INTERNATIONAL CIVIL AVIATION ORGANIZATION

Second meeting of the Africa-Indian Ocean Aviation System Planning and Implementation Group (AASPG/2)

Livingstone, Zambia , November 2 - 6 , 2026

Agenda item 4: Implementation of safety and air navigation objectives, targets and indicators, including priorities set out in regional safety and air navigation plans

Development and provision of a National Guide relating to advisory information on space weather phenomena in Gabon.

(Note presented) (by Gabon)

SUMMARY	
This note presents Gabon's experience in developing a national guide on space weather, based on ICAO Doc 10100. Intended for air navigation service providers, operators, and meteorological services, this guide facilitates the use of space weather advisory information. It thereby promotes a harmonized implementation of the provisions of the PANS-MET (Doc 10157) and constitutes a reproducible best practice in the AFI region. The next steps are outlined in paragraph 3.	
REFERENCE(S)	• Annex 3 – Meteorological Services for International Air Navigation; • PANS-MET, Doc 10157 • Doc 10100, Manual On Space Weather Phenomena, In Support of Air Navigation; • Report on the ASECNA Seminar On Space Weather.
Strategic objectives	*A - Every flight is safe and secure* *C - Aviation ensures smooth, accessible and reliable mobility for all* *D - No country left out*

1 INTRODUCTION

1.1 The International Civil Aviation Organization has established a framework for the coordinated provision of space weather information, known as the ICAO Space Weather Information Service (SWIS). A network of four global Space Weather Centres, supported by the South African Regional Space Weather Centre, operates in a coordinated manner within SWIS to monitor disturbances in the solar system that could affect the safety of aircraft in flight, including passengers on board.

1.2 Amendment 78 to Annex 3 of ICAO, adopted in March 2018, introduces requirements for space weather advisory services, which must be provided to air operators by the ANSPs.

1.3 In 2019, ICAO published the Manual on the Provision of Space Weather Information in Support of International Air Navigation (Doc 10100). This Manual describes the practices to be applied for the provision, receipt and use of information on space weather phenomena affecting international air navigation.

1.4 The 23rd APIRG meeting, through Conclusions 23/29 and 23/30, established a regional project on space weather, coordinated by an expert from the South African National Space Agency (SANSA). Gabon is participating in this project by appointing an expert.

2. ANALYSIS

2.1. Provision of a Guide on the provision of space weather information

2.1.1. Based on the provisions of ICAO Doc 10100 and applicable national regulations, a Guide to Space Weather Information was developed and published by Gabon CAA in June 2025 and has since been made available on its website www.anacgabon.org . It is also accessible and easily downloadable.

2.2. Operational added value of the Guide

2.2.1. The Guide is the primary national guidance document for advisory information on space weather phenomena. It provides air operators, air navigation service providers, and meteorological services with practical information to better understand the nature of observed phenomena, their potential impacts on flight operations, and possible mitigation measures.

2.2.2. The document also helps to improve the interpretation of advisory information issued by global space weather centers and promotes a harmonized implementation of the provisions of ICAO Annex 3 at the national level.

2.2.3. In addition, it provides awareness and training support for personnel involved in the provision or use of aeronautical meteorological information.

2.3. Contribution to regional and global implementation

2.3.1. The Guide has been presented at several technical meetings dedicated to space weather. In particular, it was the subject of a flyer at the World Workshop on Space Weather, in Boulder in 2026; and was used during the ASECNA seminar, organized by ICAO in December 2025 in Dakar and dedicated to the implementation of requirements relating to the provision of space weather information to users.

3. ACTION TO BE TAKEN BY THE MEETING

3.1. The meeting is invited to:

a) take note of the information provided in this note;

b) encourage AFI region States to develop or adapt national guidance materials relating to advisory information on space weather;

c) invite States to strengthen awareness-raising activities among air operators and air navigation service providers regarding the potential impacts of space weather phenomena; and
encourage the ICAO WACAF and ESAF Regional Offices in supporting the implementation of space weather provisions.