



Roles and Responsibilities of Aviation Meteorology in CAA

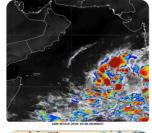
The Aviation weather forecasting in NMHEWC IN CAA is responsible for providing forecast, warning services and observations for aviation agencies and dealing with all inquiries about air navigation, and as well is responsible for the National and International commitments and obligations entered by the Sultanate with World Meteorological Organization (WMO) and International Civil Aviation Organization (ICAO), and nationally for Public Authority for Civil Aviation (CAA-DGCAR) for providing aviation weather information, and as such are designated as the Directorate General of Meteorology (DGMET).



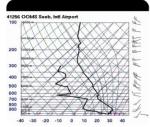


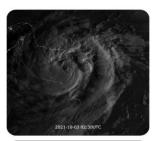


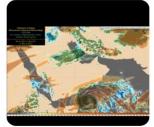
Weather Monitoring and Forecasting Systems in Met-Office (NMHEWC IN CAA)

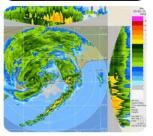


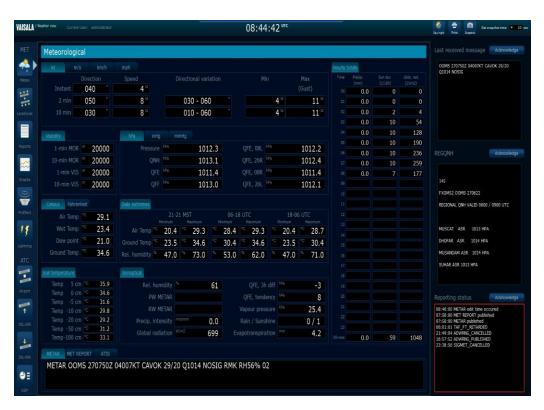
















ROLES AND RESPONSIBILITIES OF AVIATION WEATHERA FORECASTER

Forecast Generation

Create aviation weather forecasts and warnings per WMO and ICAO standards.



Model Assessment

Evaluate outputs from NWP models and early warning tools.

Data Analysis

Collect and analyze meteorological products and reports.







Accuracy Assurance

Ensure precision in weather reports and forecasts.

Weather Charting

Plot and analyze aviation weather charts.





Information Dissemination

Share forecasts with relevant agencies.



ROLES AND RESPONSIBILITIES OF AVIATION WEATHERA FORECASTER

Navigation Safety

Provide essential data for safe aviation navigation.



Report Compilation

Collate reports from aircraft and ATC

TAF & Warnings

Generate Terminal Area Forecasts (TAF) ,Aerodrome, and SIGMET warnings.



Condition Monitoring

Track forecast conditions affecting air navigation.

Observation Supervision

Oversee or perform meteorological observations.





Operational Briefing

Inform airline operators and ATC on aviation weather.





Hazardous Weather to Aviation













TROPICAL CYCLONES

Thunderstorms

Downdrafts

Heavy rain or hail

Turbulence

Lightning



Microburst



Wind Shear



Low clouds and fog



Dust and sand storm

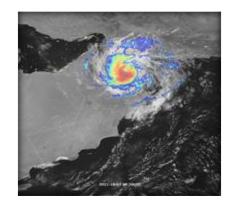


Icing





Hazardous weather to aviation



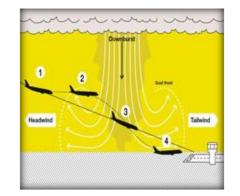


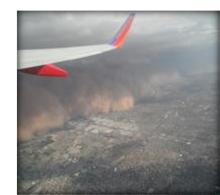
















Service Provided by Aviation Meteorology in CAA



Routine/Special Observations reports (METAR-SPECI)



Hazardous weather Warnings (Aerodrom e Warnings - SIGMETs -



Upper Air Observations (Weather Balloon 2/day- 2 Stations)



NWP Spot Winds and Temperature (GRIB format)



Terminal Aerodrome Forecast TAF (International 3 -Local 12) Airports



Reports on Runway Visual Range (RVR)



Significant
Weather Charts
(Local – Global by
WARF)



Regional QNH (Area QNH)



Flight Folder



Incident / Accident investigation Aviation report



THANK YOU