ICAO – Future plans
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Contents

• Global Air Navigation Plan
• Regional advisory system
• Cross-boundary coordination of SIGMET
ICAO Global Air Navigation Plan (GANP)
GANP

$2.4 trillion
Contributed to global GDP annually (direct, indirect and induced, 2012)

3.3 billion
Passengers annually (carried on scheduled traffic, 2014)

$6.4 trillion
Value of air cargo annually (2012)
The pace and resilience of modern air traffic growth

Glocal air traffic has doubles in size once every 15 years since 1977 and will continue to do so. This growth occurs despite broader recessionary cycles and helps illustrate how aviation investment can be a key factor supporting economic recovery.

Source: Airbus
GANP

**Performance Improvement Areas**

**Block 0 (2013)**

**Global interoperable systems and data**

**B0-AMET**
Meteorological information supporting enhanced operational efficiency and safety

**Block 1 (2019)**

**B1-AMET**
Enhanced Operational Decisions through Integrated Meteorological Information (Planning and Near-term Service)

**Block 2 (2025)**

**B3-AMET**
Enhanced Operational Decisions through Integrated Meteorological Information (Near-term and Immediate Service)

**Block 3 (2031 onward)**
Regional advisory system

• Meteorological warnings study group (METWSG)
  – Feasibility on rationalization of SIGMET issuance [METWSG/1]
  – Feasibility on SIGMET advisory [METWSG/2 and 3]
  – SIGMET advisory trial 2011 (4 May to 31 Jul for Asia)
  – Development of proposal MET Divisional Meeting [METWSG/4]
  – High-level strategy for information on hazardous MET conditions
  – Concept of operations regional SIGMET advisory system
  – Plan for future governance/cost recovery [METWSG/5]
Regional advisory system

• Meteorology Divisional Meeting 2014 (MET14)
  – Recommendation 2/4 — Review of MET information service provision framework to reflect GANP objectives
  – Recommendation 2/9 — Implementation of a regional advisory system for select en-route hazardous meteorological conditions
Regional advisory system

• Meteorology Panel (METP)
  – 2/4 Review of MET information service provision framework to reflect GANP objectives [Job card 12]
  – 2/9 Implementation of a regional advisory system for select en-route hazardous meteorological conditions [Job card 8, 12]
Regional advisory system

- **Meteorology Panel (METP)**
  - Annex 3
    - Proposal for regional advisory system [Sep 2016]
  - Doc 8896
    - Update [Sep 2016]
  - Criteria for advisory centres
    - Developed [Sep 2016]
- **Regional Air Navigation Plans**
  - Update [as necessary]
SIGMET cross-boundary coordination

• SIGMET Guide (work in progress)
  – Update to assist States in aligning cross-boundary SIGMET information [MET SG]
    • “operational procedures should promote effective coordination between MWOs to ensure seamless SIGMET service across the boundaries of areas of responsibility”
SIGMET cross-boundary coordination

• WMO pilot project on SIGMET coordination
  – Singapore kick-off meeting (25-26 May 2016)
  – Improve SIGMET in Indonesia/Malaysia/Singapore
  – Coordinated MET watch/harmonized SIGMET
  – Major concern ☑ rapidly developing thunderstorms
  – Common visualization platform
  – Trial period Jul-Dec 2016; wrap-up meeting Q1, 2017
SIGMET cross-boundary coordination

• Demonstrations of SIGMET coordination
  – Philippines, Viet Nam and Japan; 9-20 May 2016
  – Included cross-FIR-boundary coordination
  – Thunderstorm advisory information provided by Japan
  – Users indicated collaborative approach was useful
  – Improved accuracy/availability of SIGMET
  – Highlighted role of reliable advisory system for SIGMET
SIGMET cross-boundary coordination

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SIGMET cross-boundary coordination

• Demonstrations of SIGMET coordination
  – Graphical tools demonstrated by Hong Kong, China
  – Graphic display of SIGMET polygon/MET satellite image
  – Web-based SIGMET preparation (drawing) system
  – Facilitate SIGMET coordination across boundaries
  – Support the WMO pilot project on SIGMET coordination
SIGMET cross-boundary coordination
Summary

• Global Air Navigation Plan
  – Near-term: MET » enhanced efficiency/safety
  – Future: Integrated MET » enhanced decisions

• Regional advisory system
  – ICAO provisions under development

• Cross-boundary coordination of SIGMET
  – Regional guidance and demonstrations