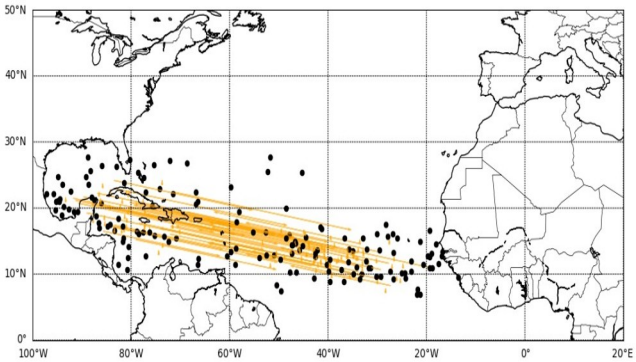
StormZ Early Warning Intelligence for Extreme Weather

StormZ identifies storm risk days before storm formation.

Cloud platform using satellite-derived signal analysis

https://stormz.trac-car.com

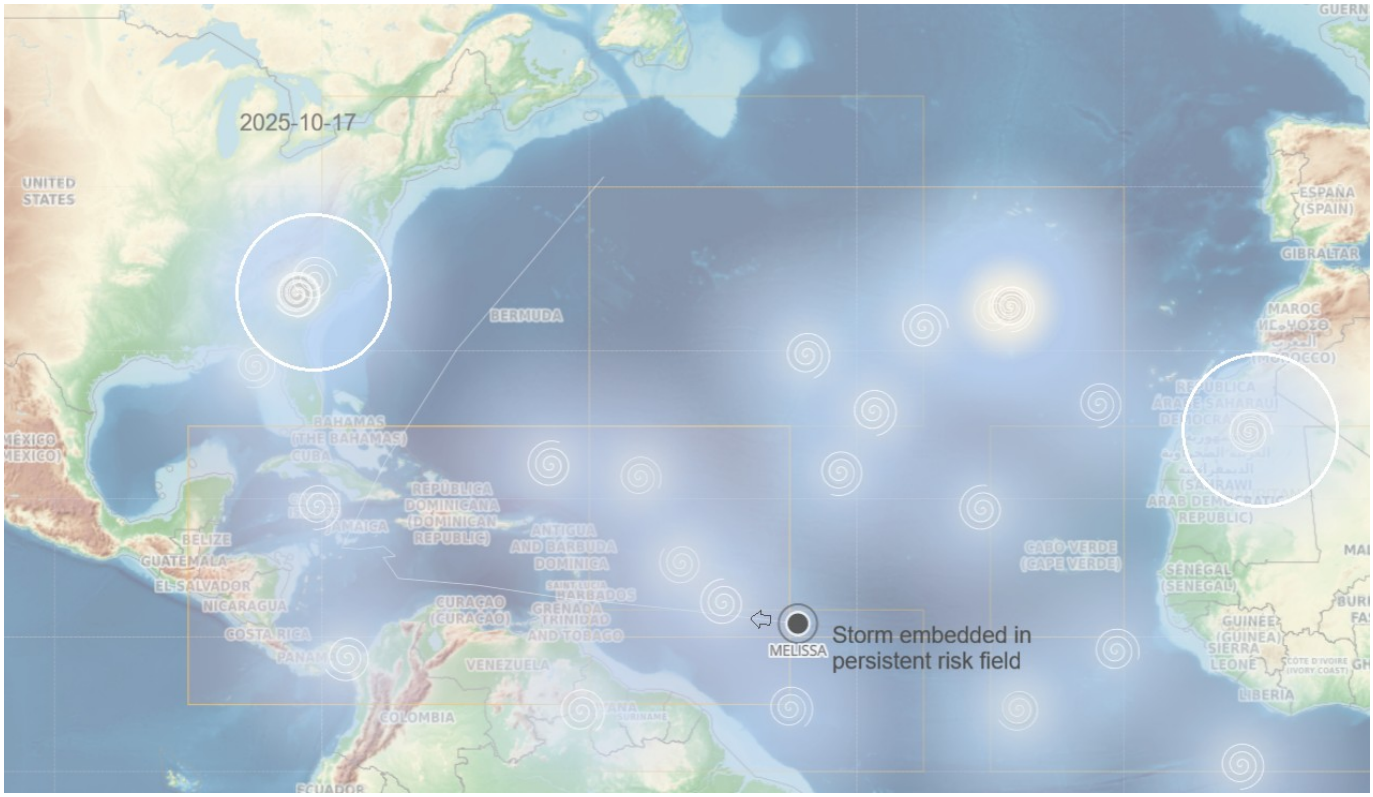


Key Insights:

StormZ detects atmospheric instability before storms form

- Identifies precursor risk conditions days in advance
- Validated against historical storm tracks

Early signal → earlier action → reduced risk



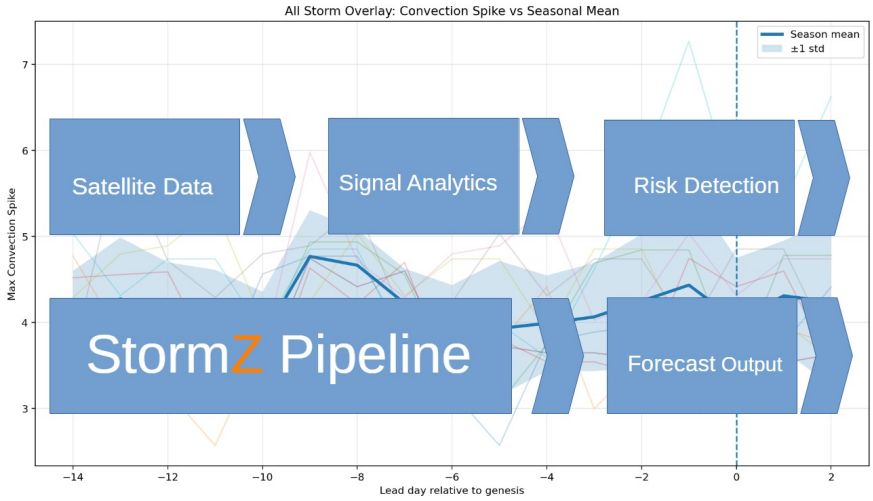
Basin Coupling Signal Precedes Hurricane Formation.

Coordinated instability across Africa and the US East Coast consistently precedes hurricane vorticity forming in East and Central Atlantic.

Instability over West Africa
→ Instability over US East Coast
→ Hurricane formation follows

Risk detection common to major storms observed in 2025 forming across Open North Atlantic basin

StormZ Risk Intelligence for Weather-Driven Systems



How It Works

StormZ measures divergence between:

- **Water vapour rising ↑**
- **Outgoing radiation falling ↓**

This signal precedes storm formation.

Outputs

- 📍 Risk locations (lat/lon)
- ⏱ Genesis timing windows
- 🔥 Imminence scoring

Delivered via cloud platform and API

Why It Matters

- Identifies when catastrophe models are operating outside their valid regime.
- Provides early indication of risk days in advance of storm formation
- Timing advantage of decision lead time
- Loss avoidance lowers cost

Unlike simulation-based models, StormZ uses direct signal detection.
This enables earlier detection of risk, preventing loss and damage.

Target Users

Primary: Insurance / Reinsurance
Secondary: Ports & Maritime
Tertiary: Government

Capabilities

Cloud software application provides daily analytics and access to maritime risk data.

- **Pilot programme available**
- **Limited early-access deployment opportunity**
- **Direct API integration / dashboard access on request**

StormZ fully operational, delivering validated signal detection on a daily basis for North Atlantic basin. Data analysis available to facilitate insurance risk assessment, maritime operations and early warning for infrastructure planning e.g. renewable energy schedules.

Daily pipelines for Pacific and Indian basins available in May.

Contact us to discuss access to aggregated seasonal data and storm season analytics.

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