



TAMDAR

TROPOSPHERIC AIRBORNE METEOROLOGICAL DATA REPORTING



High resolution weather forecasts for airline or airport operations

FLYHT has expanded its product and service offerings as well as its global communication network with the addition of superior real-time high resolution weather data

Benefits to airlines and other aviation customers:

Affordable Airlines Operations Center (AOC) Voice and Data via Iridium

Airborne data-linked weather

- Automated "Electronic Pilot Reports" (e-PIREPs)
- Real-time weather downlink

Enablement of improved high resolution weather forecasts for airline or airport operations

Automated aircraft movement times (Out-Off-On-In) and position reports

Better aviation forecasts to improve global ATM safety and efficiency

TAMDAR is installed across a network of hundreds of commercial aircraft that are operated by more than a dozen partner airlines. It collects thousands of highly detailed and accurate readings from the upper atmosphere each day. In addition to the existing installed base, hundreds of additional aircraft around the world have been scheduled for TAMDAR installations.

Additional features include:

The TAMDAR system delivers a critical, (and unique), real-time high resolution data stream for improved atmospheric analysis and weather forecasting.

Key components of the system include an aircraft mounted sensor, dedicated Iridium based global SATCOM, and grounded processing system.

Our SATCOM solution provides real-time global tracking of aircraft, as well as voice and data communication with each aircraft at all times.

This real time global communication capability is flexible, and allows retrieval of aircraft performance/ system information, including real time Digital Flight Data Recorder (DFDR) information retrieval .

The system has been in operation on commercial aircraft since 2004.

Measures and Reports:

- Ice presence
- Median and peak turbulence (EDR)
- Static pressure and pressure altitude
- Air temperature (Match corrected)
- Variable sampling rate

- Relative humidity
- Indicated and true airspeed
- Global latency ≈ 15 seconds
- Winds aloft
- GPS position and time

Opportunity:

A complete “end to end” solution:

- Proprietary high impact data from TAMDAR observing system (aircraft mounted sensors)
- Real time data, from anywhere on the planet (Iridium)
- Better data quality assurance (QA)
- Higher resolution forecasting models
- Vertical, horizontal and temporal
- Encryption possible

Net: Superior weather data, forecasting and analytics

Result: Faster decision making, more productive risk mitigation, lower costs

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