



INTERNATIONAL CIVIL AVIATION ORGANIZATION

Ninth Meeting of the AASPG Infrastructure and Information Management Sub-Group (IIM/SG9)

Dakar, Senegal, from 3 to 7 August 2026

Agenda Item 3: Achievements in Infrastructure and Information Management

3.4 Progress in the implementation of the AASPG IIM Projects

WP3.4O Progress in AFI-SWX: Enhancing Space Weather Readiness and Service Provision in the AFI Region.

(Presented by PTC, AFI-SPWX Project)

SUMMARY
This working paper provides the progress of AFI-SPWX project “Enhancing Space Weather Readiness and Service Provision in the AFI region” and the challenges encountered. Action by the meeting in paragraph 3.
REFERENCE(S): ▪ Global air navigation plan (Doc 9750) ▪ Global Air Traffic Management Operational Concept (Doc 9854) ▪ Doc 10100, Manual on Space Weather Information in Support of International Air Navigation ▪ ICAO Annex 3, Amendment 78 ▪ AASPG/1 Report, Appendix 19B
This working document relates to ICAO Strategic goals: ▪ A – Every Flight is Safe and Secure ▪ C – Aviation delivers Seamless, Accessible and Reliable Mobility for All

1. INTRODUCTION

- 1.1 Annex 3 to the Chicago Convention includes the requirement for States to provide space weather information to operators and flight crew members, with an applicability date of 8 November 2018. However, most States of the AFI region currently lack:
 - a) National regulations and operational procedures for handling ICAO SWX advisories.
 - b) Awareness of space weather impacts.
 - c) Trained personnel to interpret and use this information.

- 1.2 The AFI-SPWX project aims to address these gaps and support States for the implementation of the SWX requirements with the main objectives being to:
- a) Raise stakeholder awareness of space weather impacts on aviation.
 - b) Support States in implementing ICAO Annex 3 space weather provisions, particularly those with limited capabilities for the provision of space weather services.
 - c) Develop national and regional capabilities for using space weather advisories.
 - d) Raise awareness on aviation impacts of space weather.
 - e) Develop national regulations on the implementation of Space Weather requirements.
 - f) Develop SOPs for SWX reception and use.
 - g) Integrate SWX advisories into MET and ATM operations.
 - h) Training for MET, ATM, and airline personnel.
 - i) Coordinate with ICAO Global SWX Centers (CRC, PECASUS, ACFJ, NOAA) for the provision of SWX information.
 - j) Develop a mechanism to monitor and collect data on the implementation of requirements for the provision of SWX information.

2. DISCUSSIONS

- 2.1. Based on the reframed project plan that was approved during AASPG/1 (App. 19B Report AFI-SPWX Project), the AFI-SPWX project description has been reviewed to include the project aims and objectives as stated in section 1.2.
- 2.2. The launch meeting was held on 12 May 2026 where the project documentation was shared by the secretariat and the PTC was nominated.
- 2.3. The project team held its first meeting on the 28th May 2026 to discuss the work program, project plan, and execution thereof. The second meeting of the project was held on the 25th June 2026 to draft the working paper to be presented during the IIM/SG9 meeting. Deliverables are as follows :
- 2.3.1.**Deliverable 01:** The setup of the project was done by the secretariat on 12 May 2026, where the PTC was nominated.
- 2.3.2.**Deliverable 02:** Gap analysis report on space weather awareness and systems: The team has commenced the development of the survey questionnaire that will be used to gather information regarding the level of awareness and implementation of space weather provisions by States of the AFI region, in accordance with the requirements of ICAO Annex 3 and its associated amendments.
- 2.3.3.**Deliverable 03:** Development of Project documents and tools: Under this deliverable, the Regulatory guidance materials, Operational Guidance materials and SOPs for implementing SWX will be developed. The project will Conduct a Validation workshop for the developed guidance materials and SOPs related to the implementation of SWX, whereafter, the results will be analysed.
- 2.3.4.**Deliverable 04:** Based on the results from Deliverable 2 the team will conduct a training needs assessment to identify capacity building requirements and then develop a SWX training plan. Based on the assessment, States will be invited to participate in SWX trainings, workshops, and seminars. Upon completion of the training activities, the project team will evaluate their effectiveness to determine whether the objectives were achieved
- 2.3.5.**Deliverable 05:** Mechanism for collecting operational feedback and user satisfaction assessments: The project team will develop customer satisfaction questionnaires to collect operational feedback and assess user satisfaction. The responses will be analysed to determine customer satisfaction levels, identify areas of improvement, and inform the enhancement of SWX service provision.

2.3.6.Deliverable 06: A final Project Report will be compiled, documenting the project's activities, achievements, lessons learned, challenges encountered, and recommendations for future implementation.

2.4 Action plan and Implementation status: The team has started working on the project implementation plan and progress in this regard will be reported during the quarterly meeting.

2.4 Challenges: In terms of conducting the project work so far, no challenges have been experienced. However, looking at Deliverable 4, which has to do with training and workshops, the challenge that the project will have is the availability of funds to enable the project to conduct the workshops and training.

3. ACTIONS BY THE MEETING

3.1 The meeting is invited to:

- a) take note of the information presented in this paper, highlighting the progress made by the AFI-SPWX project.
- b) Provide guidance for effective implementation of the Project activities.

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