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World Meteorological Organization
Organisation météorologique mondiale
Organización Meteorológica Mundial
Всемирная метеорологическая организация
المنظمة العالمية للأرصاد الجوية
世界气象组织

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Our ref.: 24580/2018-DRA-AFLDC

4 October 2018

Annexes: 3 (available in English only)

Subject: African Conference on Meteorology for Aviation (ACMA-2018)
Dakar, Senegal, 28-30 November 2018

Action required: To nominate two participants to attend the conference by **12 October 2018**

Dear Sir/Madam,

I have the pleasure to inform you that, at the kind invitation of the Government of Senegal, the World Meteorological Organization (WMO) is organizing the African Conference on Meteorology for Aviation (ACMA). Resolution 2 of the sixteenth session of WMO Regional Association I (RA I-16, Africa) held in Praia, Cabo Verde in February 2015 called on the organizing of a regional conference on the future of meteorological service provision to civil aviation in order to explore coordinated regional approaches in RA I. This is in response to the evolving air traffic management system and information-centric requirements, based on the outcomes of the Conjoint ICAO/WMO Meteorology Divisional Meeting held in 2014.

The Conference (ACMA-2018) will be held in Dakar, Senegal from 28 to 30 November 2018. The conference is being organized in collaboration with l'Agence nationale de l'aviation civile et de la météorologie (ANACIM) of Senegal and in close coordination with l'Agence pour la Sécurité de la Navigation Aérienne en Afrique et à Madagascar (ASECNA), the International Civil Aviation Organization (ICAO) and other relevant stakeholders.

The Conference will provide a forum to discuss and share national and sub-regional experiences on aeronautical meteorology matters which are among the priorities of RA I and to build a common understanding of the challenges and opportunities as well as the priorities and risks emanating from global and regional developments, including those associated with the ICAO Global Air Navigation Plan (GANP) and its Aviation System Block Upgrades (ASBU) methodology. In addition, the Conference will consider emerging issues such as the impacts of climate change on aviation, as part of the climate-related challenges for RA I Members. A broad participation of the aviation stakeholders and users of aeronautical meteorological information is envisaged in order to outline the "African aviation landscape" and understand better the current and emerging user needs.

Please find enclosed a Concept Note (Annex 1) outlining the objectives and expected outcomes from the Conference, and a tentative Programme (Annex 2).

Due to the importance of the subject, the Conference is targeting the senior management of National Meteorological and Hydrological Services (NMHSs) (preferably Permanent Representatives, Directors and/or Senior Management staff responsible for aeronautical meteorological services). Noting that in accordance with the national legislation and service provision arrangements in different RA I Member countries, the aeronautical meteorological service provider (AMSP) may be an entity outside the NMHS, you are also encouraged to invite additional participants from other AMSP organizations in your country, if

To: Permanent Representatives of Members of Regional Association I

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such exist. This would facilitate a closer cooperation and mutual understanding of the different organizations participating in aeronautical meteorological service provision.

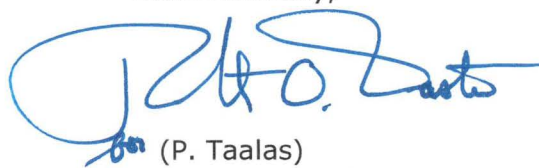
It is hoped that the costs of your participation will be borne by the Government of your country. However, if this is not possible, WMO could consider, upon request, meeting the cost of travel and/or daily subsistence allowance for the Conference for one participant in each country. Priority for WMO financial assistance will be given to the participants from Least Developed Countries (LDCs). In order to clarify WMO's insurance coverage for non-staff members, I should like to draw your attention to the following:

In the case of non-staff members of the Organization who are authorized to travel at its expense and/or who are receiving a daily subsistence allowance, the WMO accepts limited responsibility for compensation in the event of death, illness or injury attributable to attendance at meetings or the performance of services on behalf of the Organization. These persons are therefore fully responsible for any expenses incurred as a result of events which are not attributable to attendance at meetings or the performance of services on behalf of the Organization and for arranging such life, health and other forms of insurance as they consider appropriate.

You are kindly requested to nominate participant(s) from your country using the Nomination Form (Annex 3), and to indicate therein whether financial assistance is required. Please return this form (one completed form per participant) to the WMO Secretariat at fax number +41 22 730 8269, with a scanned copy to Ms Josine Umugwaneza (ajumugwaneza@wmo.int), as soon as possible, but preferably not later than **12 October 2018**.

I would like to express my appreciation for your continued support in promoting the Programmes and activities of WMO.

Yours faithfully,



(P. Taalas)
Secretary-General

AFRICAN CONFERENCE ON METEOROLOGY FOR AVIATION (ACMA-2018)

Dakar, Senegal, 28-30 November 2018

CONCEPT NOTE

OUTLINE:

- Background
 - ICAO Meteorology Divisional Meeting (MET/14) held in 2014 conjointly with fifteenth session of WMO Commission for Aeronautical Meteorology (CAeM-15)
 - Sixteenth session of the WMO Regional Association I (Africa) (RA I-16) held in 2015
- Objective
 - Raise awareness and strengthen mutual understanding of global and regional developments
 - Promote appropriate regional cooperation mechanisms and coordinated approaches
 - Identify opportunities and risks for NMHSs and seek ways to resolve known deficiencies
 - Focus on business models and related governance
- Stakeholders/Partners:
 - WMO RA I and CAeM
 - ICAO
 - ASECNA
 - AMCOMET
 - Users – IATA, IFALPA, other user organizations
 - Industry (e.g. MFI, ...)
 - ICAO/WMO centres: WAFC London, VAAC Toulouse, TCAC La Réunion
- Format and outcomes

1. Background

1.1. At its sixteenth session held in Praia, Cabo Verde in February 2015, WMO Regional Association I (Africa) considered the need to raise the awareness that the coming changes in the global and regional air traffic management (ATM) and the related changes in meteorological (MET) service provision would have a major impact on the provision of MET services as part of the air navigation services by most RA I Members. Among those was an increasing pressure for more competitive and commercial MET service provision. The Association underlined that these trends need to be carefully monitored and discussed, given the importance of assuring aviation safety and service quality, and sustaining fair and equitable cost recovery mechanisms

1.2. The Association agreed on the need to gain a greater understanding of these issues to better inform future discussions and requested the WMO Secretariat to

organize a regional conference that would also build on the outcomes of the 2014 ICAO Meteorology Divisional Meeting (MET/14) held conjointly with the fifteenth session of the WMO Commission for Aeronautical Meteorology (CAeM-15). The Association accordingly adopted Resolution 2 (RA I-16) – Future development of meteorological service provision to civil aviation in Region I (Africa).

1.3. MET/14 was an important milestone in the development of the aeronautical MET service. It gave clear directions for the future in particular the need for full integration of the MET information and services in the global framework presented in the ICAO Global Air Navigation Plan (GANP) and its aviation system block upgrades (ASBU) methodology. MET/14 adopted 29 recommendations which marked the future performance improvements of the MET services throughout the time horizon of the GANP/ASBU blocks – currently 2030 and beyond. WMO is a key stakeholder in the coordinated follow up action on the MET/14 recommendations, in particular in providing the necessary scientific and technical methods and practices for those improvements. Africa is an arena of vigorous development of the new ATM environment, both in technology and regulations. Therefore, ACMA-2018 will be an opportunity to coordinate the African response to the outcomes of the MET/14 and other relevant events that have followed such as the CAeM-16 and TECO in 2018, and to promote a regional coordinated approach.

2. Objectives

2.1. To raise awareness among RA I Members concerning:

- Current and future developments in Africa towards more efficient organization of the air traffic in the Region I and related institutional and technological changes with impacts on the provision of meteorological service.
- Major outcomes of MET/14 related to the GANP and ASBU that would require adjustment of existing or new business models for service delivery, including the shift from “product-centric” to “data-centric” information services, regionalization and globalization.
- New technology to achieve performance improvements in the light of SESAR, NextGen and other such ATM modernization programmes, new concepts and systems (e.g., system-wide information management or SWIM).

2.2. To promote the development of a coordinated approach among the RA I Members in addressing the numerous organizational, regulatory and operational issues related to the MET service provision in the African ATM environment and enhance regional coordination and cooperation.

2.3. Strengthen the mutual understanding with ATM stakeholders.

3. Stakeholders/Partners

3.1. ACMA-2018 will be organized under the aegis of WMO Regional Association I (Africa) and under the patronage of the RA I President. It will be intended mostly for the RA I Members Directors and senior management of the NMHSs and other providers of aeronautical meteorological services. Partnership and coordination with sub-regional bodies like ASECNA is highly desirable.

3.2. The event will be supported thematically by the WMO Commission for Aeronautical Meteorology (CAeM) in view of the global character of the discussed issues. In this regard, the experience of a similar European conference held in RA VI (Europe) in 2015 will be utilized.

3.3. Participation of representatives of the ATM community from different segments (airlines, ANS providers, airport management, etc.) will be crucial for building common awareness and understanding. Primary partners in organizing the event will be ICAO and ASECNA, while other partners such as IATA, IFALPA, CANSO and other relevant organizations (e.g. world area forecast centres, volcanic ash advisory centres and tropical cyclone advisory centres providing service for Africa) will be contacted and strongly encouraged to participate and present their point of view.

4. Format and outcomes

4.1. ACMA-2018 will be organized under an agenda encompassing institutional and technological aspects of the future MET services for ATM with a strong focus on African developments.

4.2. The sessions will include keynote presentations by relevant stakeholders outlining the major drivers for change. The keynotes will be followed by presentations of existing best practices and planning examples, including relevant ongoing research and development efforts.

4.3. Breakout groups (on sub-regional basis) will explore specific topics.

4.4. A panel session will be held to formulate conference recommendations and to prepare a general statement of the conference for adoption immediately prior to the closure of the conference.

4.5. An organizing committee will be responsible for the planning, preparing and conducting the conference in coordination with the local organizers.

4.6. The outcomes of the conference (recommendations and statement) will be reported to the seventeenth session of WMO Regional Association I (RA I-17) with a view to assisting in the formulation of regional follow-up activities. Other bodies such as the African Ministerial Conference on Meteorology (AMCOMET) and Commission for Aeronautical Meteorology (CAeM) will also be kept informed.

AFRICAN CONFERENCE ON METEOROLOGY FOR AVIATION (ACMA-2018)**Dakar, Senegal, 28-30 November 2018****PROVISIONAL PROGRAMME****Day 1: Wednesday 28 November 2018***08:30-09:30 REGISTRATION***09:30-10:30 Opening and keynote addresses**

ACMA-2018 will be opened with several addresses and keynotes on behalf of WMO, ICAO and other partners, as well as the host country. The president of the WMO Regional Association I (Africa) and the president of the Commission for Aeronautical Meteorology (CAeM) will set the scene outlining the objectives, the challenges, and the expected outcomes of the Conference.

Opening addresses: Host country, WMO, ICAO, ASECNA

Keynotes: President of RA I and president of CAeM

11:00-12:30 Session 1: African aviation landscape (1)

Presentations during this session will outline the relevant African aviation policies and initiatives – AFCAC, AMCOMET, ICAO and industry representatives.

Plus:

- Acknowledgement of sponsors.
- Tour of exhibition area

14:00-15:30 Session 1 (cont.): African aviation landscape (2)

Regional stakeholders – ATM, airlines and other industry representatives.

16:00-17:30 Session 2: Global ATM concept and foreseen MET service changes

How ICAO's Global Air Navigation Plan (GANP) and its aviation system block upgrades (ASBU) methodology are changing the requirements for meteorological service for international air navigation. The ASBU timeline and related MET modules will be explained. Paradigm shifts in the MET service provision, e.g., the shift from "product-centric" to "data-centric", will be discussed to build better awareness. An impact assessment regarding the forthcoming technological and institutional changes will be presented.

Day 2: Thursday 29 November 2018**09:00-10:30 Session 3: MET response – Opportunities and risks (1)**

Several national case studies will be presented describing examples of national planning for the GANP challenges with the understanding that there are new opportunities but also risks for the NMHSs and other aeronautical MET service providers. Opportunities for meeting the challenges through multi-national cooperation will also be addressed.

Highlighting key issues and deficiencies:

- Institutional aspects – legislation, funding, cost-recovery.
- Deficiencies – infrastructure, equipment, competence, qualification.

11:00-12:30 Session 3 (cont.): MET response – Opportunities and risks (2)

More national cases; introduction to near-term implementation challenges, such as the migration to XML/GML encoded information and the need for a synchronized regional implementation. Impacts of climate change on aviation, a new subject for the Commission for Aeronautical Meteorology, will also be presented as part of the climate-related challenges for RA I Members.

14:00-15:30 Session 3 (cont.): MET response – Opportunities and risks (3)

More national or sub-regional cases studies as well as industry solutions.

16:00-17:30 Session 4: Sub-regional challenges and priorities (1)

Breakout groups

Day 3: Friday 30 November 2018**09:00-10:30 Session 4 (cont.): Sub-regional challenges and priorities (2)**

Reports of breakout groups

11:00-12:30 Session 5: Panel session

A panel session will be held to summarize the discussions and highlight the main issues for RA I Members and their aviation MET service providers in the current regional and global dynamics, including the need for Members to ensure compliance with the new requirements stemming from African aviation policies and initiatives and GANP/ASBU.

In the spirit of regional cooperation promoted by the WMO, the session will formulate a series of recommendations to be considered by the RA I and CAeM management bodies in providing a streamlined guidance to Members on the challenges, opportunities and risks, in order to enable concrete action planning at national and regional level as a response to those challenges.

14:00-15:00 Adoption of ACMA-2018 Statement and conference closure



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ANNEX 3

African Conference on Meteorology for Aviation (ACMA-2018) Dakar, Senegal, 28-30 November 2018

PARTICIPANT NOMINATION FORM

The Government of nominates the following expert as a participant for the above-captioned Workshop:

1. Title: (a) Dr (b) Mr (c) Mrs (d) Ms _____
2. Family Name: _____
3. Sex: (a) Male (b) Female _____
4. Full Address: _____
 Tel No.: (office) _____ Fax No.: _____
 E-mail: _____

5. Please complete if financial assistance is required from WMO:

Support required:	YES	NO
(i) Travel:	<input type="checkbox"/>	<input type="checkbox"/>
(ii) Lump sum payment in lieu of DSA:	<input type="checkbox"/>	<input type="checkbox"/>

 Date:

 (Signature of Permanent Representative)

This Form is to be completed and returned via facsimile to the WMO Secretariat at: fax number +41 22 730 8269, with a scanned copy to Ms Anne Josine Umugwaneza (ajumugwaneza@wmo.int) as soon as possible, but not later than 12 October 2018.