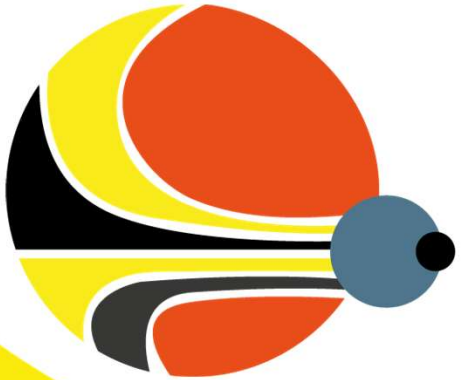


e-swan
EUROPEAN SPACE WEATHER
AND SPACE CLIMATE ASSOCIATION

Prior to ESWW2026 – E-SWAN Space Weather Training Course
29 Oct – 1 Nov 2026

Executive Board: L. Spogli[1], S. Poedts[2], M. Brchnelova[3], J. Urbar[4], S. Chabanski[5],R. Van der Linden[6]

[1]Istituto Nazionale di Geofisica e Vulcanologia (IT)
[2]KULeuven (BE) & University of Maria Curie-Skłodowska (PL),
[3]Ministry of Defense of Netherlands,
[4]Institute of Atmospheric Physics (CZ),
[5]Royal Belgian Institute for Space Aeronomy (BE),
[6]Royal Observatory of Belgium (BE)

Thursday, 29 October

12:00 → 13:00 **Lunch**

13:00 → 13:15 **Welcome**

Speaker: E-SWAN Representative

13:15 → 13:30 **Introduction - Why is space weather important?**

Speaker: Petra Vanlommel (STCE)

13:30 → 14:10 **Introduction to space weather**

Speaker: Petra Vanlommel (STCE)

14:10 → 16:00 **Space weather phenomena: e.m. radiation and solar wind**

Speakers: Elke D'Huys (STCE), Petra Vanlommel (STCE)

16:00 → 16:30 **Coffee & tea**

16:30 → 17:30 **Space weather phenomena: particle radiation**

Speaker: Claudio Corti (CCMC)

17:30 → 18:00 **Space Weather phenomena: exercises**

Speakers: Elke D'Huys (STCE), Petra Vanlommel (STCE)

Friday, 30 October

09:00 → 09:40 **Space Weather in Italy**

09:40 → 11:10 **Space Weather bulletin**

Speakers: Elke D'Huys (STCE), Petra Vanlommel (STCE)

11:10 → 11:40 **Coffe & Tea**

11:40 → 12:40 **Space weather impacts on Magnetosphere and Ionosphere**

Speakers: Elke D'Huys (STCE), Petra Vanlommel (STCE)

12:40 → 13:40 **Lunch**

13:40 → 15:10 **Space Weather Impacts**

15:10 → 15:40 **Break**

15:40 → 16:50 **Satellite impacts: model and exercise**

Speaker: Yihua Zeng (CCMC)

16:50 → 17:50 **Space Weather impacts exercise**

Saturday, 31 October

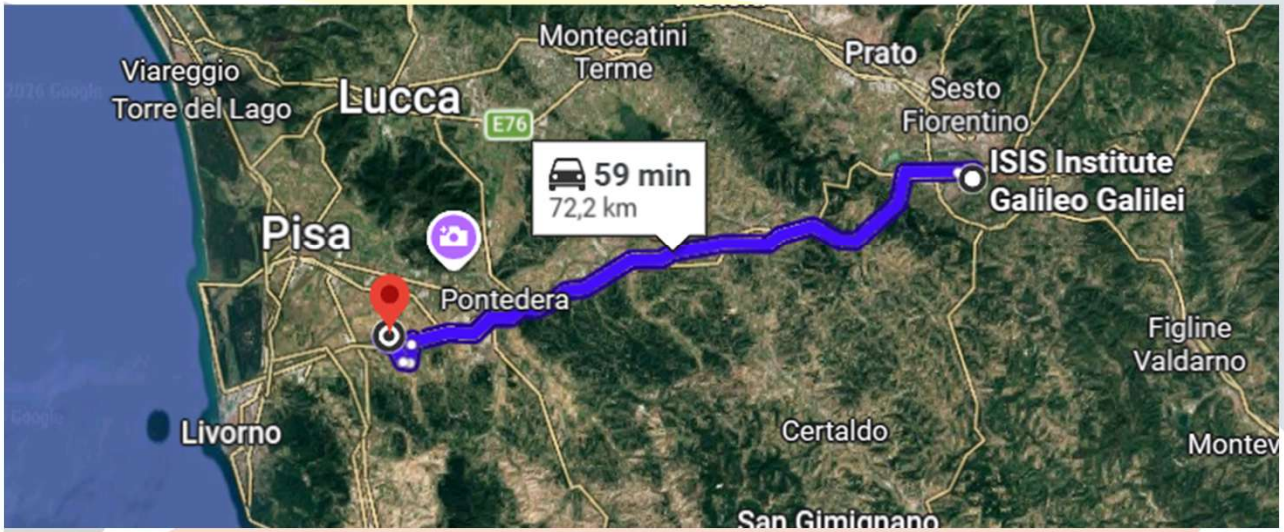
08:30 → 08:40 **Departure from Hotel Villa Carlotta**

08:40 → 12:40 **Visit Virgo Site**

12:40 → 13:00 **Return to hotel**



VIRGO



Sunday, 1 November

09:30 → 10:45 **Human health risks from radiation**

Speaker: Claudio Corti (CCMC)

10:45 → 11:15 **Aviation**

Speaker: Petra Vanlommel (STCE)

11:15 → 11:45 **Break**

11:45 → 12:45 **Impacts: aviation**

Speaker: Petra Vanlommel

12:45 → 13:00 **Wrap up**

Speaker: E-SWAN Representative

13:00 → 14:00 **Lunch**

14:00 → 17:00 **E-SWAN Sustainability workshop: Climate Fresco or Space Fresco**

Collaborative workshop that allow you to understand the systemic aspects of climate change or Space activities.

17:00 → 17:30 **Break**

17:30 → 18:30 **E-SWAN Sustainability workshop: Discussion: how to move between academia and industry, including a focus on how sustainability aspects are addressed in both communities**

E-SWAN Executive Board



President

Luca Spogli

Istituto Nazionale di Geofisica e Vulcanologia [Italy]



Vice-President

Stefaan Poedts

Katholieke Universiteit Leuven [Belgium]



Executive Director

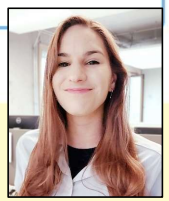
Ronald Van der Linden

Royal Observatory of Belgium [Belgium]

General Secretary

Michaela Brchnelová

Royal Higher Institute for Defence



Treasurer

Jaroslav Urbar

Institute of Atmospheric Physics, Czech Academy of Sciences [Czech Republic]



Chair of the council

Sophie Chabanski

Royal Belgian Institute for Space Aeronomy

(The Chair of the Council is elected by *the Council*)



Timeline for Space Weather and Space Climate in Europe

- 1990: ESA starts investing in Space Weather
- 2000: ESA Space Weather Working Team (SWWT)
- 2003-2012: EU Cooperation in Science and Technology Space Weather actions (COST 724 / COST ES 803)
- **2004: First European Space Weather Week (ESWW)**
- 2009: ESA Space Situational Awareness Programme Space Weather segment (SSA-SWE)
- **2010: Journal of Space Weather and Space Climate (JSWSC)**
- 2011: EU FP7 space weather funding
- **2013: International space weather and space climate medals**
- 2017: EU H2020 funding
- 2020: ESA Space Safety Programme (S2P)

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The 3 cornerstones of the European Space Weather and Space Climate community

E-SWAN provides formal, organisational and supporting structure for these!

…but it is much more than this!



International - gold open access - peer reviewed

2024 Impact Factor*: 2.7
2024 5-year Impact Factor*: 2.9
*Journal Citation Reports™ from Clarivate, 2025



European Space Weather Week



International Space Weather and Space Climate Medals



E-SWAN Timeline



White Paper:

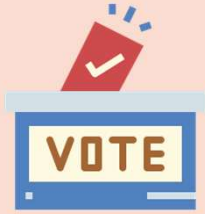
Quo vadis, European Space Weather community?

March 2021



Quo vadis, Interim Board

Public Discussion



Public Election for structure and name

Creation of an International Non-Profit Association

e-swan

April 2022



e-swan

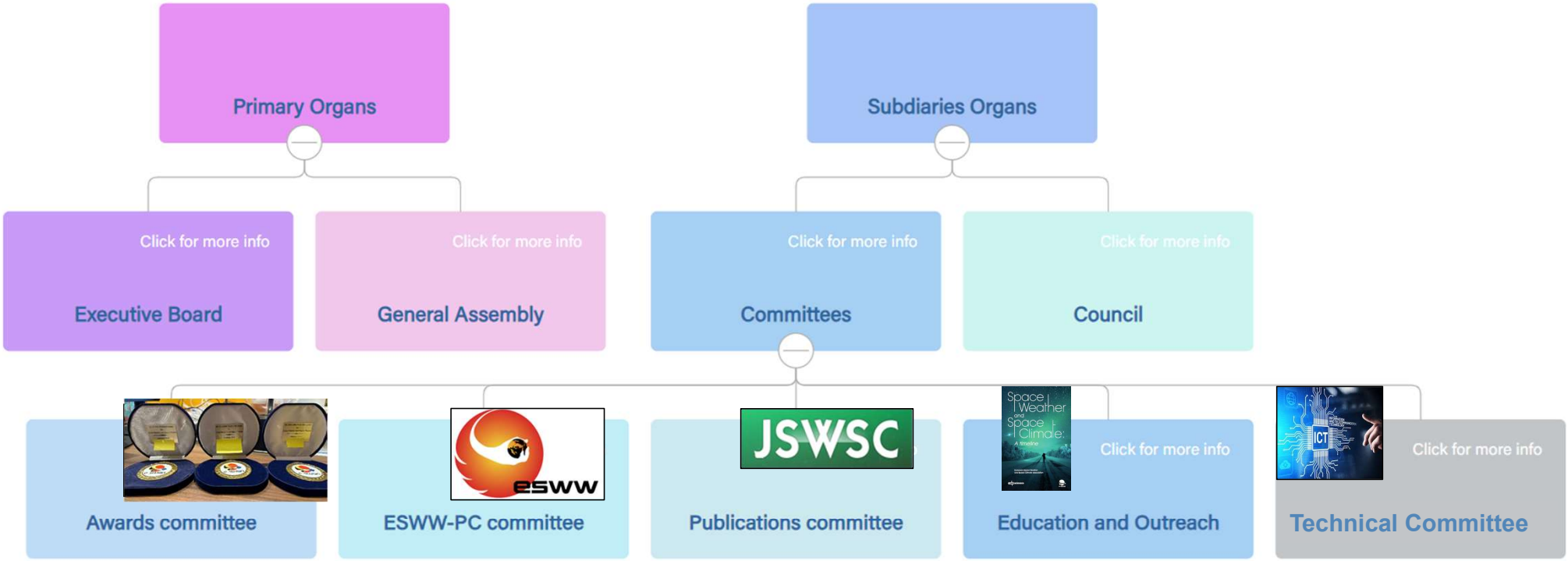
https://www.swsc-journal.org/articles/swsc/full_html/2021/01/swsc200098/swsc200098.html

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- 2020: ESA Space Safety Programme (S2P)
- **2022: European Space Weather and Space Climate Association (E-SWAN)**

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E-SWAN Organs



+ 7 Working Groups (WGs)

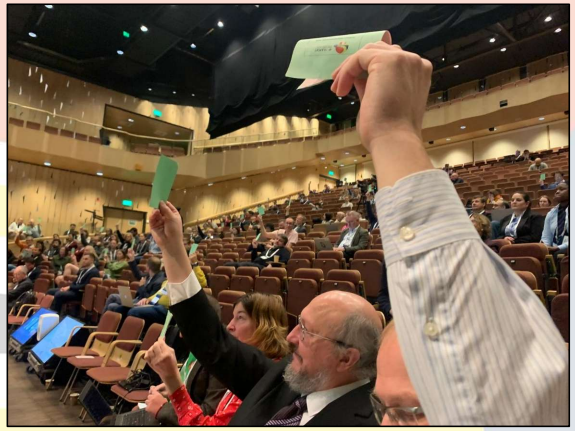
https://eswan.eu/index.php/about-e-swan/organs2

E-SWAN General Assembly

The most important E-SWAN organ: General Assembly is formed by *all* the members of the Association.

The General Assembly is responsible for the following tasks:

- To **elect the candidates** for the composition of the EB members
- To **approve the budget** of the Association drawn up by the EB
- To **approve the annual report** drawn up by the EB
- To **approve the bylaws and electoral rules** of the Association proposed by the EB
- To **approve amendments** to the Statutes (where appropriate)
- To **approve the dissolution** of the Association



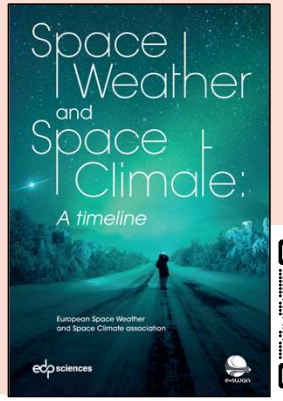
*EB: Executive Board

Education and Outreach Committee (EOCom)

Set up a dedicated social network, to organise Space Weather and Space Climate courses and webinars, to publish a Space Weather and Space Climate book, to improve the scientific content of the E-SWAN website, and any action devoted to Space Weather and Space Climate outreach and education.

Chair: Sophie Chabanski (Royal Belgian Institute for Space Aeronomy)
Co-Chair: Domenico Di Mauro (Istituto Nazionale di Geofisica e Vulcanologia)
Jean Lilensten (Institut de Planétologie et d'Astrophysique de Grenoble)
Carlos Larrodera (Universidad de Alcalá)
Lisa Nelson (Bureau of Meteorology, Australia)
Jan Janssens (Solar-Terrestrial Centre of Excellence (STCE))
Laure Lefevre (Royal Observatory of Belgium – WDC-SILSO)
Christine Verbeke (KU Leuven)
Elke D'Huys (Solar-Terrestrial Centre of Excellence – ROB/SIDC)
Lenka Zychova (Royal Belgian Institute for Space Aeronomy)
Veronika Haberle (Conrad Observatory, GeoSphere Austria)
Ádám Horváth (Budapest University of Technology and Economics)
Balazs Asztalos (Astro ELTE Hungary)



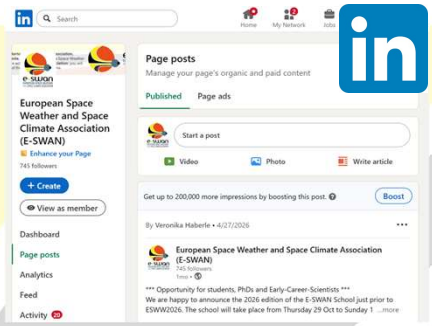


E-SWAN BOOK

MINI BOOKLET SERIES





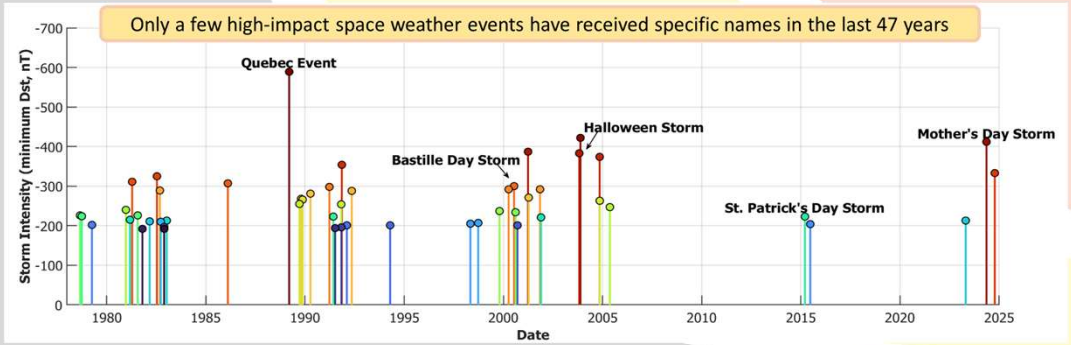




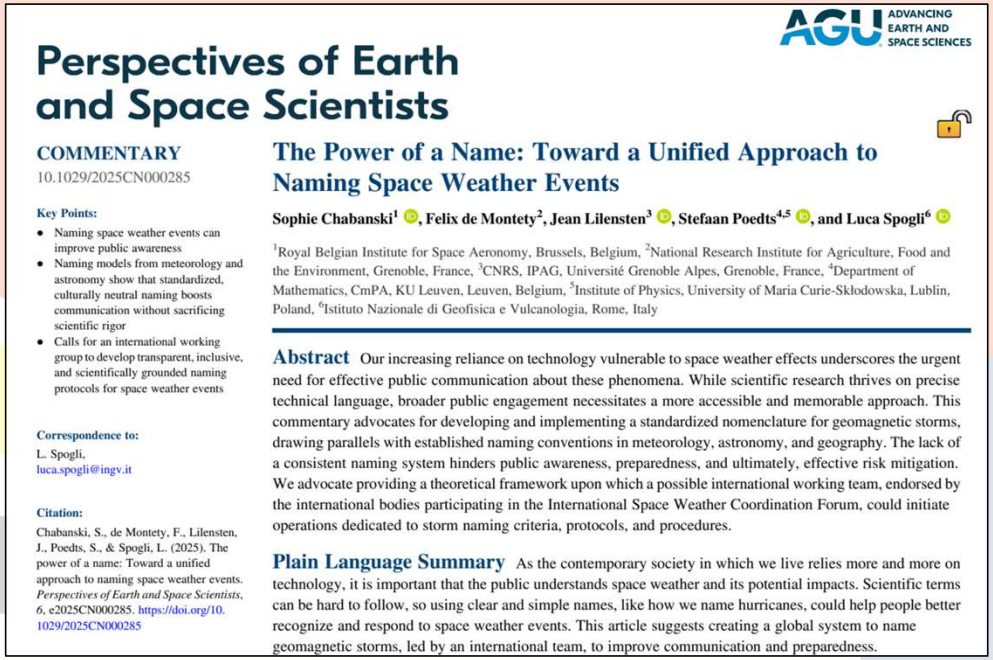
..and a lot more!

Education and Outreach Committee (EOCom) & Executive Board

Raising awareness of the importance of storm naming



Discussion has been initiated with the WMO-ISES-COSPAR Coordination Team of the International Space Weather Coordination Forum to set up an International Team for Naming



AGU ADVANCING EARTH AND SPACE SCIENCES

Perspectives of Earth and Space Scientists

COMMENTARY

10.1029/2025CN000285

Key Points:

- Naming space weather events can improve public awareness
- Naming models from meteorology and astronomy show that standardized, culturally neutral naming boosts communication without sacrificing scientific rigor
- Calls for an international working group to develop transparent, inclusive, and scientifically grounded naming protocols for space weather events

Correspondence to:

L. Spogli,
luca.spogli@ingv.it

Citation:

Chabanski, S., de Montety, F., Lilensten, J., Poedts, S., & Spogli, L. (2025). The power of a name: Toward a unified approach to naming space weather events. *Perspectives of Earth and Space Scientists*, *6*, e2025CN000285. https://doi.org/10.1029/2025CN000285

The Power of a Name: Toward a Unified Approach to Naming Space Weather Events

Sophie Chabanski[1], Felix de Montety[2], Jean Lilensten[3], Stefaan Poedts[4,5], and Luca Spogli[6]

[1]Royal Belgian Institute for Space Aeronomy, Brussels, Belgium, [2]National Research Institute for Agriculture, Food and the Environment, Grenoble, France, [3]CNRS, IPAG, Université Grenoble Alpes, Grenoble, France, [4]Department of Mathematics, CmPA, KU Leuven, Leuven, Belgium, [5]Institute of Physics, University of Maria Curie-Skłodowska, Lublin, Poland, [6]Istituto Nazionale di Geofisica e Vulcanologia, Rome, Italy

Abstract Our increasing reliance on technology vulnerable to space weather effects underscores the urgent need for effective public communication about these phenomena. While scientific research thrives on precise technical language, broader public engagement necessitates a more accessible and memorable approach. This commentary advocates for developing and implementing a standardized nomenclature for geomagnetic storms, drawing parallels with established naming conventions in meteorology, astronomy, and geography. The lack of a consistent naming system hinders public awareness, preparedness, and ultimately, effective risk mitigation. We advocate providing a theoretical framework upon which a possible international working team, endorsed by the international bodies participating in the International Space Weather Coordination Forum, could initiate operations dedicated to storm naming criteria, protocols, and procedures.

Plain Language Summary As the contemporary society in which we live relies more and more on technology, it is important that the public understands space weather and its potential impacts. Scientific terms can be hard to follow, so using clear and simple names, like how we name hurricanes, could help people better recognize and respond to space weather events. This article suggests creating a global system to name geomagnetic storms, led by an international team, to improve communication and preparedness.

Names of the May 2024 Superstorm

Mother's Day Storm
Commonly used in Europe, Africa and Asia where Mother's Day falls on the second Sunday in May

Gannon Storm
Named in the United States after a scientist who passed away the week before

Han Anniversary Storm
Used in China, marking the start of routine sunspot observations during the Han dynasty on this date

Victory Day Storm
Used especially in Russia in reference to Victory Day on May 9

The Power of a Name: Toward a Unified Approach to Naming Space Weather Events
Perspectives of Earth and Space Scientists
vol. 6, no. 1
p.e2025CN000285
2025

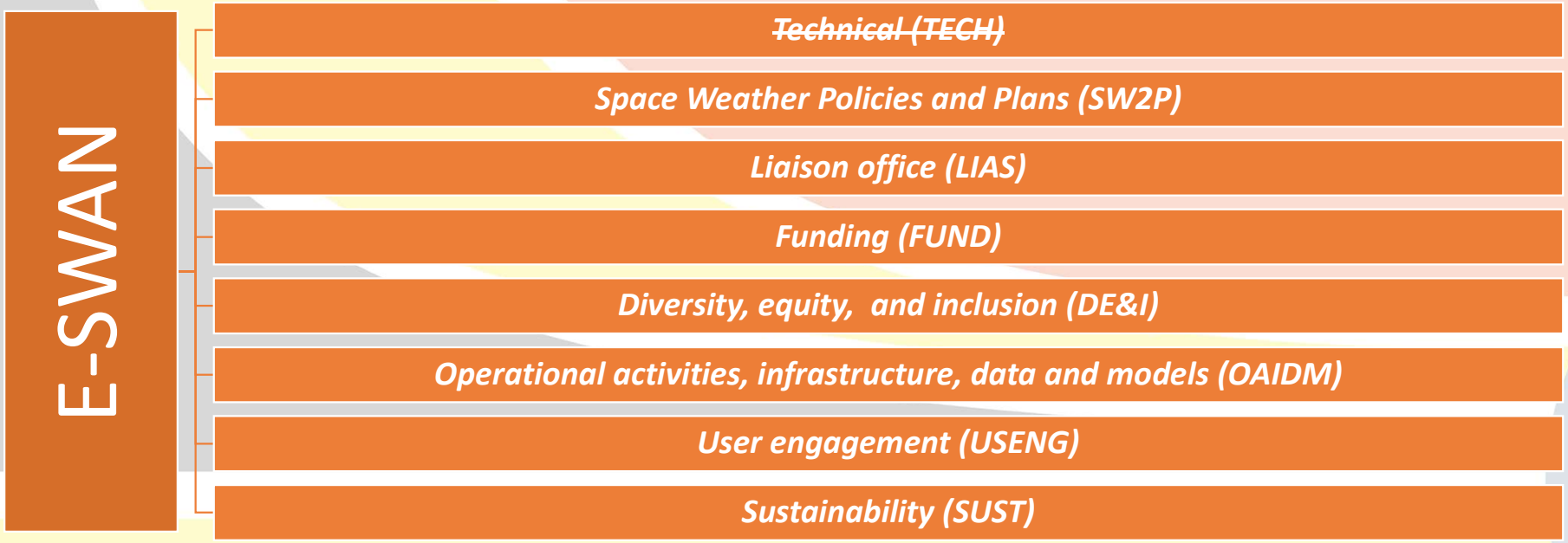


This publication was selected for AGU EOS Editor's Highlight:

Read more in INGV press release

URSI GASS Kraków Poland August 15-22 2026

Working Groups



WGs are always open for new members! Please, contact the chairs (all the details at https://eswan.eu/index.php/workinggroups)

Take-home messages

- **Unite, sustain, and develop** SWSC activities in Europe
- Central hub to **harmonise European efforts**, represent the community on the global stage, and **minimise fragmentation**
- It facilitates **cornerstone activities** through its organs
- It operates as a **bottom-up initiative** with a governance structure comprising a General Assembly, an Executive Board, 5 Committees, a Council, and 7 active Working Groups
- **Anyone** with an interest or competence in SWSC can join and participate

Interested in becoming an E-SWAN member?

As an ESWW 2026 participants , you can ask for your free coupon to enjoy a complimentary one-year E-SWAN membership.

executive-board@lists.eswan.eu