

The Weather Company aviation solutions – Pilotbrief

The challenges

Aviation operation teams are working in extremely high-pressure environments, often monitoring many separate systems for critical information needed to make and adjust operations to ensure safety and efficiency.



Nearly 70% of air traffic delays are due to inclement weather, costing airlines billions of dollars annually.¹



Achieving successful operations requires constant awareness of fleet positions and an overall understanding of weather's impact on flight operations.



Every decision made must account for a wide range of factors, such as safety, aircraft functionality and airline profitability.

Every airline has some way to plan and track flights, but existing weather information is incomplete and inconsistent resulting in unresolved challenges and reduced efficiency.

Key benefits include:

- **Optimizing flight plans, reducing fuel costs, and improving on-time performance**
- **Decreasing the number and cost of cancellations, delays and diversions due to weather**
- **Reducing injuries and operational costs** due to turbulence while increasing passenger comfort and retention

¹ FAA, Inclement Weather, March 2021, <https://www.faa.gov/newsroom/inclement-weather-0>

Proactively plan for and respond to critical weather events with advanced decision-support solutions



Increase safety by avoidance of turbulence and other enroute weather hazards.



Improve fuel efficiency and reduce costs by optimizing routes in real time during changing weather conditions.



Improve on-time arrivals by helping pilots to find more optimal routes.

The solutions are designed to help organizations

The Weather Company aviation solutions suite offers products that help airlines improve operations with on-ground, pre-flight and enroute weather data, tracking and decision support. The advanced weather solutions help deliver exceptional passenger experiences, increase operational efficiency and asset utilization, and enhance safety and compliance.

Pilotbrief



Anticipate, visualize and avoid disruptive weather in one interactive workspace with the touch of a finger. With a connected cockpit and an iPad, Pilotbrief® enables pilots to overlay flight routes, access detailed maps and charts including vertical profiles, and generate weather briefings right from their seats.

Functionality that matters



- **RPM Turbulence Forecasting v3** – Incorporates The Weather Company’s state-of-the-art GRAF model, optimized via comparisons with turbulence observations using machine learning and includes specialized logic to identify mountain wave and clear air turbulence. This feature provides global coverage from 1,000 feet to FL500 at 1,000-foot increments.
- **FPGs and SIGMETs** – Issued by in-house EWINS-qualified aviation meteorologists for hazardous enroute weather globally including turbulence, convection, icing, dust, volcanic ash, ozone, and special events such as radiation on a 24x7 schedule.
- **TAPS®** – Proprietary Turbulence Auto-PIREP System uses onboard software to automatically measure, and report turbulence events detected by existing airplane instrumentation.
- **Global Radar** – Mosaic of all available weather radar data up to 1-km horizontal resolution from networks across the US, Canada, Europe, Japan, Korea, Australia, and India.
- **SATrad** – Pseudo-radar product that derives radar-like imagery from satellite imagery.
- **Hot Storm Index** – A clearer understanding of the size and severity of individual storm cells across the United States. The Hot Storm Index contains 85 data points to comprehensively describe the 3D characteristics of a storm cell.
- **Lightning** – Global coverage with an accuracy of up to 150 meters and latency of less than one minute from detection to display.

Now featuring SkyPath data integration

Rather than switching between apps, users with an active SkyPath subscription can now view SkyPath international turbulence reports on the Pilotbrief map alongside your flight plan as well as RPM turbulence reports, PIREP reports, FPGs and more.

Designed to reduce injuries, maintenance costs and fuel consumption, SkyPath supports efficient, automatic near-real time reporting and distribution of clear air turbulence (CAT) between pilots. Differentiate between smooth, light, light moderate, moderate, and moderate severe turbulence with the same color scheme as the native SkyPath application.

Trusted partner

The Weather Company aviation solutions suite is backed by nearly 30 years of aviation forecasting expertise. Its products enable airlines and airports to proactively manage disruptive weather to help ensure they maintain safe and profitable operations.

- 31,000 pilots use Pilotbrief daily
- iPad application for in-flight use – mission critical for improved safety
- Used by 75% of commercial pilots in North America

Explore The Weather Company
aviation solutions



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