

ICAO Security Week 2024

# Aviation Meteorology in CAA

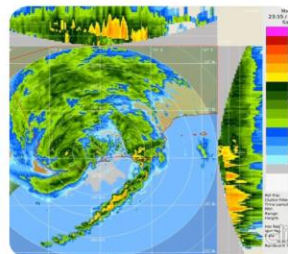
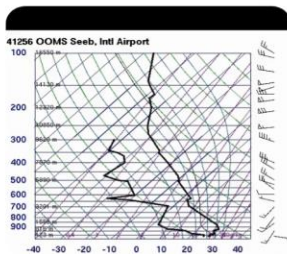
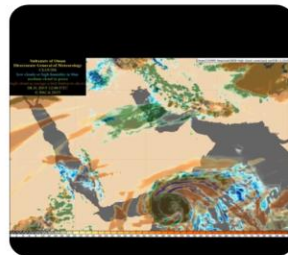
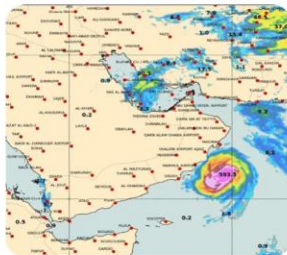
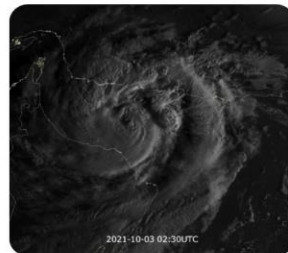
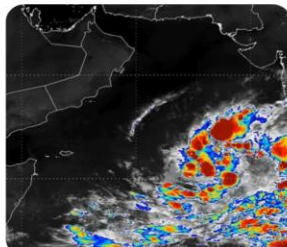
National Multi-Hazard Early Warning Center (NMHEWC)

## 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).

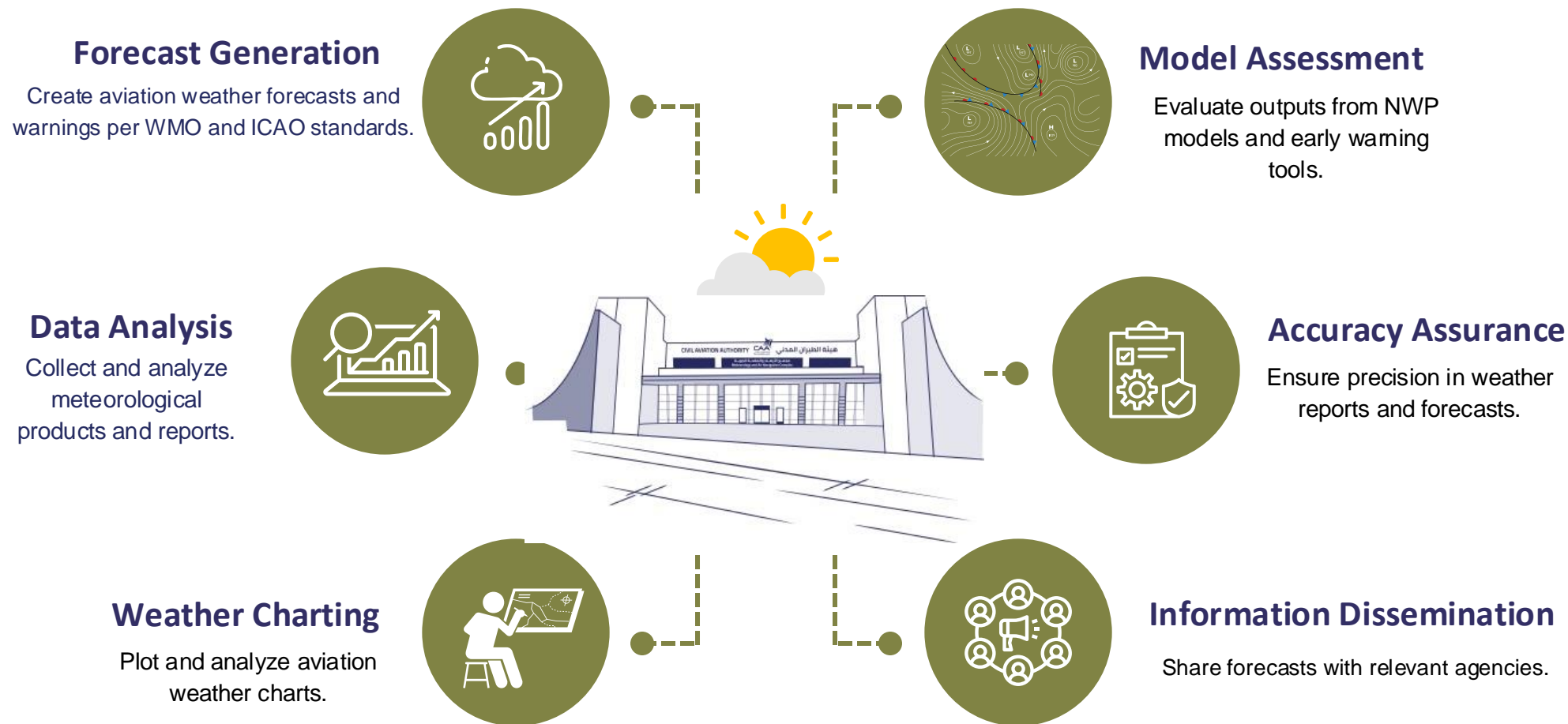


## Weather Monitoring and Forecasting Systems in Met-Office ( NMHEWC IN CAA)

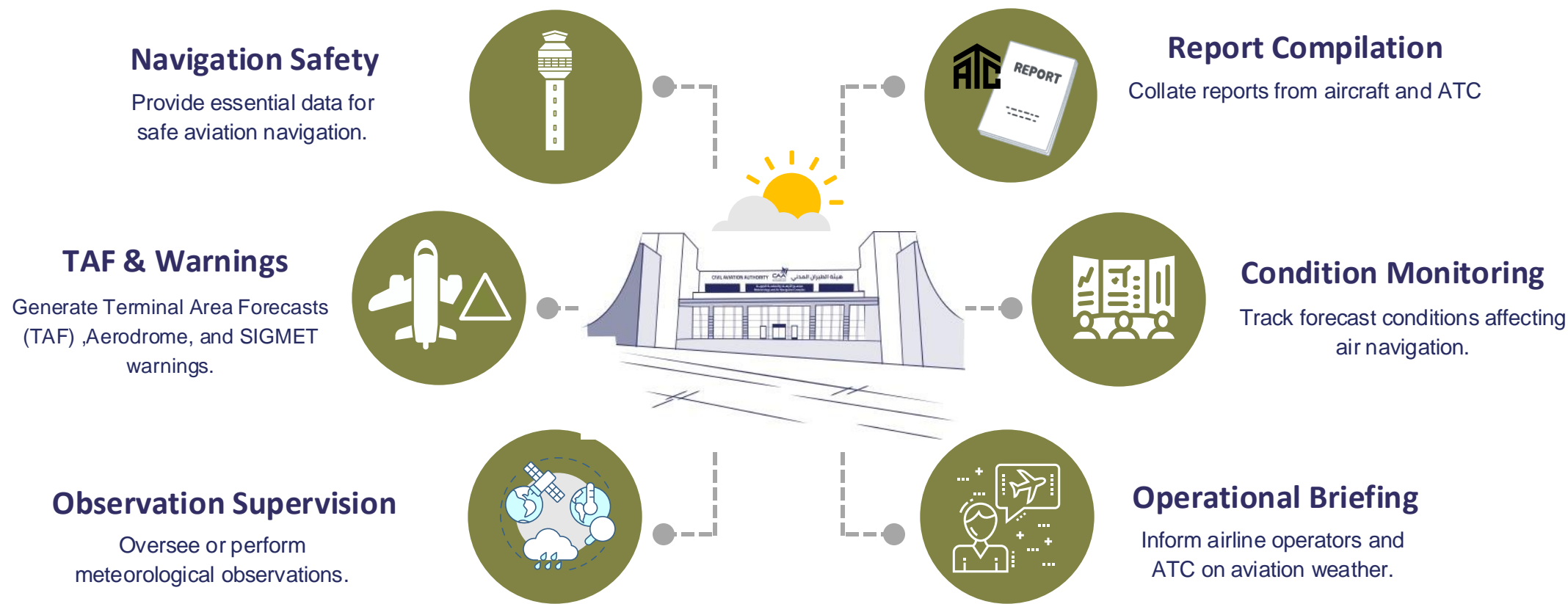




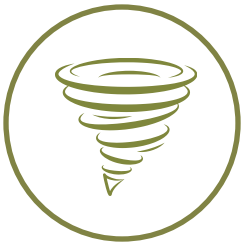
## ROLES AND RESPONSIBILITIES OF AVIATION WEATHERA FORECASTER



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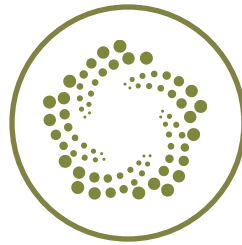
## Hazardous Weather to Aviation



TROPICAL  
CYCLONES



Thunderstorms



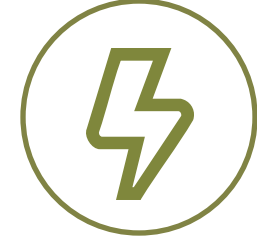
Downdrafts



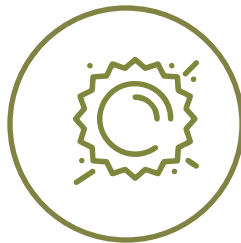
Heavy rain  
or hail



Turbulence



Lightning



Microburst



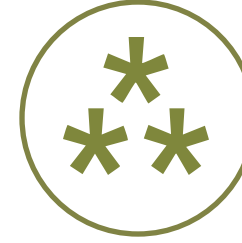
Wind Shear



Low clouds  
and fog

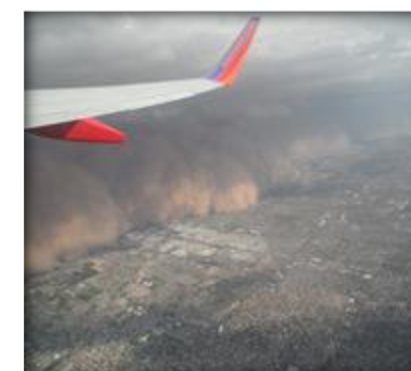
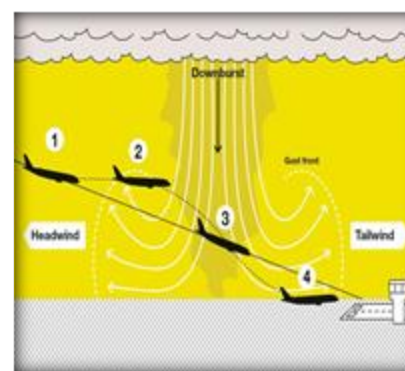
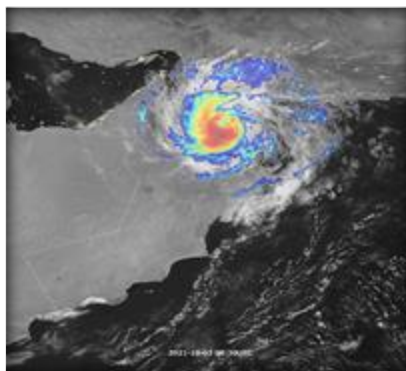


Dust and  
sand storm



Icing

## Hazardous weather to aviation



## Service Provided by Aviation Meteorology in CAA



Routine/Special  
Observations  
reports (METAR-  
SPECI)



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



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



Significant  
Weather Charts  
(Local - Global by  
WARF)



Regional QNH  
(Area QNH)



Hazardous weather  
Warnings (Aerodrome  
Warnings -  
SIGMETs -



NWP Spot Winds  
and Temperature  
(GRIB format )



Reports on  
Runway Visual  
Range (RVR)



Flight  
Folder



Incident / Accident  
investigation  
Aviation report



# THANK YOU