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Secretariat

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Cg-17 – RESOLUTIONS RELATING TO AERONAUTICAL METEOROLOGY

This information document contains Cg-17 Resolutions relating to Aeronautical Meteorology as follows:

Resolution 1 (Cg-17) - REPORT OF THE FIFTEENTH SESSION OF THE COMMISSION FOR AERONAUTICAL METEOROLOGY, INCLUDING REVISED TERMS OF REFERENCE OF THE COMMISSION

Resolution 3 (Cg-17) - AERONAUTICAL METEOROLOGY PROGRAMME

Resolution 66 (Cg-17) - WMO SUPPORT TO EVOLVING AERONAUTICAL METEOROLOGICAL SERVICES

Resolution 1 (Cg-17)

REPORT OF THE FIFTEENTH SESSION OF THE COMMISSION FOR AERONAUTICAL METEOROLOGY, INCLUDING REVISED TERMS OF REFERENCE OF THE COMMISSION

THE WORLD METEOROLOGICAL CONGRESS,

Having considered the report of the president of the Commission for Aeronautical Meteorology, the proposed changes to the terms of reference of the Commission, and resolutions and recommendations adopted by the Commission at its fifteenth session,

Expressing concern of recent weather-related aircraft accidents highlighting the need for better understanding of the impact of meteorological hazards on aviation and for enhanced services in support of safe and efficient operations of international air navigation,

Noting the *Abridged Final Report with Resolutions and Recommendations of the Fifteenth Session of the Commission for Aeronautical Meteorology* (WMO-No. 1139),

Decides to take the following actions on the recommendations:

Recommendation 1 (CAeM-15) – Terms of reference of the Commission for Aeronautical Meteorology

- (a) Adopts the revised terms of reference for the Commission, as given in the annex to the present resolution, in place of the terms of reference put in force by Resolution 43 (Cg-XVI) – Terms of reference of the technical commissions;
- (b) Requests the Secretary-General to arrange for the respective amendment to the WMO General Regulations, Annex III – Structure and terms of reference of technical commissions, contained in *Basic Documents No. 1* (WMO-No. 15);

Recommendation 3 (CAeM-15) – Review of relevant resolutions of the Executive Council based on previous recommendations of the Commission for Aeronautical Meteorology

- (a) Requests the Executive Council to take into account this recommendation.

Note: This resolution replaces Resolution 53 (Cg-XVI), which is no longer in force.

Annex to Resolution 1 (Cg-17)

TERMS OF REFERENCE OF THE COMMISSION FOR AERONAUTICAL METEOROLOGY

Commission for Aeronautical Meteorology (CAeM)

The terms of reference of the Commission for Aeronautical Meteorology shall be:

- (a) To contribute, in close collaboration with ICAO, to furthering the international standardization of meteorological service provision to international air navigation and provide assistance to Members to achieve compliance with those standards;

- (b) To promote and facilitate, in collaboration with relevant WMO bodies, the international sharing of implementation experience, exchange of technology and research uptake, including appropriate pilot projects, to meet evolving user requirements for aeronautical meteorological information and services;
 - (c) To participate, in close collaboration with ICAO and other relevant stakeholders, in the planning and development of enhanced aeronautical meteorological services in support of the future Air Traffic Management system;
 - (d) To coordinate development of guidance, training material and learning opportunities in collaboration with other WMO bodies and ICAO, to ensure Members' compliance with the competency and qualification requirements for aeronautical meteorological personnel;
 - (e) To review and respond to Members' aeronautical meteorology prioritized needs and support capacity development activities, in cooperation with regional associations, aimed at enhancing the delivery of quality aeronautical meteorological services, especially by developing and least developed Members;
 - (f) To promote good governance and efficiency, in cooperation with ICAO, regional bodies and Members, including enhanced regional and subregional cooperation in aeronautical meteorological service delivery and development of related cost-recovery mechanisms;
 - (g) To maintain existing and develop further partnerships with relevant aviation user and stakeholder organizations and collaborate on issues related to aeronautical meteorology.
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Resolution 3 (Cg-17)

AERONAUTICAL METEOROLOGY PROGRAMME

THE WORLD METEOROLOGICAL CONGRESS,

Noting:

- (1) Resolution 53 (Cg-XVI) – Aeronautical Meteorology Programme,
- (2) The *Abridged Final Report with Resolutions and Recommendations of the Fifteenth Session of the Commission for Aeronautical Meteorology* (WMO-No. 1139),
- (3) The *Abridged Final Report with Resolutions of the Sixty-sixth Session of the Executive Council* (WMO-No. 1136), Annex XV – Executive Council position taken at its sixty-sixth session related to the Conjoint ICAO/WMO Meteorology Divisional Meeting,
- (4) The report of the International Civil Aviation Organization (ICAO)/WMO Meteorology Divisional Meeting 2014,
- (5) The reports of all regional associations during the intersessional period 2011–2015,

Considering:

- (1) That the seventeenth intersessional period 2016–2019 will be a period of significant developments in aeronautical meteorology as part of the Aviation System Block Upgrades of the ICAO Global Air Navigation Plan,
- (2) The need to provide further assistance to Members in enhancing their compliance with the WMO and ICAO regulations, in particular those related to the implementation of quality management systems, and competency and qualification of aeronautical meteorological personnel,
- (3) The challenges and opportunities for Members regarding the envisaged changes in the service delivery and business models for the provision of aeronautical meteorological service, and the need to assess the related risks and impacts,

Decides:

- (1) That the Aeronautical Meteorology Programme shall continue to be a high-priority programme and suitably resourced to enable it to maintain the role and the position of WMO in the international collaborative governance of aeronautical meteorological service provision;
- (2) That the Programme should continue to provide targeted assistance to Members in need to achieve the required level of compliance with the international requirements promulgated by WMO and ICAO;
- (3) To align the Programme with the new developments in the field of meteorological service for international air navigation;

Requests the Secretary-General:

- (1) To apply, in coordination with the president of the Commission for Aeronautical Meteorology, a longer-term planning approach to the Aeronautical Meteorology Programme consistent with the ICAO Global Air Navigation Plan and its Aviation System Block Upgrades methodology and timeline (2013–2028), with special consideration on building capacity of subregions and Members with long-standing deficiencies in their service provision to civil aviation;
- (2) To continue the rigorous monitoring of the compliance of Members with the WMO Technical Regulations related to aeronautical meteorology, in particular the implementation of the quality management system and the aeronautical meteorological personnel competency and qualification requirements, and to address identified deficiencies thereof;
- (3) To collaborate closely with the Secretary-General of ICAO in undertaking appropriate measures in view of facilitating the implementation of cost recovery by Members in order to provide foundation for sustainable implementation of the ICAO and WMO requirements for quality management systems, and competency and qualification of aeronautical meteorological personnel;

Urges Members:

- (1) To consider establishing longer-term national plans for the development of aeronautical meteorological services, taking due account of the Global Air Navigation Plan and Aviation System Block Upgrades timelines and in consultation with the national aviation stakeholders;
- (2) To strive to enhance their compliance with the international requirements, in particular those related to the implementation of quality management systems, and competency and qualification of aeronautical meteorological personnel, including through bilateral and multilateral arrangements, such as twinning and mentoring;

Requests the regional associations, through their appropriate regional subsidiary bodies, to define the needs for and facilitate the provision of assistance to their Members in resolving identified deficiencies in the provision of aeronautical meteorological services, and to support, monitor and report on capacity development activities in this regard.

Note: This resolution replaces Resolution 53 (Cg-XVI), which is no longer in force.

Resolution 66 (Cg-17)

WMO SUPPORT TO EVOLVING AERONAUTICAL METEOROLOGICAL SERVICES

THE WORLD METEOROLOGICAL CONGRESS,

Noting the fourth edition of the *Global Air Navigation Plan (GANP)* (ICAO Doc 9750) endorsed by the Assembly of the International Civil Aviation Organization (ICAO) at its thirty-eighth session in 2013, and its objective for safe, sustained growth of air transport, and increased efficiency and responsible environmental stewardship that societies and economies globally now require,

Noting further:

- (1) That GANP represents a rolling 15-year strategy to guide complementary and sector-wide air transport improvements over the period 2013–2028 and beyond, and will be implemented through the Aviation System Block Upgrades (ASBU) methodology,
- (2) The outcome of the Conjoint ICAO/WMO Meteorology Divisional Meeting expressed in 29 recommendations, calling for closely coordinated follow up actions by ICAO and WMO,

Recognizing that the integration of the aeronautical meteorological information in the future system-wide information management will be a key enabler to the realization of a globally harmonized, interoperable air traffic management system,

Recognizing further:

- (1) That the implementation of the performance improvements envisaged in ASBU will imply significant institutional, technological and operational changes in the provision of aeronautical meteorological service by Members,
- (2) The need for developing relevant background material and guidance on the envisaged changes to assist Members in their related capacity development plans, risk assessment and change management,
- (3) That the success of the meteorological components of ASBU will be strongly dependent on an accelerated transfer of scientific and technological achievements that have demonstrated value to aviation stakeholders into operational practice,
- (4) That in order to address effectively relevant aspects of GANP and ASBU developments, WMO should strengthen and expand its cooperation and partnership with aviation stakeholders at all levels,

Endorses WMO engagement, in close coordination with ICAO, in the follow-up of the recommendations of the Conjoint ICAO/WMO Meteorology Divisional Meeting;

Decides that WMO, in close coordination with ICAO, should continue to provide expert support in its area of competency to the implementation of the meteorology modules of GANP and ASBU;

Requests the Executive Council to closely monitor the progress by ICAO towards GANP and ASBU, and to take all appropriate actions to ensure there is effective WMO influence on the meteorology elements of GANP and ASBU, in particular on governance and business model changes stemming from GANP and ASBU;

Requests the president of the Commission for Aeronautical Meteorology (CAeM), supported by the CAeM Management Group and expert teams, to act as a focal point for the WMO activities related to GANP and ASBU to ensure that they are coordinated and guided competently, and to address as a matter of priority the need for evaluation of emerging risks for the National Meteorological and Hydrological Services, development of guidance and sharing of best practices,

in order to assist Members to make informed decisions in their mid- to long-term planning of aeronautical meteorological services;

Requests the presidents of technical commissions concerned to closely coordinate appropriate actions related to scientific, technological and operational aspects of GANP and ASBU;

Requests the presidents of regional associations:

- (1) To monitor regional developments, in particular the extended regionalization of some services, in order to ensure an inclusive approach through equitable regional and subregional partnerships, as well as sharing information and experience in the provision of meteorological services to air traffic management;
- (2) To align their operating plans in terms of regional and subregional activities supporting the future air traffic management system;

Urges Members to share information and experience in developing and integrating aeronautical meteorological services in support of GANP and ASBU;

Requests the Secretary-General to provide secretarial and financial support, within the approved budget, to the activities related to GANP and ASBU prioritized by CAeM, including regional and subregional events intended to raise the awareness Members of the impacts, risks and opportunities for the National Meteorological and Hydrological Services.
