



ICAO

*WACAF Office*

# INTERNATIONAL CIVIL AVIATION ORGANIZATION

A UN SPECIALIZED AGENCY

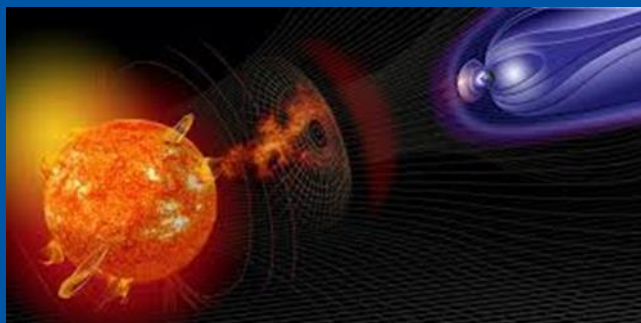
*ASECNA Seminar on the Implementation of  
requirements for the provision of Space  
Weather Information to Aviation: From  
Awareness to Operational Readiness*

*Dakar, 8-12 December 2025, Dakar, Senegal*



# Session 5

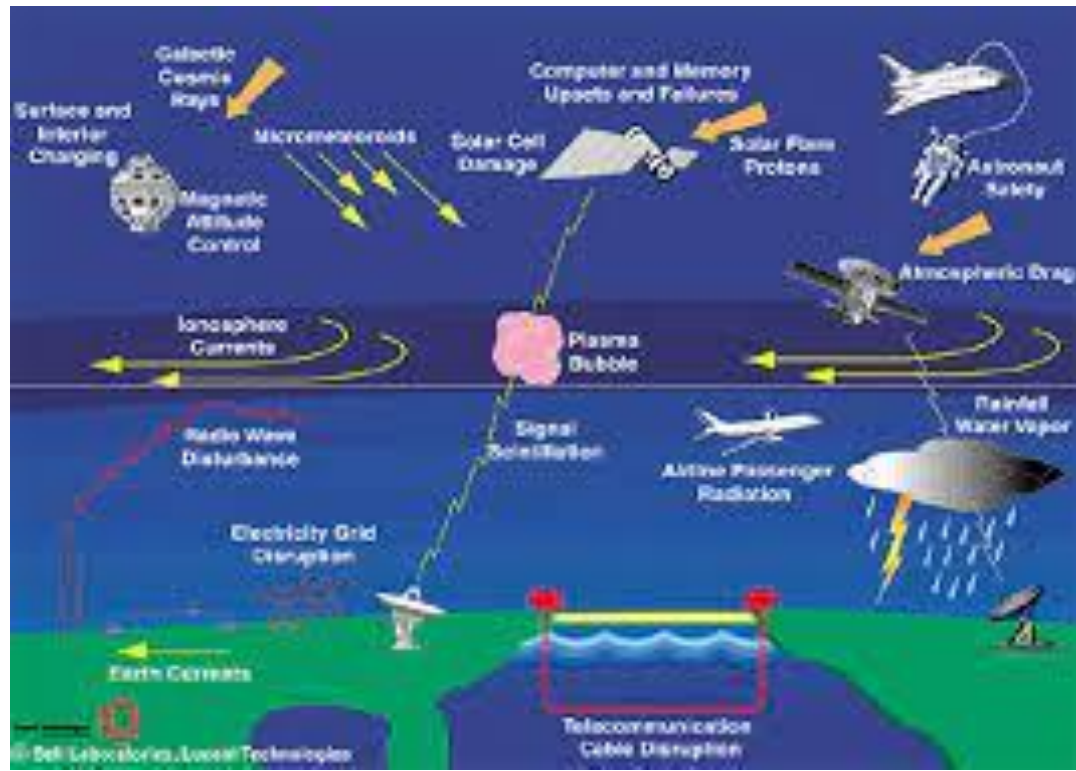
## Space Weather Supplying Implementation



### 5.2 Challenges and Opportunities in Supplying Space Weather Information

# Outlines

- 01** Key Challenges related to SWX
- 02** Opportunities in implementing SWX requirements
- 03** Activity - Exercise



## Key Challenges in Supplying SWX Information

- **Low awareness** of SWX impacts among ATS, AOC, and flight crews
- **Complex SWXA messages** requiring interpretation and localization
- **Integration constraints** with existing MET/ATM systems and workflows
- **Training gaps in SWX** and operational communication
- **Coordination difficulties** across MET, ATS, AIS, AOC, ANSPs, and regulators
- **Operational pressure** during severe SWX events (rapid interpretation needed)

- **Enhance regulatory and operation framework for the provision of MET information to aviation.**
- **Improve aviation safety** and system resilience
- **Modernization of MET services**
- Enhanced **cross-disciplinary collaboration** (MET–CNS–ATM–AOC–AIS)
- Better decision support for airlines and flight dispatchers
- **Strengthened competencies** through SWX training and capacity building.

## Group 2 Activities

1. *Conduct a brainstorming session to identify the key challenges faced in implementing space weather requirements across ASECNA Member States.*
2. *Develop actionable recommendations to address the identified gaps and strengthen compliance.*



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Thank You!