



e-swallow
EUROPEAN SPACE WEATHER
AND SPACE CLIMATE ASSOCIATION

WORKING GROUPS



TECHNICAL (WG TECH)

The Technical WG is responsible for providing critical technical support to E-SWAN, including the establishment of voting mechanisms when needed.

One of the group's primary functions is to offer technical assistance to E-SWAN members and other working groups, fostering collaboration and synergy across the organization.

They maintain and manage vital digital infrastructure, such as the organization's website and essential tools like cloud services and mailing lists.

To enhance communication and coordination, the **Technical WG** establishes mailing lists for each working group and other E-SWAN organs, promoting information flow and connectivity.

They also ensure the smooth operability of cloud services, vital for data storage and collaborative efforts within the organization.

Furthermore, this WG serves as a bridge between different E-SWAN working groups by inviting members to its meetings, fostering a sense of unity and shared purpose.

Finally, the **Technical Working Group** lends its expertise to support the Publication Committee in delivering the E-SWAN Newsletter, reinforcing the dissemination of essential information and updates to the E-SWAN community.

SPACE WEATHER POLICIES AND PLANS (WG SW2P)

The E-SWAN Working Group “Space Weather Policies and Plans” (SW2P) focuses on actions that contribute to the assessment of the national and international landscapes concerning Space Weather policies, planning and related issues, as well as their impact on the European Space Weather and Space Climate (SWSC) community.

SW2P WG overviews methodologies of collecting information about plans from international entities dealing with **SWSC**, to what extent Space Weather is perceived as a threat, and, the related national procedures in place to mitigate the associated risks.

The overall goal is to harmonize, develop and improve the European **Space Weather and Space Climate policies and plans**, including infrastructures for research, services and related activities.



LIAISON OFFICE (WG LIAS)

The Liaison office (LIAS) Working Group is formed by people that have roles in associations related to E-SWAN activities, such as:

SCOSTEP, COSPAR, IAGA, IAMAS, IAU, IU, SCAR, URSI, IUGG, WMO, UN/COPUOS, EGU, EPS, etc.

Their role is to represent E-SWAN in those associations liaising with them and the E-SWAN Executive Board about initiatives with common interest.

E-SWAN President and Vice-President are ex-officio members of this WG.

In a highly multidisciplinary environment of space weather and space climate, finding novel ways to collaborate and support common goals are key to obtaining wider applicability.

The **LIAS WG** efforts currently focus on providing suggestions for leveraging already established concepts (such as COSPAR iSWAT).



FUNDING (WG FUND)

WG Funding (FUND) is dedicated to finding sustained opportunities to fund the European Space Weather and Space Climate activities.

In order to cope with the growing vulnerability of our modern society to space weather, there is a need for sustained funding for space weather observation and modelling activities, that go beyond capabilities of individual countries.

In Europe, space weather activities have been developed since 2009 by the **European Space Agency (ESA)**, through the **Space Situation Awareness (SSA)** and **Space Safety Program (S2P)** recently being entrusted also by the **European Commission (EC)** in managing the related EC efforts.

In particular, ESA is developing the pre-operational **Space Weather Service Network (SWESNET)** and focusing on provision of measurements from spacecraft developing Vigil spacecraft and Distributed Space Weather sensors concepts.

At the international level, the **World Meteorological Organisation (WMO)**, has established an Expert Team on Space Weather and has adopted a Four-year Plan for WMO's Coordination of Space Weather Activities 2020-2023.

In response to the WMO requirement, the **European Meteorological satellite organisation EUMETSAT** has expressed an interest in developing operational space weather activities.

DIVERSITY, EQUITY, AND INCLUSION (WG DE&I)

E-SWAN Diversity, Equity, and Inclusion (DE&I) Working Group (WG) is dedicated to promoting DE&I within the association and interact with similar working groups in relevant associations.

Diversity and inclusion are widely recognized within the E-SWAN community as essential features of excellence in the space weather and space climate activities.

E-SWAN provides a safe, welcoming environment and cultivates an inclusive culture that supports the success of every individual E-SWAN member and their activities.

The **DE&I WG** objectives include:

- **Promote DE&I** within all E-SWAN-related events in collaboration with the ESWW PC and EOCom.
- **Raise** awareness about **DE&I** in the E-SWAN community.
- **Promote** E-SWAN's vision and values on **DE&I** to foster within E-SWAN a culture that embraces these principles at every level of our organization.
- **Make** events such as conferences and workshops in our field and website content more accessible to everyone.

E-SWAN aspires to operate as a model organization for advancing diversity and inclusion in the space weather and space climate community.

OPERATIONAL ACTIVITIES, INFRASTRUCTURE, DATA AND MODELS (WG OAIDM)

The OAIDM is dedicated to reviewing, proposing, and harmonising operational activities, infrastructure, data, and models in Space Weather and Space Climate (SW&SC).

For **SW&SC** services to be actually useful and practical for the wider community, these services must provide reliable and accessible information in a format that can be relatively easily understood and beneficial to the end-users.

Currently, most **SW&SC** indicators come from a wide range of independent providers, often linked to scientific exploratory space missions with a limited lifetime of a few years.

Some **facilities of observation** are rather underfunded and are therefore not used to good advantage.

There is also **no homogeneity nor a widely accepted standard** format in what and how the observations are delivered. All these (and many more) shortages restrain the usefulness of the available data.

A few portals collect the data from various providers in order to, at least, centralise the information, but much more could be done to **harmonise the data support and service provision.**

All sectors would therefore benefit from a global view of the issues and strategy to:

- **Identify** specific needs in terms of ground-based and space-based infrastructure, instrumentation, and modelling for SW&SC. Here, infrastructure encompasses facilities for data acquisition, distribution, and long-term storage;
- **Improve** the provision of operational services to meet the needs of users;
- **Identify** areas where collaboration should be encouraged among various stakeholders and data providers in SW&SC and explore potential mechanisms for collaboration, such as recommendations on data formats and distribution protocols.



SUSTAINABILITY (WG SUST)

In a context where natural resources are limited, the objective of the E-SWAN working group on sustainability is to examine the environmental impacts of our activities, and to search for alternative, less damaging, ways of working.

We aim at sharing information that empowers our community to make adequate choices to progressively reduce its carbon footprint and environmental impact.

We meet on a monthly basis to share ideas and discuss future actions.

Currently, our actions include a series of webinars presenting different examples of how sustainability issues arise in space activities **(AI, scientific meetings, life-cycle assessment, etc.)**, the organisation of a workshop before the ESWW on **«Can space activities be made sustainable?»**, and also the organisation of a plenary session and a TDM during the ESWW.

**WE WELCOME COMMUNITY
FEEDBACK AND NEW MEMBERS!**





Progetto grafico Laboratorio Grafica&Immagini INGV

Anyone with an interest and/or competence in Space Weather and/or Space Climate can become a member of the **E-SWAN** regardless of their national origin or residence.

Did you participate in **ESWW2023**?
Membership is included in the registration.



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