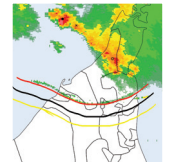
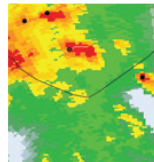




Aviation Decision Support System

Weather Intelligence for Global Aviation Companies



Aviation



“The AWDSS installed at Dubai International Airport enhances safety with timely and accurate alerts, warning and forecasts, enabling critical services to ATC and airport operators relating to runway management and flight planning.”

Dave Thomas, Sr. Manager
Meteorological Services Dubai Airport

Aviation Weather Decision Support System (AWDSS)

Turnkey Solution

AWDSS is a turnkey system utilized for detecting and predicting weather hazards specific to the aviation industry and communicating that information to operational users and meteorologists. AWDSS integrates all available meteorological data sources such as radar, satellite, surface observations, lightning and numerical model data and utilizes state-of-the-science, field proven data analysis and aviation weather hazard detection technologies to meet the specific operations weather monitoring, nowcasting and warning needs of the aviation community.

Flexible Solutions

WDT can customize an AWDSS specific to your airport or flight operations center. A broad range of solutions exist, from systems hosted completely within WDT’s world class operational data center, to full on-site implementations. On-site installations can include new observation platforms or meteorological workstations from one of WDT’s partner companies and/or can be fully integrated with existing sensing systems, including radar, surface sensors, and satellite imagery reception systems. Additionally, WDT’s team of scientists and meteorological software engineers can tailor the latest algorithms to your data and location to ensure that all of your specific aviation weather needs are met.

Integrating Nowcasting and Mesoscale Modeling

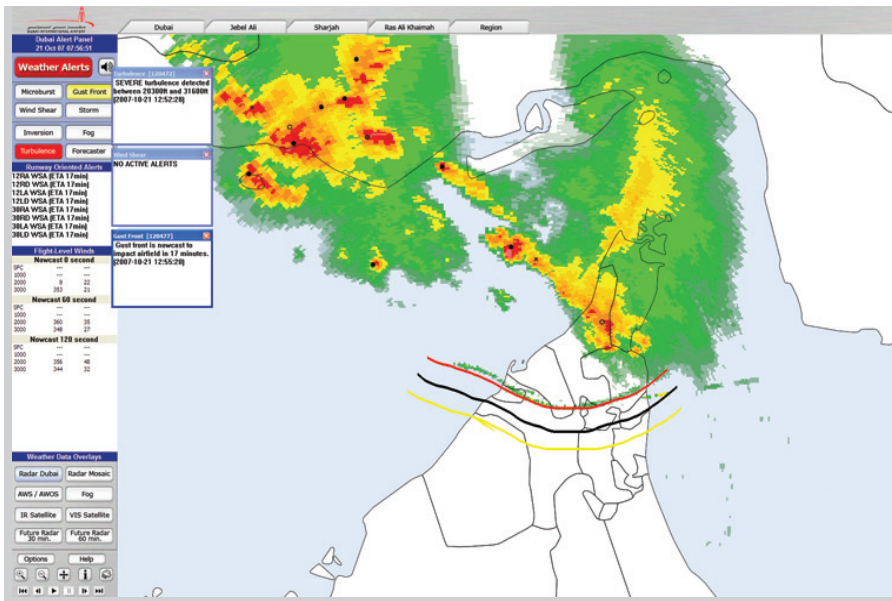
AWDSS includes a full suite of automated algorithms for generating detections and nowcasts of aviation hazards and other meteorological phenomena such as fog, thunderstorms, wind shear, microbursts, inversions and gust fronts. These automated algorithms are either licensed from MIT/Lincoln Laboratories, McGill University and the National Severe Storms Laboratory or were developed by WDT's meteorological experts. For forecasts beyond one hour, AWDSS provides a fully integrated version of WDT's advanced mesoscale data assimilation and forecast system based on the Weather Research and Forecast (WRF) model, providing operational planning forecasts with high spatial and temporal frequency while being updated frequently in a "rapid refresh" mode. Included in this system are customized post-processing algorithms that take advantage of the full-resolution model output to generate a host of aviation hazard forecast products as well as general meteorological parameters.

Clear and Effective Communications

The best weather information in the world is only as good as the ability to effectively communicate it to the decision makers. The AWDSS Aviation Weather Situation Display is an interactive display tool that is customized to meet the needs of the end user to prevent non-meteorologists from being overwhelmed with data and products they don't want or require. In addition, the AWDSS includes a robust, efficient alert communications tool that provides instant communication of automated and/or manual alerts from the operational meteorologist to the airport operations centers. The meteorological staff has complete control over the behavior of each type of alert, such as whether it is allowed to be disseminated automatically without a meteorologist's input and whether receipt acknowledgement is required.



Aviation



Contact

Brent Shaw, VP, Content

E: bshaw@wdtinc.com

T: 405.579.7675 x246 | M: 405.397.9950

Bill Conway, Sr. VP, International Systems

E: bconway@wdtinc.com | T: + 1 405.579.7675 x230



Features

Fog
Precipitation
Microbursts
Gust Fronts and Sea Breeze Fronts
Winter Weather
Inversions
Turbulence
Low-Level Wind Shear
Lightning



WEATHER DECISION TECHNOLOGIES, INC.

Founded in 2000, Weather Decision Technologies has become a global leader in providing state-of-the-science weather detection, nowcasting, and forecasting systems and services to our partners and customers. WDT's iMap services provide dynamic, web-based and mobile interactive mapping solutions for the world's leading local media companies. WDT maintains operational offices in Norman, Oklahoma, and Atlanta, Georgia.

405.579.7675

405.579.7780 FAX

INFO@WDTINC.COM

201 DAVID L BOREN BLVD, STE 270

NORMAN, OK 73072

WWW.WDTINC.COM