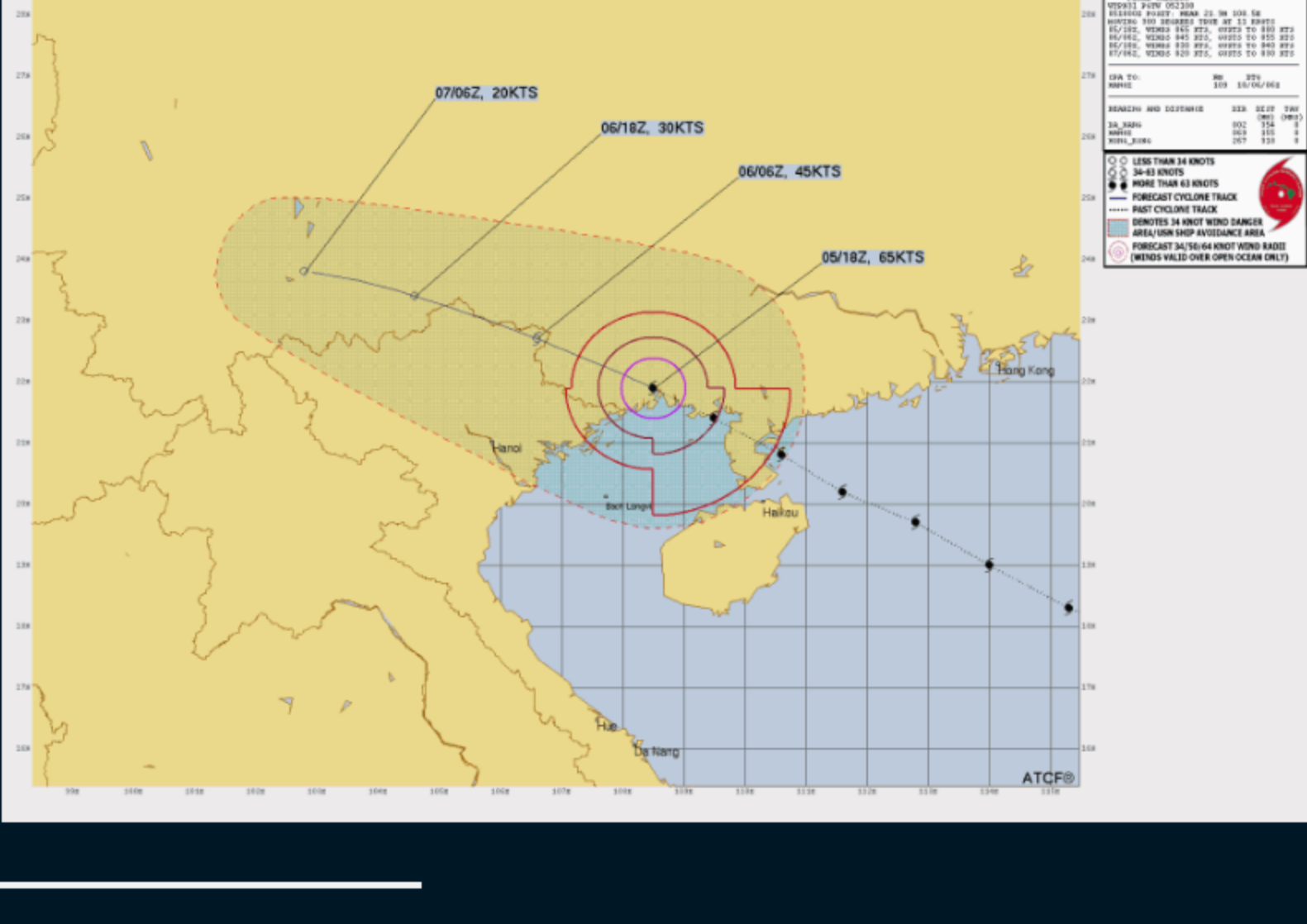
...OCTAVE SLIGHTLY STRENGTHENS WHILE HEADING NORTHEASTWA

SUMMARY OF 800 PM PDT...0300 UTC...INFORMATION  
-----  
LOCATION...16.4N 122.8W  
ABOUT 950 MI...1530 KM WSW OF THE SOUTHERN TIP OF BAJA C  
MAXIMUM SUSTAINED WINDS...85 MPH...140 KM/H  
PRESENT MOVEMENT...NE OR 55 DEGREES AT 7 MPH...11 KM/H  
MINIMUM CENTRAL PRESSURE...984 MB...29.06 INCHES



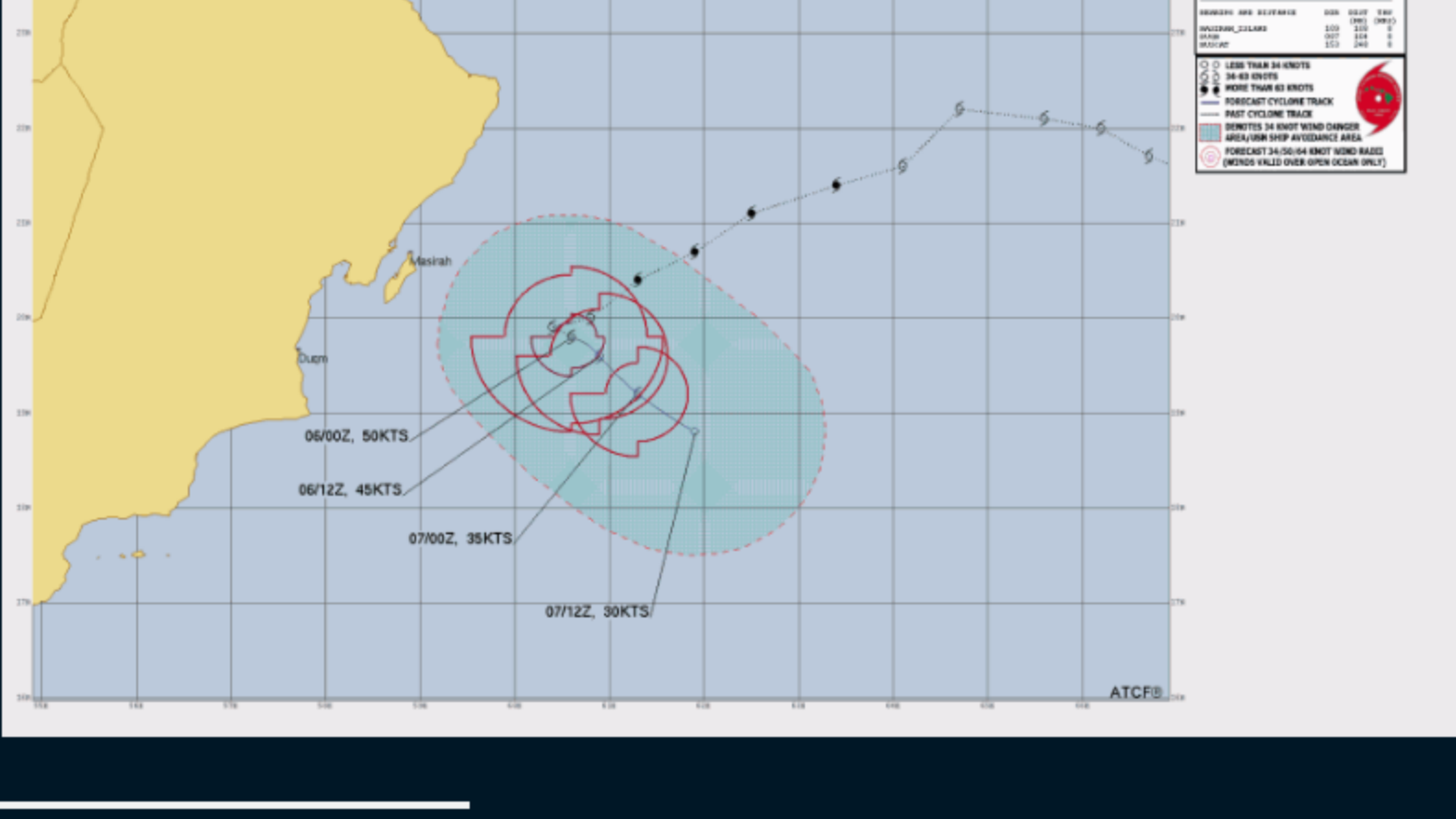
## Typhoon MATMO

1. TYPHOON 27W (MATMO) WARNING NR 019  
02 ACTIVE TROPICAL CYCLONES IN NORTHWESTPAC  
MAX SUSTAINED WINDS BASED ON ONE-MINUTE AVERAGE  
WIND RADII VALID OVER OPEN WATER ONLY  
---  
WARNING POSITION:  
051808Z --- NEAR 21.9N 108.5E  
MOVEMENT PAST SIX HOURS - 300 DEGREES AT 11 KTS  
POSITION ACCURATE TO WITHIN 030 NM  
POSITION BASED ON EYE FIXED BY A COMBINATION OF  
SATELLITE AND RADAR  
PRESENT WIND DISTRIBUTION:  
MAX SUSTAINED WINDS - 065 KT, GUSTS 080 KT  
WIND RADII VALID OVER OPEN WATER ONLY  
RADIUS OF 064 KT WINDS - 030 NM NORTHEAST QUADRANT  
030 NM SOUTHEAST QUADRANT  
030 NM SOUTHWEST QUADRANT  
030 NM NORTHWEST QUADRANT  
RADIUS OF 050 KT WINDS - 065 NM NORTHEAST QUADRANT  
065 NM SOUTHEAST QUADRANT  
065 NM SOUTHWEST QUADRANT  
065 NM NORTHWEST QUADRANT  
RADIUS OF 034 KT WINDS - 075 NM NORTHEAST QUADRANT  
125 NM SOUTHEAST QUADRANT  
080 NM SOUTHWEST QUADRANT  
075 NM NORTHWEST QUADRANT  
REPEAT POSIT: 21.9N 108.5E



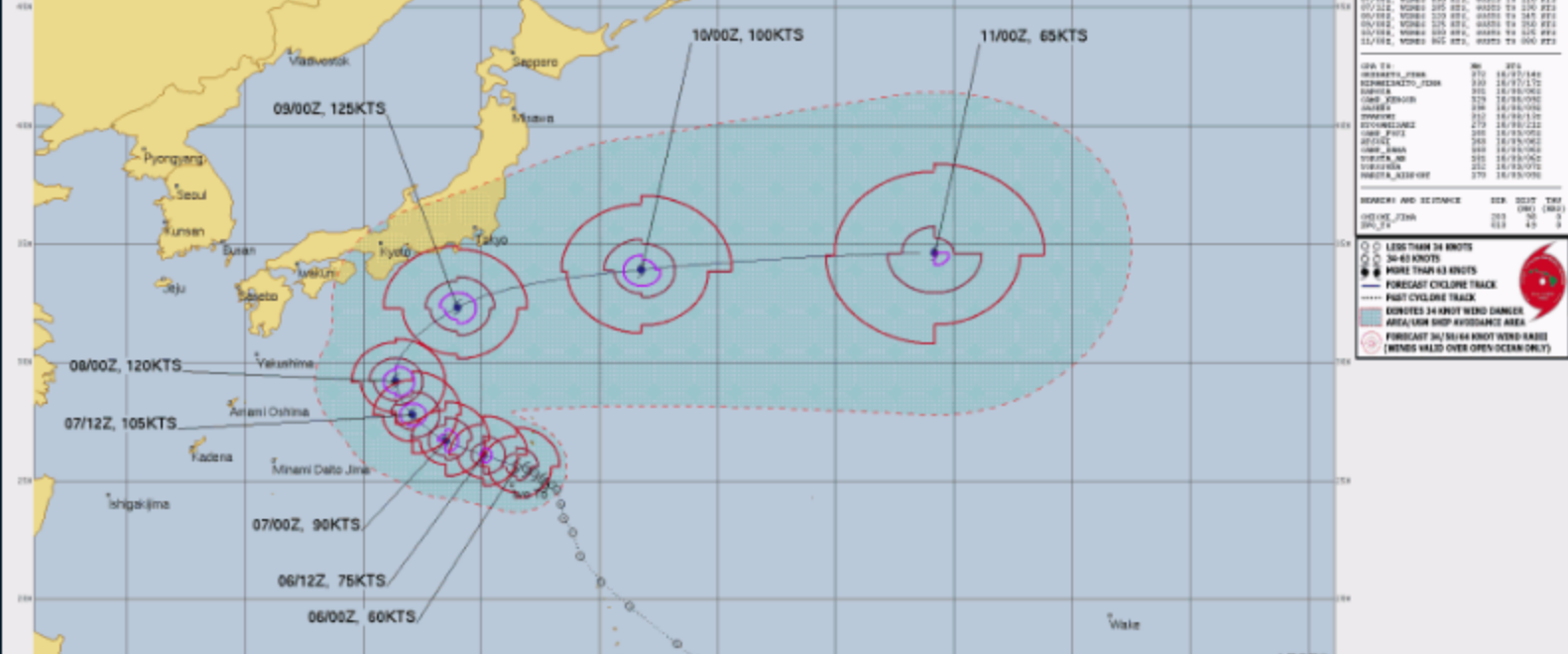
## Tropical Cyclone SHAKHTI

1. TROPICAL CYCLONE 02A (SHAKHTI) WARNING NR 013  
01 ACTIVE TROPICAL CYCLONE IN NORTHIO  
MAX SUSTAINED WINDS BASED ON ONE-MINUTE AVERAGE  
WIND RADII VALID OVER OPEN WATER ONLY  
---  
WARNING POSITION:  
060800Z --- NEAR 19.8N 60.6E  
MOVEMENT PAST SIX HOURS - 120 DEGREES AT 02 KTS  
POSITION ACCURATE TO WITHIN 030 NM  
POSITION BASED ON CENTER LOCATED BY SATELLITE  
PRESENT WIND DISTRIBUTION:  
MAX SUSTAINED WINDS - 050 KT, GUSTS 065 KT  
WIND RADII VALID OVER OPEN WATER ONLY  
RADIUS OF 050 KT WINDS - 015 NM NORTHEAST QUADRANT  
020 NM SOUTHEAST QUADRANT  
025 NM SOUTHWEST QUADRANT  
010 NM NORTHWEST QUADRANT  
RADIUS OF 034 KT WINDS - 045 NM NORTHEAST QUADRANT  
055 NM SOUTHEAST QUADRANT  
060 NM SOUTHWEST QUADRANT  
040 NM NORTHWEST QUADRANT  
REPEAT POSIT: 19.8N 60.6E



## Tropical Storm HALONG

1. TROPICAL STORM 28W (HALONG) WARNING NR 007  
02 ACTIVE TROPICAL CYCLONES IN NORTHWESTPAC  
MAX SUSTAINED WINDS BASED ON ONE-MINUTE AVERAGE  
WIND RADII VALID OVER OPEN WATER ONLY  
---  
WARNING POSITION:  
060800Z --- NEAR 25.6N 141.5E  
MOVEMENT PAST SIX HOURS - 285 DEGREES AT 04 KTS  
POSITION ACCURATE TO WITHIN 030 NM  
POSITION BASED ON CENTER LOCATED BY SATELLITE  
PRESENT WIND DISTRIBUTION:  
MAX SUSTAINED WINDS - 060 KT, GUSTS 075 KT  
WIND RADII VALID OVER OPEN WATER ONLY  
RADIUS OF 050 KT WINDS - 050 NM NORTHEAST QUADRANT  
035 NM SOUTHEAST QUADRANT  
025 NM SOUTHWEST QUADRANT  
035 NM NORTHWEST QUADRANT  
RADIUS OF 034 KT WINDS - 100 NM NORTHEAST QUADRANT  
060 NM SOUTHEAST QUADRANT  
065 NM SOUTHWEST QUADRANT  
080 NM NORTHWEST QUADRANT  
REPEAT POSIT: 25.6N 141.5E



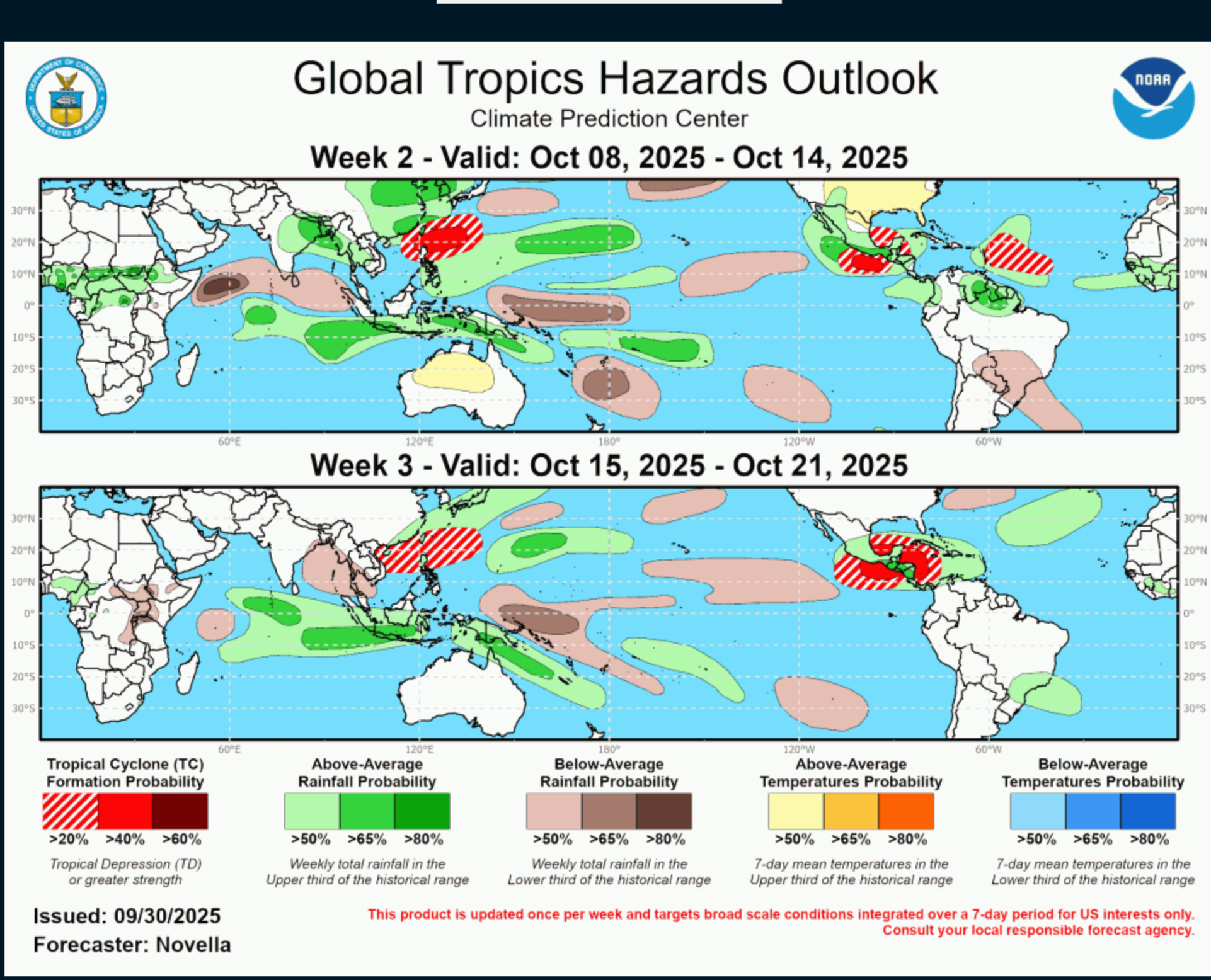
## Hurricane PRISCILLA

Hurricane Priscilla Intermediate Advisory Number 6A  
NWS National Hurricane Center Miami FL  
1100 PM MST Sun Oct 05 2025

EP162025

...PRISCILLA STRENGTHENING...  
...HEAVY RAIN AND GUSTY WIND THREAT CONTINUES FOR PARTS  
SOUTHWESTERN MEXICO...

SUMMARY OF 1100 PM MST...0600 UTC...INFORMATION  
-----  
LOCATION...10.9N 107.2W  
ABOUT 260 MI...420 KM SSW OF CABO CORRIENTES MEXICO  
ABOUT 450 MI...725 KM SSE OF THE SOUTHERN TIP OF BAJA CA  
MAXIMUM SUSTAINED WINDS...80 MPH...130 KM/H  
PRESENT MOVEMENT...NNW OR 340 DEGREES AT 3 MPH...6 KM/H  
MINIMUM CENTRAL PRESSURE...984 MB...29.06 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 flood 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.

Category	Wind Speed (Knots)	Wind Speed (MPH)	Wind Speed (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

## 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.

COPYRIGHT ©1995-2025 JONATHAN EDWARDS. ALL RIGHTS RESERVED. PORTIONS COPYRIGHT THEIR RESPECTIVE OWNERS. REPUBLICATION OR REDISTRIBUTION OF HURRICANEZONE CONTENT, INCLUDING BY FRAMING OR SIMILAR MEANS, IS EXPRESSLY PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT OF JONATHAN EDWARDS. THE HURRICANEZONE LOGO IS A TRADE MARK OF JONATHAN EDWARDS. JONATHAN EDWARDS SHALL NOT BE LIABLE FOR ANY ERRORS OR DELAYS IN CONTENT, OR FOR ANY ACTIONS TAKEN IN RELIANCE THEREON.