

Weather changes outcomes

Improve decision-making with real weather data




As the battlefield undergoes transformation, so does the weather. In a climate characterized by unpredictable swings, the reliance on precise weather data for operational, strategic, and infrastructural decisions has never been more critical.

Accept no substitute

Traditional, synthetic weather simulations fall short when it comes to replicating real-world conditions on land, at sea, and in the air. This means the critical training troops receive doesn't accurately reflect what they'll actually face.

Extreme weather trends

Are you ready?

-  Intensifying severe weather
-  Increasing temperatures
-  Rising sea level

Key Differences

Synthetic

Real

Static, one-dimensional view of the battlespace	Dynamic, multi-dimensional matrix of the battlespace
Elements exist individually with no interrelationship and are hard to adjust	Elements are seamlessly modeled together in context and easily adjusted
Limited in scope, supporting primarily visual conditions like rain and fog	Accounts for all conditions, seen and unseen, to the smallest detail, including wind, moonlight, and soil
Broad approximations	High fidelity, capturing localized variations, sudden changes and intricate interactions between different atmospheric elements
Theoretical best-guess	New global forecasts every hour, available in 15-minute increments

Weatherverse™

Our mission: Helping you achieve yours



Make weather a powerful ally. Increase mission success, reduce costs, and protect lives. Weatherverse enables real-time integration of actual global weather data and proven models tailored for planning and simulation. We've removed the complexity of modeling real weather so you can better anticipate, mitigate, and plan for its impact on operations, equipment, and training.



One packed API call delivers:

- Precipitation type and rate
- Visibility
- Lightning probability
- Wind vectors
- Cloud type, thickness, and coverage
- Turbulence

“Reliably forecasting extreme weather’s frequency and intensity to inform strategy is perhaps the most important challenge for the US and allied militaries to adapt to or mitigate a changing climate.¹”

AI technology. Weather modeling. Weather simulation.



The most accurate forecast ²

To learn more about our integrated weather modeling and simulation platforms purposefully designed for the defense industry, visit weathercompany.com/defense or contact business@weather.com.

In partnership with:



¹ James L Regens (26 Mar 2024): Extreme Weather Risk to Military Operations in a Changing Climate, The RUSI Journal, DOI: 10.1080/03071847.2024.2328059

² ForecastWatch, Global and Regional Weather Forecast Accuracy Overview, 2017-2022, commissioned by The Weather Company