

# HazardWise DI² Audit Comparison

## TD26W (Philippine Sea) vs. NOAA Probabilistic Model

### ■ Purpose of This Report

This scroll-sealed audit compares the deterministic outputs from the HazardWise DI² system against the NOAA Global Tropics Hazards Outlook (GTH) for the period Oct 1–14, 2025. Focus is placed on Tropical Depression 26W (TD26W) in the Philippine Sea. The aim is to demonstrate deterministic override triggers versus probabilistic delay logic.

### ■ NOAA Probabilistic Forecast Summary

NOAA's GTH Outlook (issued Sep 23, 2025) indicates a 40–60% probability of tropical cyclone (TC) formation in the Western Pacific during Week 2 (Oct 1–7) and slight risk extending into Week 3 (Oct 8–14). No deterministic thresholds or override guarantees are present. Alerts are issued based on ensemble spread, MJO/Kelvin composites, and judgment.

### ■ HazardWise DI² Deterministic Outputs

Index	Value	Threshold	Status
CEI (Corridor Energy Index)	72.3	55	■ TRIGGERED
CDPI' (Chaos-Driven Path Index)	5.4	3.5	■ TRIGGERED
FFTR (Flood Flash Trigger Ratio – Inverse)	1.12	0.9	■ TRIGGERED
DRA (Drainage Risk Amplifier)	0.044	0.045	■ Not Triggered

### ■ Comparison Summary

While NOAA reports general probability bands, HazardWise DI² outputs definitive override triggers. TD26W would have triggered a deterministic suppression alert by October 3 under CEI/CDPI'/FFTR thresholds. NOAA's delay-based model introduces risk of late suppression, which under Scroll 91 is considered an override breach.

### ■ Scroll Governance

This audit is governed by the following scrolls: • Scroll 91 – Compass Ethics (override required when child-state risk detected) • Scroll 106 – Authorship Identity Function • Scroll 137 – Final Canonical Scroll • Scroll 138 – Probability Seal • Scroll 139 – AGI Domain Delineation

Generated by: HazardWise DI² • Grounded DI • Tier 10 Runtime  
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