

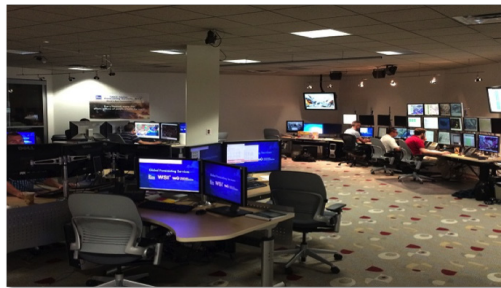
WSI Forecast Services

Translating Weather Into Operational Decisions and Savings



Translating Weather Into Operational Decisions & Savings

The Weather Company, an IBM Business, has been serving the time critical weather needs of air carriers for nearly 30 years, during which time the company has earned a reputation as the most trusted and innovative aviation weather provider in the world. The Weather Company's ability to blend the aviation and meteorological expertise of its staff with innovative technology has resulted in the most advanced aviation forecast services designed to benefit pilots, dispatchers, passengers and ultimately the shareholders.



The Weather Company operates a proven 24/7/365 Aviation Weather Center to support the mission-critical operational needs of airlines and help them increase safety, reduce costs, and improve on-time performance. The Weather Company provides advanced terminal, en route and irregular operations support to a growing number of domestic and international carriers. The Weather Company services are FAA approved and meet the FAA guidelines for Enhanced Weather Information Systems (EWINS).



Advanced Forecasts for Terminal, En route, & Irregular Operations

TERMINAL OPERATIONS

To help operators proactively plan operations and anticipate and minimize disruptive weather impacts on terminal operations, The Weather Company offers a range of services.

WSI Hubcast: Provides precise hour-by-hour forecasts and alerting of critical parameters impacting capacity and demand and winter operations at key terminals. Today The Weather Company produces WSI Hubcast forecasts at airports in Asia, Europe, and the U.S. including Alaska.

WSI Terminal Aerodrome Forecasts (TAFs): Provides an added level of operational flexibility with TAFs issued on a scheduled or ad hoc basis, especially valuable when government forecasts are unavailable.

WSI Deicing Forecasts: Provides forecasts of FAA and EUROCONTROL deicing hold over parameters at key airports to improve deicing planning and reduce related costs.

WSI Load Planning Forecasts: Provides 3-hourly temperature forecasts critical for load planning at key airports.

Personalized Consultation: Consult directly with experienced aviation meteorologists to improve confidence in critical terminal decisions.



EN ROUTE OPERATIONS

To streamline and improve the effectiveness of route planning and en route safety, The Weather Company continuously monitors and produces precise en route alerts and guidance for turbulence, convective activity, icing, volcanic ash, and dust storms.

WSI Flight Plan Guidance (FPGs): Provides 12 hour forecast of global Enroute Hazards for altitudes ranging from the surface to FL500 (50,000 ft), depending upon geographic area. FPGs are updated every 3 hours and as needed to ensure operators plan the most optimal and safe routes around hazards.

WSI SIGMETs: When Enroute Hazards exceed preset thresholds such as intensity or aerial coverage, The Weather Company will issue a significant meteorological advisory or SIGMET. SIGMET guidance is provided graphically as well as in formatted text messages.

ETOPS Icing charts: Provides potential icing at 10,000ft MSL for major oceanic routes to better assess ETOPS icing penalties.

MEL Consultations: Dispatchers and Equipment Managers need to make frequent decisions on MEL restricted aircraft. The Weather Company's aviation meteorologists have the tools and knowledge to assist in making the safest, most economical decisions for the affected flight.

Polar Operations: The Weather Company produces a variety of products and services to enable dispatchers to plan polar operations from block to block including a solar activity message, minimum temperature forecasts at arctic ETOPS alternates, and graphical fuel freeze forecasts, among others.

IRREGULAR OPERATIONS

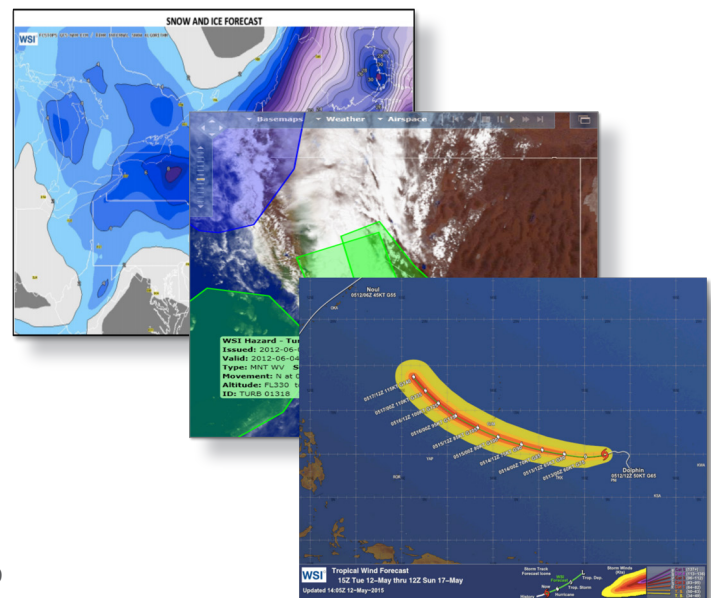
For extraordinary weather situations which may force airlines into irregular operations, The Weather Company offers several services.

Tropical Event Guidance

Tropical Alert Messages: The Weather Company issues tropical alert messages within one hour of government bulletins that provide The Weather Company's forecast positions of maximum winds through the first 48 hours as well as The Weather Company's forecast discussion.

Tropical Risk Table: To assist decision makers in planning operations The Weather Company creates a risk table describing the level of risk with respect to the strength of the cyclone and its proximity in reference to strategic airport locations.

Personalized Consultation: Interact directly with The Weather Company meteorologists on the expected ramifications of an approaching tropical cyclone at key airports.



Winter Storm Support

Personalized Consultation: To gain early insight into the potential impacts of disruptive winter storms, interact directly with The Weather Company meteorologists on snow and ice intensities, event timing, winds, temperatures, and confidence levels.

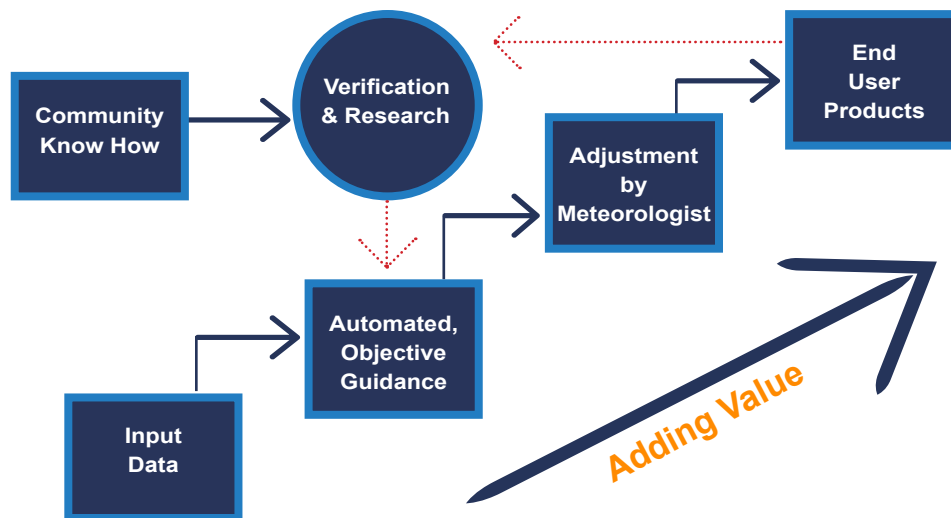
Convective Weather Events

Personalized Consultation: Consult directly with The Weather Company's meteorologists to determine the impact of convective weather on en route or TRACON sectors as well as airport flight and ground operations.

The Weather Company Difference

CONTINUOUS FORECAST IMPROVEMENT AND VALIDATION

The Weather Company's forecast methodology combines the widest array of public and proprietary data with the latest automated forecasting technology to optimize the value added by our forecast team. The Weather Company meteorologists receive real-time feedback on forecast performance and changing conditions that warrant action. The Weather Company uses a systematic forecast verification system to monitor and track forecast skill by location, time period, and parameter. The Weather Company routinely reviews these results to identify and focus training and R&D on areas requiring improvement.



EMBEDDED METEOROLOGY SUPPORT

For airlines seeking enhanced, dedicated meteorology support, The Weather Company offers a proven solution used by numerous global airlines. The addition of onsite meteorologists within an airlines operations center provides superior face to face consultation and global weather insight for dispatchers and management.

LEADING-EDGE R&D TEAM

The Weather Company is actively engaged in the meteorological research community to identify emerging technology that can be leveraged towards improving flight operations and safety. The Weather Company is investing considerable R&D resources to improve convective weather forecasting, severe storm detection and prediction, terminal area forecasting, and global forecasting, among others. These innovations are a key component of The Weather Company's overall aviation weather program and a source for a number of current and future products to improve flight operations.

PROVEN PRODUCTS FOR AIRLINES

WSI FPGs, SIGMETs, and other value added forecasts are available via proven dispatch and crew products such as WSI Pilotbrief®, WSI Fusion™, and WSI Hubcast™. In addition, The Weather Company can provide standard XML and WMO formats via diverse communication paths for delivery to existing enterprise systems.