



**INTERNATIONAL CIVIL AVIATION ORGANISATION**  
**AFI PLANNING AND IMPLEMENTATION REGIONAL GROUP (APIRG)**  
**METEOROLOGY SUB-GROUP TENTH MEETING (MET/SG/10)**  
*(Dakar, Senegal, 29 June – 01 July 2011)*

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**Agenda Item 7:           Review of the report of the Core Team of Experts for the Global ATM Operational Concepts on MET Services**

**REPORT OF THE CORE TEAM OF EXPERTS FOR  
THE GLOBAL ATM OPERATIONAL CONCEPTS ON MET SERVICES**

*(Presented by the Core Team on ATM)*

**SUMMARY**

This paper is a report issued by the Core Team of Experts for the Global ATM Operational Concepts on MET Services, established by Decision 17/84 of APIRG/17. In view of the emerging continuous work to be performed on the monitoring of the AFI Volcanic ash contingency plan, the collection and study of information on the impact of the Global Air Traffic Management (ATM) Operational Concept on MET services, the Core Team of Experts suggested to abolish its activities and establish a MET/ATM Task Force in order to perform an annual AFI volcanic ash exercises and continue to collect and study regional information on the impact of ATM operational concept on MET.

**1.           Introduction**

1.1       The meeting may recall that Decision 17/84 of APIRG/17 calls for a core team of experts to be established consisting of members from ASECNA, Kenya, Morocco, South Africa and the United Kingdom to collect and study information on the impact of the global Air Traffic Management operational concept on the provision of Aeronautical Meteorological Services at a Regional level (AFI Region). The Core Team was consisted of specialists in ATM, CNS and MET.

1.2       The Core Team worked through e-mail and found that in view of the tremendous and emerging continuous work to be performed in updating and continuously monitoring the AFI Volcanic ash contingency plan, collect and study of information on the impact of the Global Air Traffic Management (ATM) Operational Concept on MET services, suggested to abolish and establish a MET/ATM Task Force with the terms of reference attached in **Appendix A** to this paper.

## 2. Discussion

2.1 The Sub Group will recall that Conclusion 17/84 of APIRG/17 meeting calls for the establishment of a Core Team of Experts to be established to collect and study information on the impact of the global Air Traffic Management operational concept on the provision of Aeronautical Meteorological Services in the AFI Region.

2.2 The team of experts consisting of specialists in ATM, CNS and MET, worked through e-mail and issued the current working paper as the report on its work.

2.3 In view of the tremendous and emerging continuous work on the monitoring of the AFI Volcanic ash Contingency Plan to be establish, the collection and study of information on the impact of the Global Air Traffic Management (ATM) Operational Concept on MET services, the Core Team of Experts suggests to establish a MET/ATM Task Force with the terms of reference attached in **Appendix A** to this paper, in order to perform an annual AFI volcanic ash exercises and continue to collect and study regional information on the impact of ATM operational concept on MET.

2.4 In this regard, the Core Team may wish to formulate the following recommendation which should be discussed with the APIRG MET/SG and ATM/AIS/SAR Sub-group:

### **Conclusion 10/xx: Establishment of the AFI MET/ATM Task Force**

#### **That:**

- a) **an AFI MET/ATM Task Force be established with the terms of reference and work programme, as presented in Appendix A to this report;**
- b) **the Core Team of experts established through Decision 17/84 of APIRG/17, be abolished and replaced by the AFI MET/ATM TF.**

*Note: The AFI MET/ATM TF will consist of specialists in ATM, CNS and MET.*

## 3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) Note the information in this paper,
- b) Review the proposed TOR and,
- c) decide on the above conclusion proposed for the Sub-group's consideration.

## APPENDIX A

### TERMS OF REFERENCE OF THE AFI ATM/MET TASK FORCE

#### 1. Terms of Reference

1.1 Under guidance from ICAO Secretariat:

- a) Evaluate the current and future requirements for MET in support of ATM in the AFI Region and update Regional Air Navigation Plan accordingly and provide guidance material to assist States to develop MET services to meet these requirements;
- b) Assess aviation meteorological services, systems and architecture in the region and how they can integrate weather information into decision support tools;
- c) Update and monitor the AFI Volcanic Ash Contingency Plan;
- d) Investigate sub-regional exchange of MET information and associated agreements that facilitate ATM operations particularly over busy routes that overlap different FIRs;
- e) Promote coordination between MET and ATM communities in the AFI Region to enhance the level of understanding of MET requirements and capabilities in support of ATM;
- f) Monitor global policy associated with source data and delivery of MET products for ATM;
- g) Coordinate with MET/SG and ATM/SG on framework for contingency plan for specific phenomenon including volcanic ash, radioactive cloud, tropical cyclone and Tsunami with reference to developments made WMO scientific steering committee;
- h) Report to the MET/SG Sub-group of APIRG for further co-ordination through the ICAO Secretariat with other relevant bodies.

1.2 The objective being to improve efficiency of ATM and airlines by providing tailored regional MET products needed to optimize flight routes in all weather conditions.

1.3 The Benefits will be to increase efficiency – save time and fuel as well as reduce carbon emissions.

#### 2. Work Programme

2.1 The work to be addressed by the AFI ATM/MET Task Force includes:

- a) Develop regional MET requirements for ATM by:
  - ✓ conducting MET/ATM meetings (TF meetings, Seminars) to contribute in developing MET requirements for ATM;
  - ✓ analyzing existing ATM/MET surveys and develop new surveys, when necessary, to determine regional ATM requirements for MET;
  - ✓ recommending regional MET requirements for ATM to MET/SG Meetings;
  - ✓ Determining regional MET requirements for ATM.
- b) Developing methods to use weather information in decision support tools by:
  - ✓ Developing methods to use weather information in decision support tools

- c) Update and monitor the AFI Volcanic Ash Contingency Plan (VACP) by:
  - ✓ Regularly updating the VACP through new requirements from the International Volcanic Ash Task Force (IVATF);
  - ✓ Conducting annual VACP exercises or AFI ATM/MET Volcanic Ash Exercises (VAEX/AFI);
  - ✓ reporting on annual VAEX/AFI to MET/SG meetings.
  
- d) Develop sub-regional exchange of MET information to facilitate ATM operations by:
  - ✓ Encouraging States develop agreements on the exchange of MET information that provides benefits to ATM operations on sub-regional level;
  - ✓ Encouraging States report developments to MET/ATM TF and CNS/MET SG meetings;
  - ✓ Developing sub-regional exchange of MET information to facilitate ATM operations in busy routes.
  
- e) Develop regional implementation plan for Meteorological Service for Terminal Area (MSTA) by:
  - ✓ Monitoring developments of MSTA (pending approval at conjoint ICAO/WMO Divisional meeting 2014);
  - ✓ Monitoring Annex 3 developments (requirements for MSTA);
  - ✓ Developing regional implementation plan for MSTA ;
  - ✓ Monitoring regional implementation of MSTA;
  - ✓ Reporting implementation progress to MET/SG.
  - ✓ Developing regional implementation plan for Meteorological Services for the Terminal Area.
  
- f) Monitor global policies associated with source data and delivery of MET products for ATM by:
  - ✓ monitoring global policies associated with source data and delivery of MET products for ATM ;
  - ✓ reporting results to MET/SG meetings;
  - ✓ monitor global policies associated with source data and delivery of MET products for ATM.

### **3. Composition**

3.1 The Task Force is composed of experts from:

a) .....

b) Representatives of IATA and WMO are invited to participate in the work of the Task Force.