



ICAO

# INTERNATIONAL CIVIL AVIATION ORGANIZATION

A UN SPECIALIZED AGENCY

*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 5 : Space Weather Supplying Implementation

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The Secrétariat

*Bureau WACAF*

## 5.1

### Group Work 1

Identification of  
training needs  
and  
stakeholders



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## The 4 typical questions on ICAO SWIS provisions

### Standard vs. Recommendation

*Q : Could some geographical areas be excluded from the coverage of space weather information service?*

*A : No.*

- Impact and coverage may vary according to the intensity of the solar event, however, effect of space weather phenomena cannot be 100% ruled out in anywhere around the globe.
- Provision of SWIS as a ICAO Standard brings significant benefit for safety of air navigation and the health of air crew and passengers.

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## The 4 technical pillars of ICAO SWIS provisions

### Designation of ICAO SWIX service providers

*Q : Do we really need to designate authorized centres, when so many entities are producing information on space weather phenomena?*

*A : Yes.*

- As a logical consequence of the Standard for ICAO SWIS provisions, there is a need to designate authorized entities (centres) to guarantee that the service is provided without interruption on every part of the planet, to all Contracting States and aeronautical users.

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## The 4 technical pillars of ICAO SWIS provisions

### Obligation for all users to obtain the same ICAO space weather advisory

*Q : Couldn't we allow users to obtain and use space weather information from other preferred sources?*

*A : No. Users may refer to supplemental information from other sources, however, ICAO SWIS is the official authoritative source for space weather information.*

- As with other conventional meteorological information (e.g., METAR/SPECI, TAF, SIGMET), it is necessary for all operational stakeholders (i.e., pilot, operators, air traffic controllers, airport authorities...etc) to rely on identical authoritative information for safe operations.
- It does not prevent users from obtaining supplemental information from other sources.

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## The 4 technical pillars of ICAO SWIS provisions

### ICAO SWIS as a global service

*Q : Why did we implement specific provisions of ICAO SWIS as a global service?*

*A : The global service model was assessed to be more efficient and effective, and ICAO provisions are needed to ensure proper functioning of the global service.*

- ICAO SWIS provides harmonized single-voice information to assist users' operational decision making, through operational coordination among space weather centres (SWXCs).
- The global model enables continuous space weather monitoring with global coverage and timely issuance of accurate space weather advisory information without redundancies and inconsistencies.

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## Group Work 1 Discussion Themes

- 1. What aspects or contexts in ICAO SWIS needs better understandings?**
- 2. Who (stakeholders) need trainings for provision and use of ICAO SWIS?**





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Thank You!