

## Report on the 10th Space Climate Symposium (SC10)

**Event:** 10th Space Climate Symposium (SC10) -

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**Date:** 9–12 June 2026

**Location:** Mariehamn, Åland Islands, Finland

**Format:** Fully on-site meeting

The 10th Space Climate Symposium (SC10) was successfully held in Mariehamn, Åland Islands, Finland, from 9 to 12 June 2026. The symposium continued the long-standing Space Climate series, bringing together researchers from around the world to discuss long-term variations in solar activity and their impacts on the heliosphere, geospace, Earth's environment, and planetary systems.

The symposium was chaired by **Prof. Ilya Usoskin (University of Oulu, Finland)** and **Dr. Kseniia Golubenko (University of Oulu, Finland)**, with **Prof. Kalevi Mursula (University of Oulu, Finland)** serving as Honorary Chair.

The scientific program was organized around three major themes:

1. **Sun** – including solar dynamo processes, long-term evolution of solar magnetic fields, long-term solar irradiance variability, solar activity and eruptions, and solar-stellar relations.
2. **Heliosphere–Magnetosphere** – including cosmic ray modulation, long-term evolution of coronal mass ejections and solar wind, geomagnetic storms and superstorms, and space climate hazards affecting technological systems.
3. **Terrestrial Effects and Worst-Case Scenarios** – including extreme events, climate and atmospheric effects, historical and natural proxies, predictability in space climate, and space climate studies of other planets.

The symposium featured keynote and invited talks by internationally recognized experts from Europe, North America, Asia, Africa, and Australia, covering recent advances and future challenges in Space Climate and Space Weather research.

SC10 attracted **104 participants** from **58 organizations** representing **23 countries**, creating a highly international and interdisciplinary environment. The event facilitated scientific exchange across multiple research communities and promoted the development of new collaborations between institutions and countries.

An important objective of the symposium was to support the participation and visibility of early-career scientists. The career-stage distribution of participants was as follows: Students: 4%, PhD researchers: 12%, Postdoctoral researchers: 20%, Senior researchers: 32%, Professors: 26%, Other (independent and emeritus researchers): 6%. Overall, approximately **36% of attendees were early-career scientists** (students,

PhD candidates, and postdoctoral researchers). The symposium provided these researchers with opportunities to present their work, receive feedback from leading experts, engage in scientific discussions, and establish new international collaborations.

Beyond its scientific impact, SC10 also contributed to public outreach and science communication. For the sparsely populated Åland Islands, hosting an international conference with more than 100 participants was a notable event. The symposium attracted attention from local media and was covered by regional radio and news outlets, helping raise public awareness of Space Climate and Space Weather research and highlighting the importance of international scientific collaboration.

The support provided by **E-SWAN** contributed to the successful realization of the symposium and strengthened its educational and outreach dimensions. E-SWAN was acknowledged as a supporting organization through the symposium website, conference materials, and event communications.

Overall, the 10th Space Climate Symposium successfully achieved its goals of advancing scientific exchange, fostering international collaboration, promoting public engagement with science, and supporting the professional development of the next generation of researchers in the fields of Space Climate and Space Weather.

The organizing committee sincerely thanks the E-SWAN Education and Outreach Committee for its support and for recognizing the value of this initiative.