


International Civil Aviation Organization

Introduction

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ICAO/WMO APAC MET/ATM Seminar, Fukuoka, Japan



Seminar Purpose

- Why the visibility of MET/ATM?
 - Current provisions of MET services in Annex 3 meet certain needs, but not all needs
 - Air Traffic Management, which includes Air Traffic Flow Management, requires advanced knowledge of MET elements that have an impact on capacity in the terminal area and beyond
 - The seminar will learn further States advancements in this area

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Seminar Purpose



- Current services per Annex 3 by contracting States
 - Observations and reports (METAR/SPECI)
 - Forecasts (TAF, trend, route, area)
 - Warnings (SIGMET, AIRMET, aerodrome warnings, wind shear warnings)

meteorological information supplied to ATS units can be referenced in Table 3-1 of Doc 9377 and Table A2-3 in sample letter of agreement between MET & ATS Authorities

Seminar Purpose



- Current services per Annex 3 by contracting States
 - Services for operators and flight crew members – briefing, consultation, flight documentation; VOLMET
 - Information for ATS, SAR and AIS
 - Off-line services – climatological information; archived information for investigations

Seminar Purpose



- Current services per Annex 3 by designated provider States (as specified in the Regional ANPs)
 - World Area Forecast System – provision of global forecasts for upper air wind, temperature and humidity (turbulence and icing under developments) and en-route SIGWX

Seminar Purpose



- Current services per Annex 3 by designated provider States (as specified in the Regional ANPs)
 - Volcanic Ash Advisories – VAACs
 - Tropical Cyclone Advisories – TCACs
 - International Satellite Broadcasts – SADIS and ISCS
 - International OPMET Data Banks – 5 APAC RODBs
 - VOLMET – HF, VHF, D-VOLMET

Seminar Objectives



- Exchange information on MET services for ATM
 - *In particular, products not prescribed in Annex 3*
- Forward outcomes that identify needs and possible requirements to AMOFSG (Aerodrome Meteorological Observation & Forecast Study Group)

Seminar Objectives



- Fulfils APANPIRG C21/50 – **MET/ATM Seminar**

That, ICAO in coordination with WMO conduct a MET/ATM Seminar in early 2011

Note: This Conclusion reinstates APANPIRG Conclusion 19/53

Seminar Outline



- Review of MET/ATM Services by States
- MET impacts on ATM & ATFM (En-route and terminal area)
- Use of MET by ATM
- Future requirements
 - MSTA

Outcomes



- Outcomes of Seminar to be discussed at Second Task Force (TF/2) Meeting
 - Some actions may involve reporting information to AMOFSG for global consideration through direct membership (Australia, China and Japan)
- Outcomes of Seminar reported to
 - ATM/AIS/SAR/SG/21 - June/July 2011
 - CNS/MET SG/15 - July 2011

Regional History

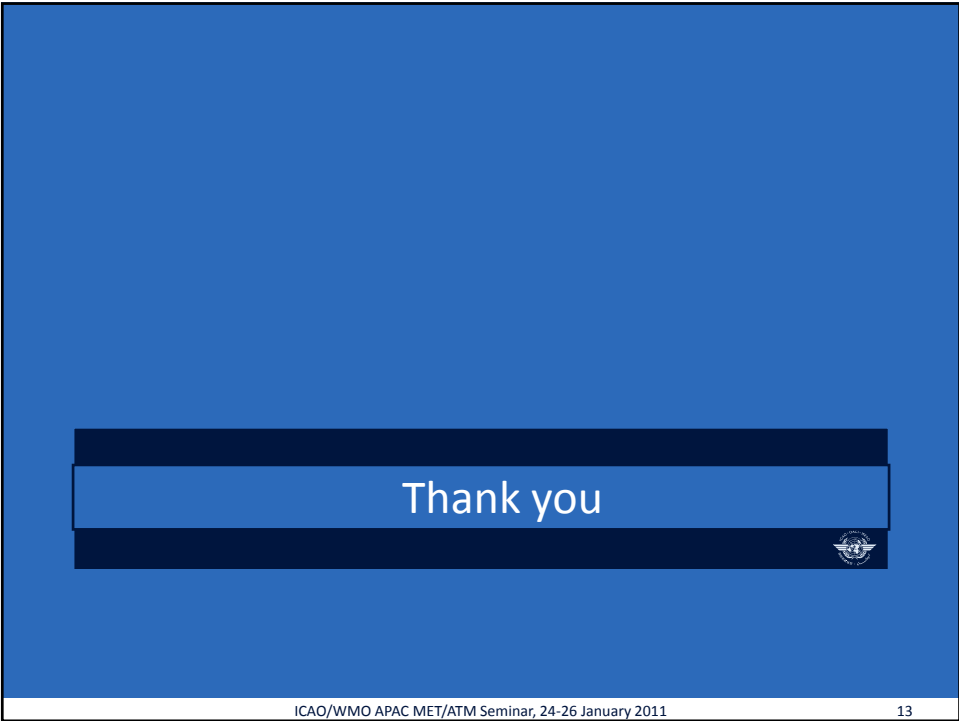


- First MID/ASIA/PAC Seminar on Co-ordination between Air Traffic Services and Aeronautical Meteorological Services
 - Bangkok, 31 March – 4 April 1985
- MET/ATM Co-ordination Seminar
 - Bangkok, 8-10 February 2006
- MET/ATM TF/1 meeting
 - Bangkok, 2-4 December 2010
- MET/ATM Seminar
 - Fukuoka, 24-26 January 2011
- MET/ATM TF/2 meeting
 - Fukuoka, 27-28 January 2011

Future



- Timing of future MET/ATM events should consider
 - Amendment 76 to Annex 3, Nov 2013
 - High resolution winds in the terminal area (subject to AMOFSG endorsement)
 - Bi-lateral use of XML for exchange of OPMET data
 - Amendment 77 to Annex 3, Nov 2016
 - Meteorological Services for Terminal Area - MSTA (subject to endorsement - conjoint ICAO MET/AIM Divisional Meeting / WMO CAeM XV Session - **2014**)
 - Broader use of XML
- Monitor possible changes to PANS-ATM



Thank you

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