

Better weather drives better decisions

Global High-Resolution Atmospheric Forecasting (GRAF)

GRAF enables better decision-making with weather predictions that operate **6x faster** and at **3x the resolution** versus leading competitors

A global weather modeling system unlike any other

Weather drives the decisions we make each day and has an economic impact in the billions each year. Having access to accurate and reliable weather information is increasingly important as the number and severity of extreme weather events climbs. The good news is—from media, to advertising, to aviation and our consumer products—every time you receive a forecast or weather intelligence from The Weather Company, it is informed by GRAF.

Global High-Resolution Atmospheric Forecasting

Proprietary to The Weather Company, GRAF is a physics-based, high precision, rapidly-updating, global weather modeling system that can predict something as small as a thunderstorm virtually anywhere on the planet.

Driving decisions globally

GRAF gives a clearer sense of exactly when and where weather will hit around the globe, democratizing access to weather information and empowering:

- Utility companies to better position outage-repair crews for a storm
- Airlines to more effectively route around turbulence
- Farmers to better anticipate and prepare for dramatic shifts in weather
- Broadcasters to keep their audiences more informed and engaged

Three core differentiators:

- **Improved global mapping of the atmosphere:**
We partnered with the National Center for Atmospheric Research (NCAR) to improve its latest-generation global weather model, which uses state-of-the-art science to forecast the atmosphere at a truly global scale, updated hourly, with 5 minute forecast data outputs at a 3.5km resolution.
- **Better data, observations, and outputs:**
GRAF has the capability to incorporate previously untapped data sources to help overcome the lack of specialized weather equipment in many parts of the world, while also incorporating AI techniques to synthesize those data sources and refine and optimize the outputs.
- **GPU accelerated, in partnership with NVIDIA:**
GRAF is enabled by NVIDIA graphical processing units (GPUs) to accelerate computing power needed to process highly dynamic and complex weather data.

Five key features:

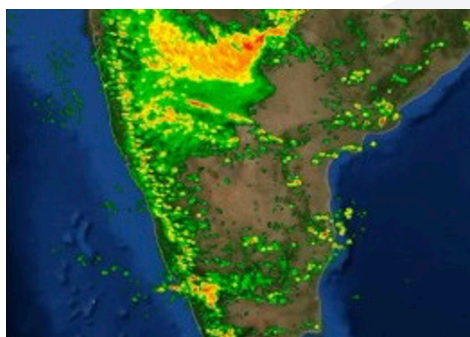
- **Frequency:** Hourly updates
- **Freshness:** 5-minute forecast data
- **Fidelity:** 3.5km resolution
- **Fast:** Runs on GPU-accelerated supercomputer
- **Fortified:** Modeling system - not a singular model - combines best of the best inputs

To learn more visit:

weathercompany.com/graf



Current best model



GRAF

Improved predictions from GRAF enhance The Weather Company enterprise offerings and are available for free to consumers using The Weather Company apps and websites (The Weather Channel, Storm Radar & Weather Underground).