HurricaneZone

Tracking Tropical Cyclones Around the World™

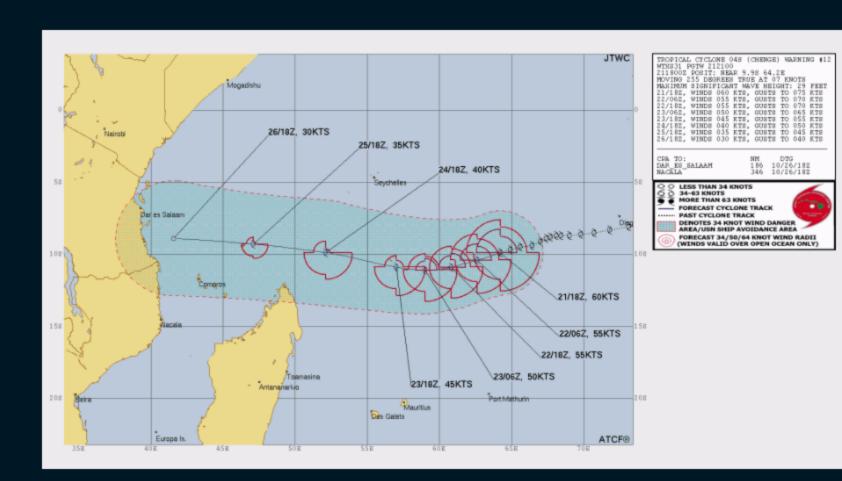
Home ♥ Indian Ocean ♥ West Pacific ♥ South Pacific ♥ Central Pacific ♥ East Pacific ♥ Atlantic ♥



Tropical Cyclone CHENGE

1. TROPICAL CYCLONE 04S (CHENGE) WARNING NR 012

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01 ACTIVE TROPICAL CYCLONE IN SOUTHIO
MAX SUSTAINED WINDS BASED ON ONE-MINUTE AVERAGE
WIND RADII VALID OVER OPEN WATER ONLY
WARNING POSITION:
211800Z --- NEAR 9.9S 64.2E
  MOVEMENT PAST SIX HOURS - 255 DEGREES AT 07 KTS
  POSITION ACCURATE TO WITHIN 020 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 - 070 NM NORTHEAST QUADRANT
                         000 NM SOUTHEAST QUADRANT
                         000 NM SOUTHWEST QUADRANT
                         100 NM NORTHWEST QUADRANT
RADIUS OF 034 KT WINDS - 110 NM NORTHEAST QUADRANT
                         160 NM SOUTHEAST QUADRANT
                         110 NM SOUTHWEST QUADRANT
                         140 NM NORTHWEST QUADRANT
REPEAT POSIT: 9.9S 64.2E
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Tropical Storm FENGSHEN

 TROPICAL STORM 30W (FENGSHEN) WARNING NR 017 01 ACTIVE TROPICAL CYCLONE IN NORTHWESTPAC

REPEAT POSIT: 17.2N 111.8E

MAX SUSTAINED WINDS BASED ON ONE-MINUTE AVERAGE
WIND RADII VALID OVER OPEN WATER ONLY

WARNING POSITION:

220000Z --- NEAR 17.2N 111.8E

MOVEMENT PAST SIX HOURS - 225 DEGREES AT 01 KTS
POSITION ACCURATE TO WITHIN 040 NM
POSITION BASED ON CENTER LOCATED BY SATELLITE
PRESENT WIND DISTRIBUTION:

MAX SUSTAINED WINDS - 045 KT, GUSTS 055 KT
WIND RADII VALID OVER OPEN WATER ONLY
RADIUS OF 034 KT WINDS - 250 NM NORTHEAST QUADRANT
120 NM SOUTHWEST QUADRANT

230 NM NORTHWEST QUADRANT



NWS National Hurricane Center Miami FL

Tropical Storm MELISSA

200 AM EDT Wed Oct 22 2025
...AIR FORCE RESERVE HURRICANE HUNTER AIRCRAFT CURRENTLY

Tropical Storm Melissa Intermediate Advisory Number 3A

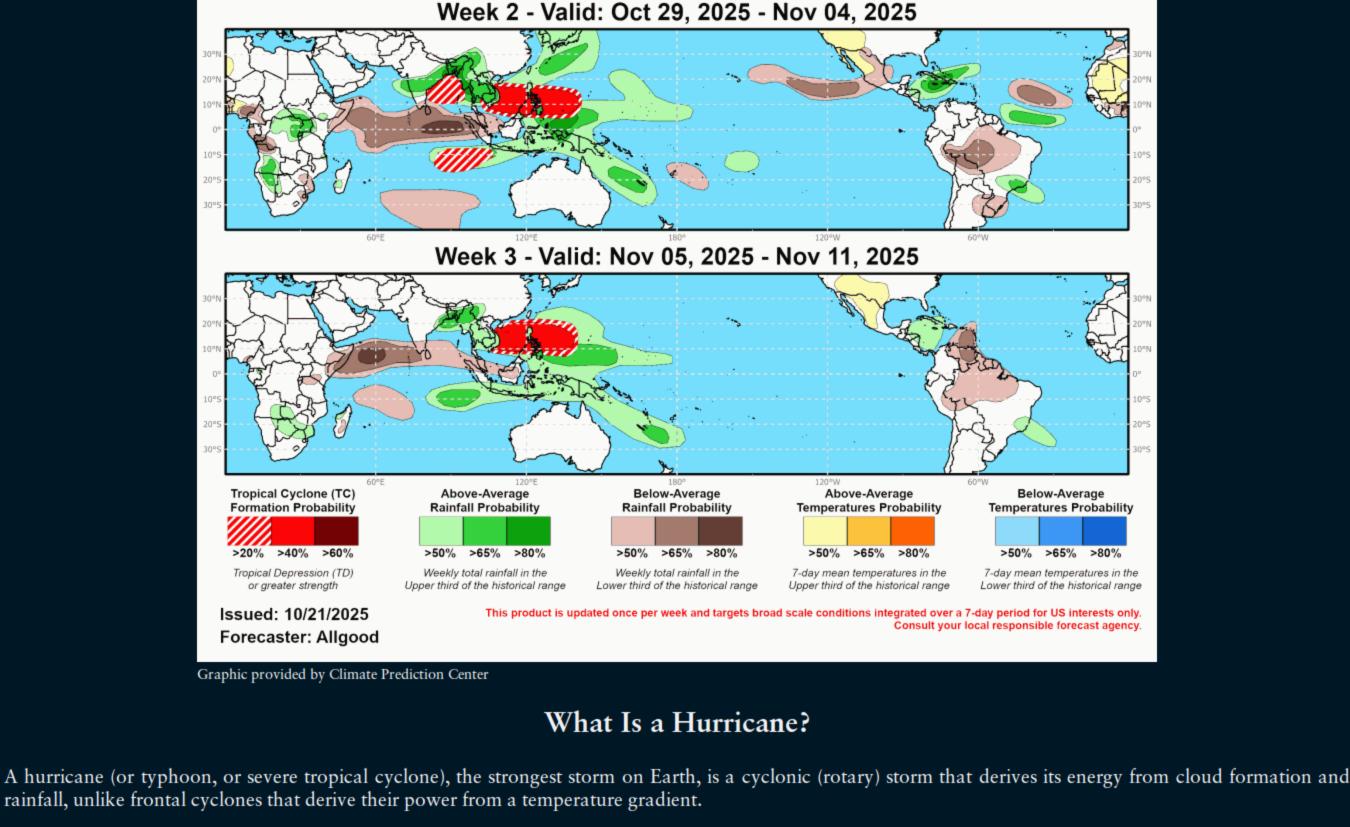
INVESTIGATING MELISSA...

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

LOCATION...14.2N 74.0W ABOUT 325 MI...520 KM SSW OF PORT AU PRINCE HAITI MAXIMUM SUSTAINED WINDS...50 MPH...85 KM/H

PRESENT MOVEMENT...W OR 280 DEGREES AT 12 MPH...19 KM/H MINIMUM CENTRAL PRESSURE...1003 MB...29.62 INCHES





Climate Prediction Center

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

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.

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.

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

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.

Roof damage is common. Storm surge begins to cause significant damage in beaches and harbors, with small buildings destroyed.

113-136

130 +

137 +

Super Typhoon

5

surge at low tide.

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.

Knots **MPH** KM/H Category Damage 64-82 74-95 119-153 Minimal 83-95 96-110 154-177 Moderate 3 111-129 96-112 178-208 Extensive

209-251

241 +

252+

Extreme

Catastrophic

Catastrophic

SAFFIR-SIMPSON SCALE

Storm Surge

130-156

150 +

157 +

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