



INTERNATIONAL CIVIL AVIATION ORGANIZATION

A United Nations Specialized Agency

OVERVIEW OF ATMRPP AND MARIE-PT ACTIVITIES

INTERNATIONAL CIVIL AVIATION ORGANIZATION

26-28 11 2013

Outline of presentation



MARIE-PT

ATMRPP

MET support for ATM

MET integration in SWIM

The Meteorological Aeronautical Requirements and Information Exchange Project Team (MARIE-PT)

- AMOFSG/9 Action Agreed 9/36
- 1st meeting Montréal, 20-21 February 2012
- MET Information Exchange
- MET information support to ATM
- MET Divisional Meeting in 2014

Meteorological Information Exchange

- proposals to amend Annex 3
- Manual on the Digital Exchange of Aeronautical Meteorological Information
- underpinning specifications
 - Logical Data Model
 - Physical Data Model
 - Metadata Profile

Meteorological Information Exchange

- guidance on implementation
- SWIM integration of MET
- promoting migration towards a data-centric environment

Meteorological Information Exchange

- roadmap and plan for the migration to table-driven codes in support of a future SWIM environment

Meteorological Support to ATM

- user requirement for MET support to ATM
- MET capabilities to meet user requirement
- proposals to amend Annex 3
- Procedures, Manuals or other guidance
- promoting MET support to ATM

Meteorological Support to ATM

- draft concept of operations and roadmap for MET information to support trajectory-based operations (in coordination with the ATMRPP)

2nd meeting, Brussels, 6-8 March 2013

- draft concept of operations and roadmap for MET information to support trajectory-based operations
- draft roadmap for the migration to the use of MET information in a future SWIM environment (and list of tasks)
- MET products recommended for digital exchange as part of Amd. 77 to Annex 3

Air Traffic Management Requirements and Performance Panel (ATMRPP)

Terms of reference

- ICAO provisions
- SARPs to support FF-ICE
- FF-ICE concept reference for:
 - enabling CNS/ATM systems
 - trajectory based operations
 - Service Delivery Management (SDM) component of the Global ATM Operational Concept

Air Traffic Management Requirements and Performance Panel (ATMRPP)

ATMRPP-WG/WHL/17, Montréal, 21-25 Oct 2013

- reviewed the draft concept of operations and roadmap for MET information to support trajectory-based operations
- provided detailed feedback

MET support for ATM



- MET information to support trajectory-based operations
- from pre-flight to in flight
- ATM requirements/MET capabilities
- MET Divisional Meeting in 2014

MET support for ATM

“The Meteorological Information Integration for Trajectory Based Operations Concept and Roadmap”

- global evolution/context of the ATM system
- MET information integration
- MET categorized/linked to performance areas
- defined MET information requirements
- roadmap of pre-defined MET integration for TBO implementation steps

Roadmap for the migration to the use of MET in a SWIM environment

- MET Divisional Meeting in 2014
- Several aspects need to be considered:
 - Separation between provider and user
 - Quality of service
 - Human-to-human versus machine-to-machine
 - Product-centric versus data-centric

Roadmap for the migration to the use of MET in a SWIM environment

- Several aspects need to be considered (cont.):
 - Global ATM interoperability framework for aeronautical meteorology
 - Information exchange services
 - Information exchange models
 - Transition

Summary of presentation



MARIE-PT

ATMRPP

MET support for ATM

MET integration in SWIM



North American
Central American
and Caribbean
(NACC) Office
Mexico City

South American
(SAM) Office
Lima

ICAO
Headquarters
Montreal

Western and
Central African
(WACAF) Office
Dakar

European and
North Atlantic
(EUR/NAT) Office
Paris

Middle East
(MID) Office
Cairo

Eastern and
Southern African
(ESAF) Office
Nairobi

Asia and Pacific
(APAC) Office
Bangkok

Thank You

A world map is shown in a light blue color. Eight office locations are marked with colored dots: an orange dot for the ICAO Headquarters in Montreal, and seven blue dots for regional offices in Mexico City, Lima, Dakar, Paris, Cairo, Nairobi, and Bangkok. Lines connect each dot to its corresponding text label. A large, semi-transparent grey box with a black border is overlaid on the map, containing the text 'Thank You' in a bold, dark blue font.