

INTERNATIONAL CIVIL AVIATION ORGANIZATION

A United Nations Specialized Agency

Discussion Paper 3/6: Global and Regional Initiatives Related to the Provision of Meteorological Service for International Air Navigation

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Q. Does meteorology matter to aviation?



50th Conference of Directors General of Civil Aviation Asia and Pacific Regions



OUTLINE

Global and regional initiatives in the field of aeronautical meteorology (MET) contributing to the **safety** and **efficiency** of international air navigation



Global initiatives

Adoption of Amendment 76 to Annex 3

- Meteorology in support of air traffic management
- Coordination with the World Meteorological Organization (WMO)
- Assistance to States



Global initiatives

- Adoption of Amendment 76 to Annex 3
 - world area forecast system (WAFS)
 - international airways volcano watch (IAVW)
 - operational meteorological information (OPMET)



Adoption of Amendment 76 to Annex 3

• WAFS

- operational gridded global forecasts for icing, turbulence and cumulonimbus clouds
- additional upper-air wind and temperature grid point forecasts
- positive effect on efficiency and costeffectiveness





Adoption of Amendment 76 to Annex 3

• IAVW

- monitoring of active or potentially active volcanoes
- volcano observatory notice for aviation (VONA)
- positive effect on safety



Adoption of Amendment 76 to Annex 3

• OPMET

- criteria for local routine and special meteorological reports
- enabling clauses for OPMET information in a digital form
- positive effect on the safety
- basis for digital information exchange



- Meteorology in support of air traffic management
 - Asia/Pacific air navigation planning and implementation regional group (APANPIRG)
 - regional air navigation plan and documentation
 - facilitate implementation of systems/services
 - Meteorology sub-group (MET SG)
 - global air navigation plan (GANP), global aviation safety plan (GASP), aviation system block upgrades (ASBU)



- Meteorology in support of air traffic management
 - APANPIRG/MET SG
 - meteorological requirements task force (MET/R TF)
 - meteorological hazards task force (MET/H TF)
 - world area forecast system task force (WAFS TF)
 - regional OPMET bulletins exchange working group (ROBEX WG)



- Coordination with the World Meteorological Organization (WMO)
 - tropical cyclone programme of the WMO
 - panel on tropical cyclones (PTC) for the Bay of Bengal and Arabian Sea
 - <u>typhoon committee</u> (TC) for Asia and the North Pacific
 - <u>tropical cyclone committee</u> (TCC) for the South Pacific and South-East Indian Ocean



- Coordination with the World Meteorological Organization (WMO)
 - tropical cyclone programme of the WMO
 - promotion of the ICAO provisions with respect to tropical cyclones
 - facilitates implementation of quality systems for MET
 - facilitates monitoring and rectification of air navigation deficiencies in the field of MET



- Assistance to States
 - SIGMET tests
 - regional guidance material
 - special implementation projects



Conclusion

- Global and regional initiatives contribute to safety and efficiency
- New and improved provisions in Annex 3
- MET in support of ATM
- Regional coordination with WMO
- Regional assistance to States



