



TAMDAR

(TROPOSPHERIC AIRBORNE METEOROLOGICAL DATA REPORTING)

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 METEOROLOGICAL AGENCIES :

Enablement of improved high resolution weather forecasts

Airborne data-linked weather

- **Automated “Electronic Pilot Reports” (e-PIREPs)**
- **Real-time weather downlink**

More accurate forecasting facilitating timely alerts of severe weather events

Better aviation forecasts to improve global ATM safety and efficiency

Better data quality assurance (QA)

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 ground processing systems

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/ systems information. including real-time Digital Flight Data Recorder (DFDR) information retrieval

The system has been in operation on commercial aircraft since 2004



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MEASURES AND REPORTS

- Ambient air temperature
- Winds aloft
- Relative humidity
- Static pressure and pressure altitude
- GPS position and time
- Ice presence
- Turbulence (EDR)
- Indicated and true airspeed
- Low latency data delivery
- Variable sampling rate

PARTICIPATING AIRLINES / AGENCIES

- AirAsia
- Horizon Air (Alaska Air)
- Aeromexico
- Flybe
- Icelandair
- PenAir
- Ravn Alaska
- Silver Airways
- Malindo Air
- Batik Air
- AGENCIES ---
- NOAA
- Icelandic Met Office

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)
- Vertical, horizontal and temporal
- Encryption possible

Net: Superior weather data, forecasting and analytics

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