



ICAO BANGKOK

UNITING AVIATION

ICAO ANNEX 3 AMENDMENT

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Seminar on Meteorology and Air Traffic Management
(MET/ATM Seminar) 1 May 2023





State letter Ref.: AN 10/1-23/1, 26 January 2023

Proposals for the amendment of Annex 3, the new PANS-MET and consequential amendments to Annexes 6, Parts I, II and III, 10, Vol. II, 11, 15, PANS-ABC, PANS-AIM and PANS-ATM arising from the fifth meeting of the Meteorology Panel (METP/5)



State letter Ref.: AN 10/1-23/1, 26 January 2023

- Restructured Annex 3 and new PANS-MET
- Space weather information services
- Quantitative volcanic ash information
- IAVW
- IWXXM
- WAFS
- Definitions – MET authority and MET service



State letter Ref.: AN 10/1-23/1, 26 January 2023

- Comments – not later than 26 July 2023
- Applicability – 28 November 2024, except for quantitative volcanic ash information – 27 November 2025



Restructured Annex 3 and the new PANS-MET

- Recommendation (5/2) by the Meteorology Divisional Meeting (2014)
- Migration of MET from "product-centric" to "information-based" environment under SWIM
- Evolution of MET in line with GANP
- Separation of performance and functional requirements (Annex 3) from technical specifications (PANS-MET)



Further development of space weather information services

- Upgrade from Recommended Practices to Standards
- Clarify the roles of global and regional space weather centres
- Updated template for space weather advisory
 - intensity identifier
 - operational status identifier
- Delete requirements for NOTAM related to space weather



Quantitative volcanic ash information and IAVW updates

- Quantitative volcanic ash information – new Recommended Practice
 - As of 28 November 2024, only those VAACs in a position to do so
 - As of 27 November 2025, all the VAACs
- VONA as a Recommended Practice
- Clarify to whom the VONA needs to be disseminated
- Delete the aviation colour code from the volcanic ash advisory
- Minor corrections to the template for the volcanic ash advisory and the relevant tables in the PANS-MET



Further development of IWXXM

- Dissemination of additional MET in IWXXM format
 - WAFS forecasts (i.e. upper air gridded and significant weather (SIGWX) forecast)
 - VONA
- Remove limitation of number of RVR in METAR/SPECI in IWXXM format



Further development of WAFS

- Updates to WAFS forecasts to enable the GANP
- WAFCs to issue upper air gridded information with increased spatial and temporal resolution for extended forecast periods (up to 36 hours)
- Issue SIGWX forecast in IWXXM format



Improved definition of meteorological authority

- Clarify definition for "meteorological authority"
- New definition for "meteorological service provider"
- Distinguish the roles and responsibilities of both entities
- Reflects arrangements implemented by States



State letter Ref.: AN 2/36-23/6, 13 February 2023

Proposals for amendment of Annexes 3, 4, 10, Volumes II and III, 15, PANS-ABC, PANS-AIM, as well as the publication of the first edition of PANS-IM, concerning aeronautical information management, **system-wide information management and information security**

- The proposals for amendment arise from the second meeting of the Information Management Panel (IMP/2)



State letter Ref.: AN 2/36-23/6, 13 February 2023

- Aircraft with folding wing tips
- CBTA methodology
- Consistency of data that appears in multiple aeronautical information products
- Processing of multi-part NOTAM
- NOTAM code for hang gliding and paragliding activities
- Proposed amendments to Annex 15 and PANS-AIM concerning editorial changes
- **System-wide information management and information security**



State letter Ref.: AN 2/36-23/6, 13 February 2023

- Comments – not later than 14 August 2023
- Applicability – 28 November 2024
- Proposed amendment related to **system-wide information management and information security** refers to Manuals under development (to be published before the envisaged applicability date)
 - Manual on System-wide information management implementation (Doc xxxxx)
 - Manual on Information Security (Doc xxxxx)



SWIM and information security – Annex 3

New recommendation

2.2.10 Recommendation.— *States should ensure that the meteorological information supplied to the users listed in 2.1.2* is provided through information services*

**operators, flight crew members, air traffic services units, search and rescue services units, airport managements and others concerned with the conduct or development of international air navigation*



SWIM and information security – Annex 3

New notes (to follow 2.2.10)

Note 1.— In the context of system-wide information management, the notion of information service addresses machine-to-machine interaction in a service-oriented architecture.

Note 2.— Procedures on information services are contained in the Procedures for Air Navigation Services — Information Management (PANS-IM, Doc xxxxx).

Note 3.— Guidance material on information services can be found in the Manual on System-wide Information Management Implementation (Doc xxxxx).



SWIM and information security – Annex 3

Rationale:

- States are encouraged to make sure MET information is made available via information services following the introduction of SWIM
- In SWIM – information services are the means to be used for MET information exchange



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