



ICAO

INTERNATIONAL CIVIL AVIATION ORGANIZATION

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*ASECNA Seminar on the Implementation of
requirements for the provision of Space
Weather Information to Aviation: From
Awareness to Operational Readiness*

Dakar, 8-12 December 2025, Dakar, Senegal

Session 4 : Advisory Interpretation – Hands-on Exercises

The Secrétariat

Bureau WACAF

2.3 Role of Global/Regional SWXCs



Roles of Global and Regional SWXCs

Continuous monitoring, timely issuance and supply of SWX advisory information

---- Annex 3, 3.7.1 <global centre's roles> -----

3.7.1 A Contracting State, having accepted the responsibility for providing a space weather centre (SWXC) within the framework of the space weather information service, shall arrange for that centre to:

a) monitor relevant ground-based, airborne and space-based observations to detect, and predict when possible, the existence of space weather phenomena that have an impact in the following areas:

- 1) high frequency (HF) radio communications;
- 2) communications via satellite;
- 3) GNSS-based navigation and surveillance; and
- 4) radiation exposure at flight levels;

b) issue advisory information regarding the extent, severity and duration of the space weather phenomena that have an impact referred to in a);

c) supply the advisory information referred to in b) to:

- 1) area control centres, flight information centres and aerodrome meteorological offices;
- 2) other SWXCs; and
- 3) international OPMET databanks and aeronautical fixed service Internet-based services.

b) issue updated advisory information on space weather phenomena, as necessary, but at least every six hours until such time as the space weather phenomena are no longer detected and/or are no longer expected to have an impact.

Roles of Global and Regional SWXCs

24-hour watch, mutual back-up operations, regional SWXC's support to global SWXCs

---- Annex 3, 3.7.2 – 3.7.3 <both global/regional centres' roles> -----

3.7.2 SWXC shall maintain a 24-hour watch.

3.7.3 In case of interruption of the operation of a SWXC, its functions shall be carried out by another SWXC, as designated by the SWXC Provider State concerned.

---- Annex 3, 3.7.4 <regional centre's role> -----

3.7.4 A Contracting State, having accepted the responsibility for providing a regional space weather centre (SWXC) within the framework of the space weather information service, shall arrange for that centre to support the global SWXCs in their responsibilities under 3.7.1, 3.7.2 and 3.7.3.



Thank You!