

“Space Weather Centre for Spain Initial Establishment and Core Capability Developments: Part 1”

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Why Space Weather is important

Strategic relevance: Space Weather is not only about solar science, but it is also security, resilience, strategic autonomy and sustainability

Operational relevance: It affect both for space assets and services and for critical infrastructures on Earth, especially energy, communications, transport and defense.

How do we get ready for Space Weather events?

- National Space Weather services
- user-driven warning, preparedness capabilities & protocols
- protection of critical infrastructures & services
- future fully operational Space Weather capability for Spain

Objective Space Weather Days for Spain

Why are we here?

- Bring together the Spanish Space Weather community
- Identify user needs across the most relevant sectors
- Assess existing capabilities, knowledge and infrastructure already available in Spain
- Support future coordination and development activities
- Collect practical input from users, institutions, academia and industry

Strategic context: This workshop is a key step towards building Spain's national Space Weather capability, connected to Europe and aligned with ESA activities.

Key Questions and Expected Outcomes

Key questions we want to answer:

- Which users are most affected by Space Weather in Spain?
- What information and service levels they actually need?
- What response times and operational support are required?
- What capabilities already exist in Spain, and where are the gaps?
- What should a national Space Weather centre for Spain actually provide?

Expected outcomes

By the end of the workshop, we aim to have:

- a clearer understanding of user needs
- a better map of national capabilities
- an initial view of priority services
- input for the first step towards a Space Weather Center for Spain
- Preliminary roadmap to implement National Space Weather Service

ITT for the Space Weather Centre for Spain (1/2)

Activity 14: Initial Establishment and Core Capability Developments – Part 1

ESA S2P Reference: S3-SW-16

Budget: 1.0 M€

Procurement start: Q3 2026

Contract duration: 15 months

Purpose:

- Initial establishment and operation of a Space Weather Centre for Spain
- Delivery of tailored, high-quality services to end users
- Development of the core tools, procedures and capabilities needed for future operational growth
- Build the foundation for a future 24/7 operational capability
- Connect the Spanish effort with the ESA Space Weather Service Network

ITT for the Space Weather Centre for Spain (2/2)

From concept to initial operations

Part 1 will deliver:

- User mapping and stakeholder engagement
- Front desk tools, procedures, protocols and service setup
- translation of complex Space Weather data into actionable products
- Initial operations on an 8/5 basis, with on-call support
- User-oriented dashboards and information channels
- Training, exercises and simulations
- A roadmap for the future operational center
- And preparation for Part 2 (Q3 2027)

Muchas gracias



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