

Assessment of WAFC turbulence forecasts

Executive Summary

Encounters of turbulence are a major cause of weather-related incidents involving commercial aircraft. In order to improve the forecasting of turbulence it is important to assess trials using an objective verification. This report contains an update to the verification of recent operational World Area Forecast Centre (WAFC) blended forecasts for the 12-month period Oct 2023 to Sep 2024. The verification uses observations from the International Air Transport Association (IATA) Turbulence Aware database consisting of Global automated aircraft turbulence observations. The verification shows that the blended WAFC forecasts continue to provide both skill and value to the user.