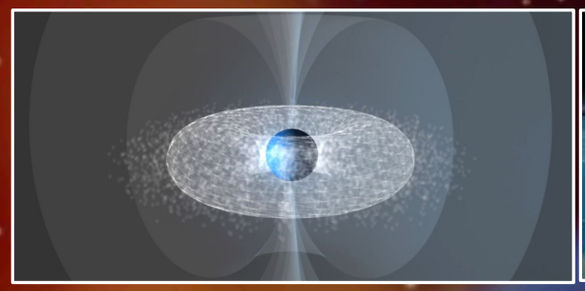
SOLAR-TERRESTRIAL CENTRE OF EXCELLENCE

2023 annual meeting



SOLAR-TERRESTRIAL CENTRE OF EXCELLENCE

Interaction between sun & earth systems

SUN-SPACE-
EARTH for
PROFESSIONALS

SUN-SPACE-
EARTH for
CITIZENS

SUN-SPACE-
EARTH for
SCIENTISTS

SUN-SPACE-
EARTH for
NATIONS

SOLAR-TERRESTRIAL CENTRE OF EXCELLENCE

For Whom

TOOLS

SERVICES

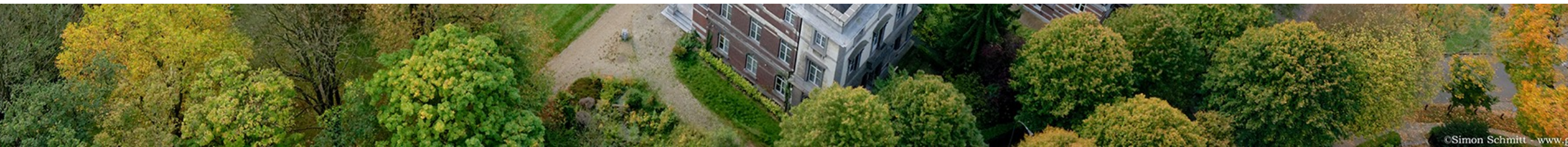
EDUCATION

SOLAR-TERRESTRIAL CENTRE OF EXCELLENCE

What

SWEC

Space Weather Education Center



STORE

COURSES

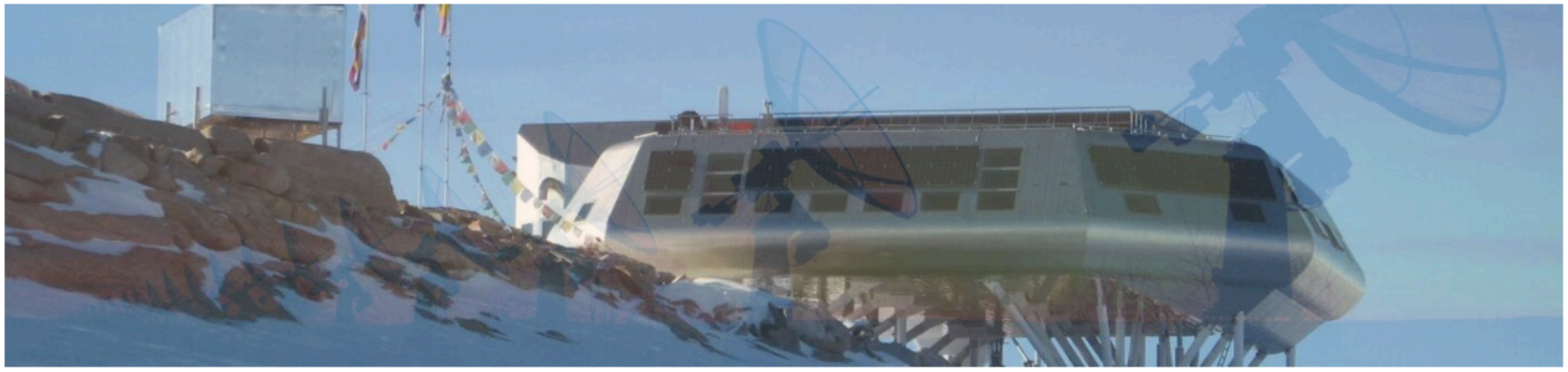
NEWS CHANNELS

ACTIVITIES

SOLAR-TERRESTRIAL CENTRE OF EXCELLENCE

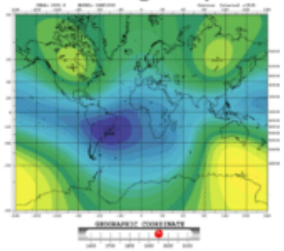
Dissemination methods

Solar-Terrestrial Centre of Excellence



Quo vadis, magnetic pole?

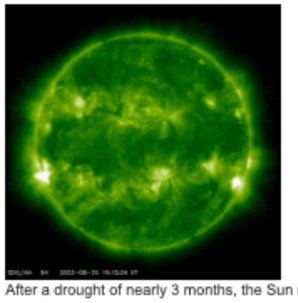
NEW



The persistent movement of the North magnetic pole towards Siberia may have some consequences on local space weather impacts such as aurora visibility and geomagnetically induced currents.

view

X-class flare



After a drought of nearly 3 months, the Sun unleashed an X-class flare on 20 June.

view

SILSO change of management

Due to a reshuffling of responsibilities, SILSO will from now on run under the single Directorship of Laure Lefèvre, and therefore any future questions related to the SILSO management or data should be addressed to Laure.Lefevre@oma.be. We take this opportunity to thank both Frédéric Clette and Laure Lefèvre for their dedication to the SILSO operations during many years.

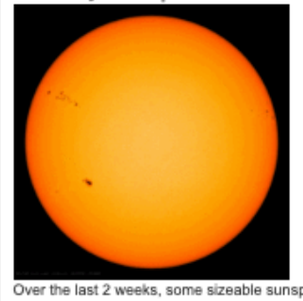
view

Steady as she goes...

The STCE's SC25 Tracking page has been updated. Solar activity continues its march towards solar cycle maximum which is currently expected in 2024.

view

Naked eye sunspots



Over the last 2 weeks, some sizeable sunspot groups were visible with the (protected) naked eye.

view

SPACE WEATHER WEEK

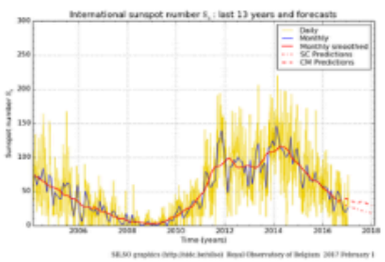
NEWSLETTER

UPCOMING

- STCE Annual meeting
  2023/06/29 - 10:00 to 14:00
- Public presentation: Een nog beter begrip van de Zon dankzij Solar Orbiter
  2023/06/30 - 20:00 to 23:00
- Lecture: The Sun
  2023/08/21 - 14:00 to 15:00
- Open Doors at the Humain Radioastronomy Station
  2023/09/09 - 00:00 to 2023/09/10 - 23:45
- Space Weather Introductory Course
  2023/09/18 - 08:45 to 2023/09/20 - 16:00

more

Fundamental Research



The STCE does Fundamental Research.

Submitted by KM on Mon, 2017/02/06 - 10:35

Read more

Public Outreach

The STCE does public outreach during the STCE Annual Meeting and the Open Doors of the Space Pole in Uccle.

One of the highlights of the Open Doors is always a visit to the Solar Dome. A small introductory presentation is first given in the corridor of the SIDC. Skilled observers and space weather forecasters explain in laymen terminology what sunspots are, how they are observed, why these observations are so important, and how solar eruptions affect us and our technology. Then, the small groups of 10-15 people are guided stairs towards the top of the solar dome. There, the various solar telescopes are shown and their specific applications are discussed. Weather permitting, the visitors can also make solar observations using a projected solar image from the white light solar telescope. During and after the visit, there is plenty of opportunity to ask questions to the guides.

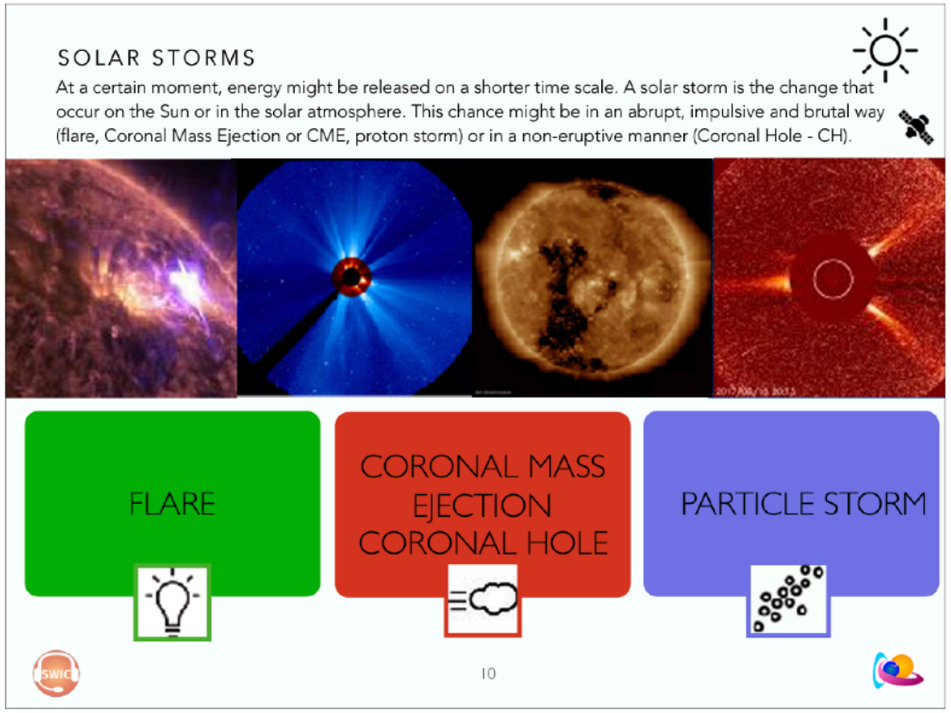
Submitted by KM on Mon, 2017/02/06 - 09:57

Read more

SWx INTRODUCTORY COURSE

TOPICS

Sun
Solar storms
Heliosphere
Ionosphere
Thermosphere
Magnetosphere
Instruments & sensors
Impacts
Tools



Change in energy output on the scale of minutes, hours, days.

Remote sensing (seeing) – in situ (taste and touch the ambient space)

Space weather is the change of energy that occur in the space environment.

A Flare is a sudden strong increase of the solar e.m. radiation. The light flash is localised on the solar surface.
SDO/AIA

A Coronal Mass Ejection is a plasma cloud that is ejected into space. You consider it as a cloud and not as a bunch of individual particles. It is superimposed on the background solar wind. You can see a CME as a complex magnetic bag with different magnetic layers with plasma in it that travels as a tsunami through space. It can go faster/as fast as/slower than the background solar wind. When it is faster, you will see a shock in front of the cloud. This is exactly the same as the shock you see in front of a speed boat.
A CME is visible as a white cloud in corona graphic images like the one on the slide. A coronagraph is a telescope that creates an artificial eclipse and makes pictures in the visible light of the region

Mon 14/03

09:00

morning coffee
Royal Observatory of Belgium - Directors Building 09:00 - 09:15

9,8,7, ignition, 6, 5, 4, prepare for take off, 3,2,1, 0 lift off *Petra Vanlommel*
Royal Observatory of Belgium - Directors Building 09:15 - 09:45

Introduction to Space Weather *Petra Vanlommel*

10:00

Royal Observatory of Belgium - Directors Building 09:45 - 10:30

Break
Royal Observatory of Belgium - Directors Building 10:30 - 10:45

Basic concepts *Elke D'Huys*

11:00

Royal Observatory of Belgium - Directors Building 10:45 - 11:30

Space Weather Briefing of the STCE SWx Service Centre
Royal Observatory of Belgium - Directors Building 11:30 - 11:45

Basic concepts *Elke D'Huys*
Royal Observatory of Belgium - Directors Building 11:45 - 12:15

12:00

Lunch

13:00

Royal Observatory of Belgium - Directors Building 12:15 - 13:15

Sensors overview *Jan Janssens*

Royal Observatory of Belgium - Directors Building 13:15 - 14:00

14:00

Visit - solar dome
Royal Observatory of Belgium - Directors Building 14:00 - 14:30

Drivers of Space Weather *Elke D'Huys*

15:00

Royal Observatory of Belgium - Directors Building 14:30 - 15:15

Break
Royal Observatory of Belgium - Directors Building 15:15 - 15:30

Drivers of Space Weather *Elke D'Huys*

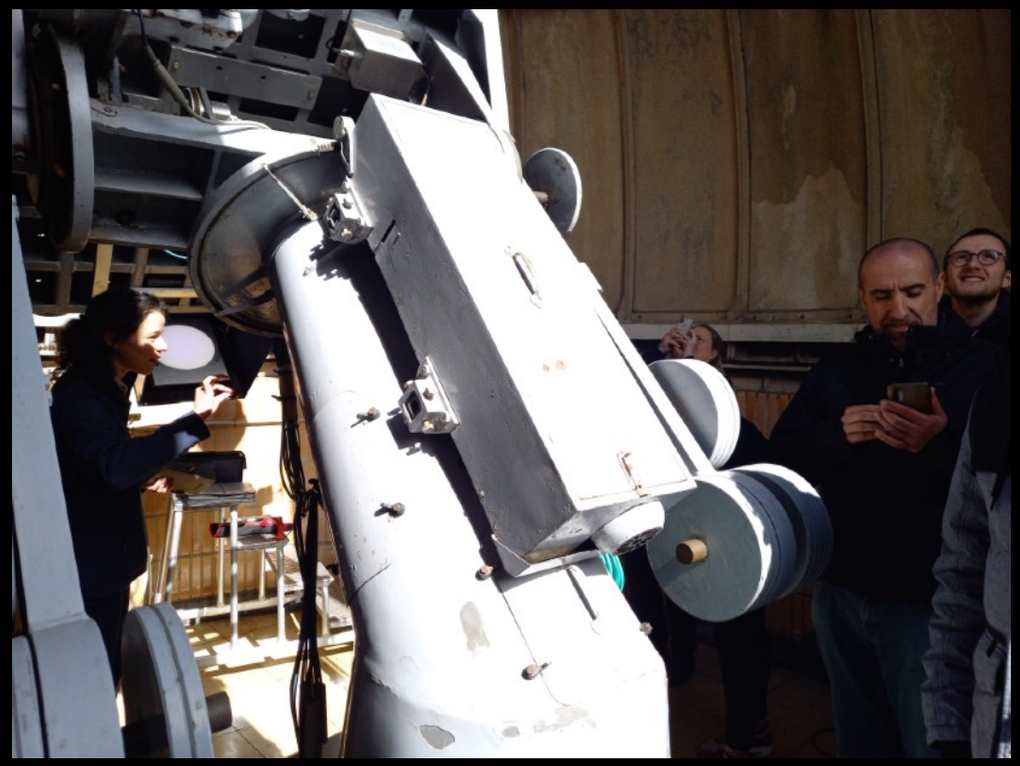
16:00

Royal Observatory of Belgium - Directors Building 15:30 - 16:15

Reflections on the day
Royal Observatory of Belgium - Directors Building 16:15 - 16:30

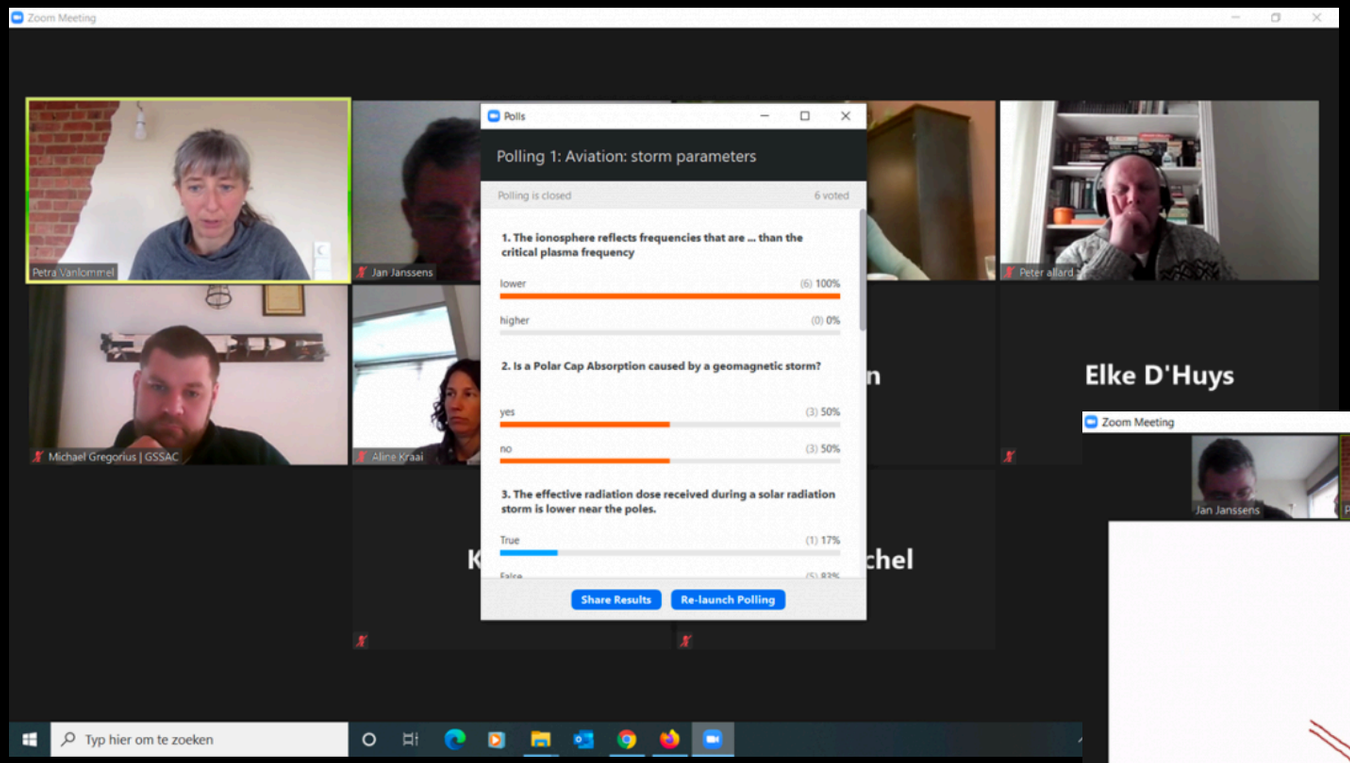
INTERACTIVE EXERCISES/

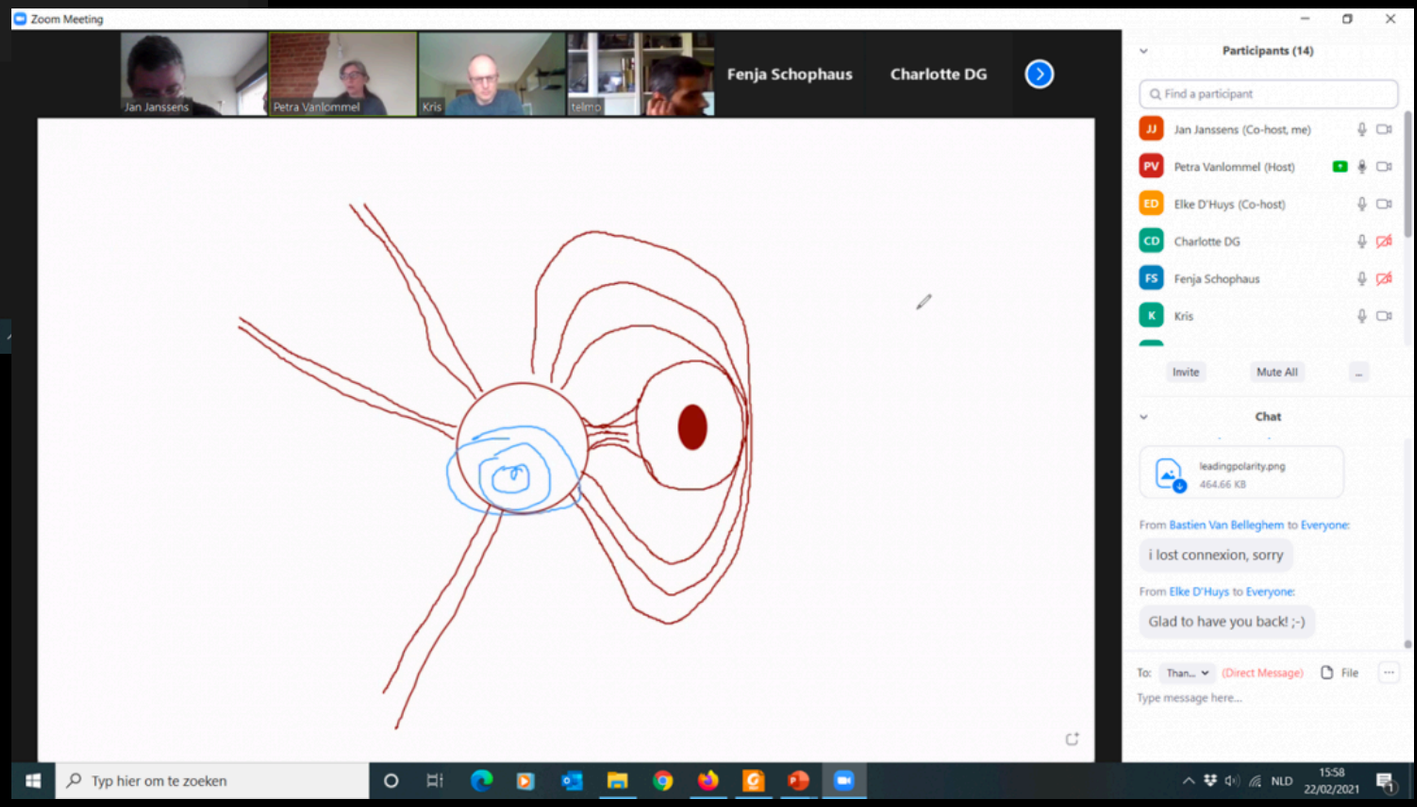
MEET & GREET



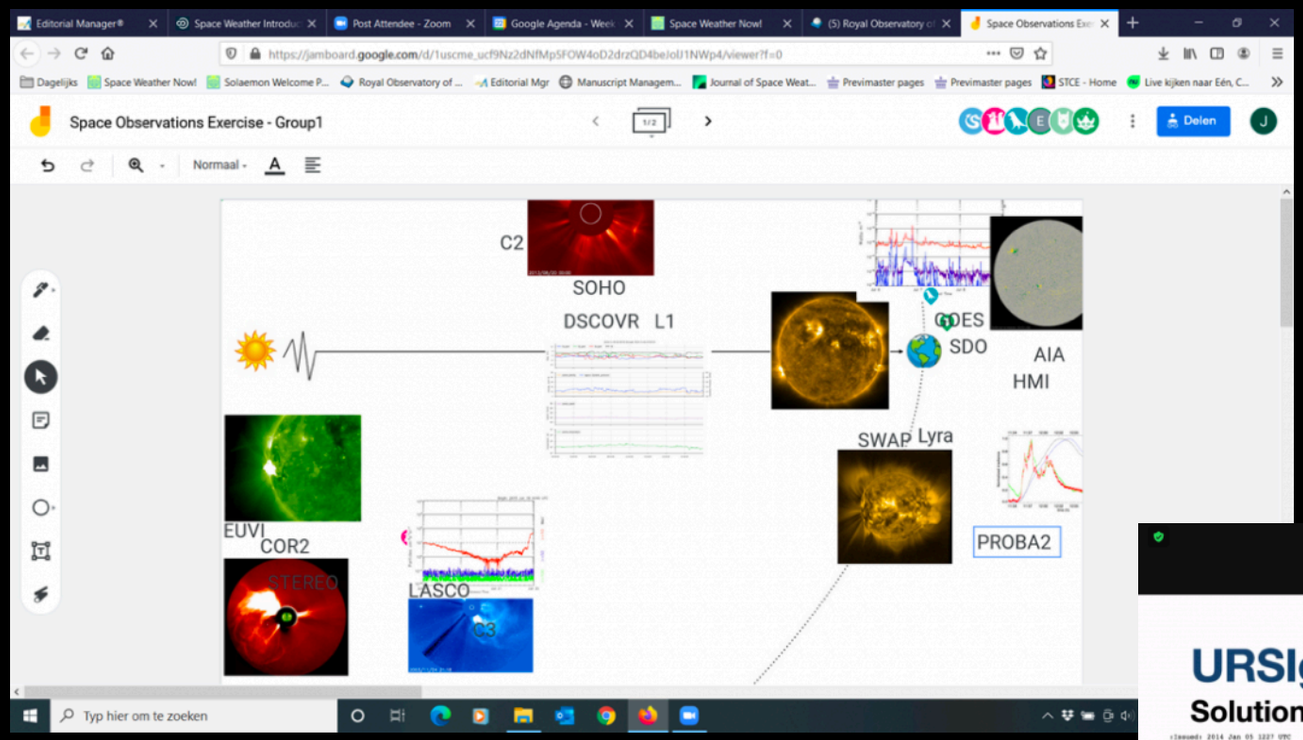
ONLINE EDITIONS

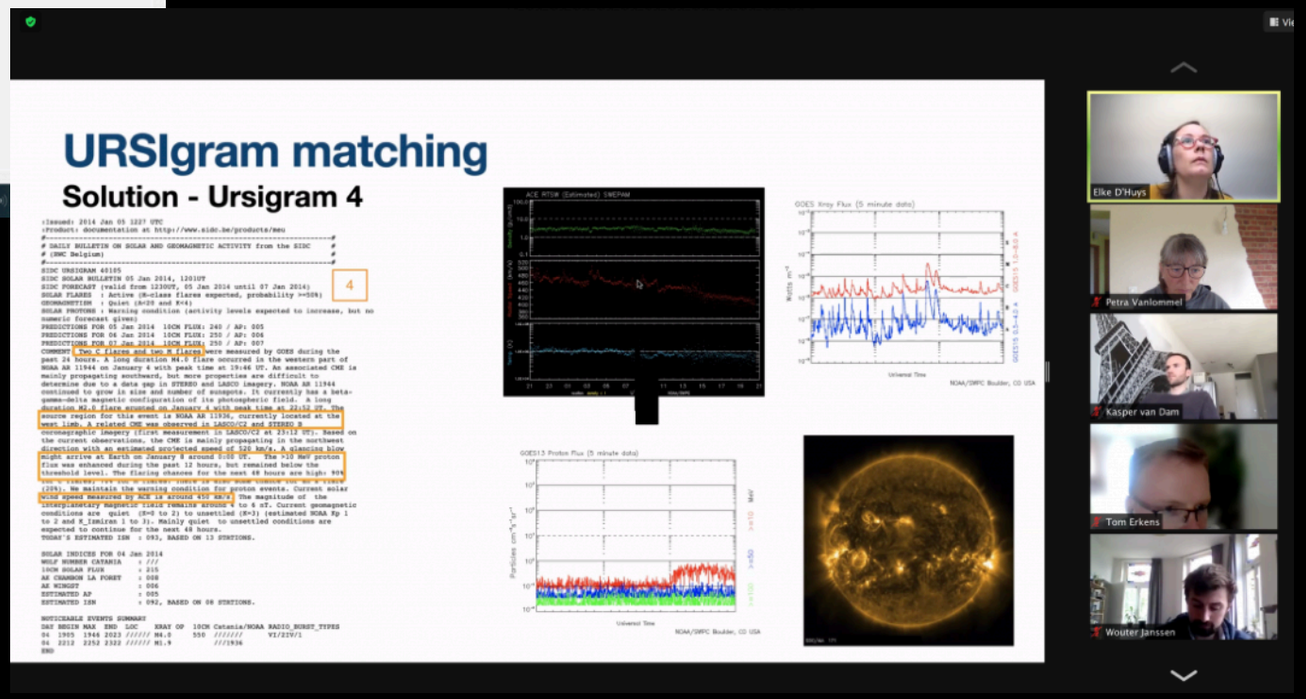
ONLINE TOOLS: ZOOM





ONLINE TOOLS: GOOGLE JAMBOARD





EVALUATION

Solar-Terrestrial Centre of Excellence

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SPACE WEATHER WEEK

NEWSLETTER

UPCOMING

- Workshop 'Electromagnetic radiation sensors'
  2022/04/22 - 09:30 to 15:00
- Public Lecture on Solar Corona in EUV at Urania (in Dutch)
  2022/04/26 - 20:00 to 22:00
- STCE at the Symposium on Space Educational Activities in Barcelona
  2022/04/27 - 00:00 to 2022/04/29 - 23:45
- Public Lecture on SolO/EUI at Astropolis (in Dutch)
  2022/04/28 - 19:00 to 21:00
- KU Leuven/ CmPA Seminar: Dynamical evolution and oscillation of highly magnetised compact

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SWx Introductory Course - Quiz

This is the SWIC quiz to test your Space Weather knowledge gained during the SWIC.

We serve 30 fast questions checking your top-of-your-head knowledge. You receive 1 point per correct answer.

You will also get 10 questions about ursigrams, gaining you 2 points per correct answer.

This is an open book test - use of www search engines and course material is allowed.

After 80 minutes, the quiz ends irrevocably.

Everybody gets a certificate depending on their score: Diamond (more than 45 points), Gold (41 to 45 points), Silver (34 to 40 points), Bronze (26 to 33 points) or participation (less than 25 points). The certificate will be sent to you personally by email in the week following the quiz.

Good luck!

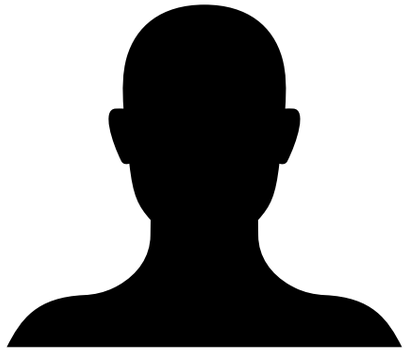
Continuous evaluation

The third day (Thursday), when we had sessions about the effect of space weather, was **hard**, it was a lot of information on one day. If it is possible maybe one of these

I found it very useful to have many **repetition** and **questions** during the different sessions in the course

I have to say, I am deeply impressed. Your **didactic** ability to pass on your vast **knowledge** to us trainees is admirable. I now understand much better than I did before the

I understand that the course was an introduction to the Space Weather and that you have to cover the generalities at the beginning . As I am not new to the discipline, I found the pace of the first two days to be **slow** for me.



What I liked about your course is that all the information was **spread out** over 4 days so that there is enough time to explain the theory. What I liked too were the **summaries** from time to time. It is also important to have some **exercises** to get busy with the stuff, then it is easier to remember things. Actually I can't name things for you to improve the course.

But in my opinion, you covered the most important aspects in the **lectures** and the rest could be found in all the **notes** on the slides. I also liked the **exercises**, which were important to understand how the theory is applied in practice.

TAILORED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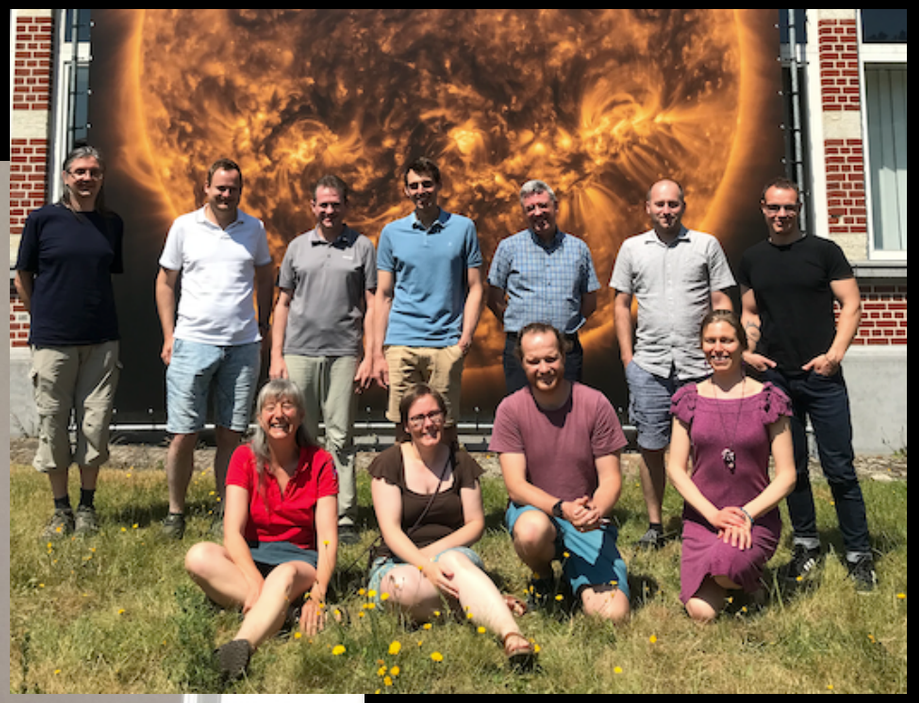
CUSTOMER SERVICE
GOOGLE IT
KUDELKA.
WHILE THE NEW SELF-HELP STRATEGY SAVED MONEY, IT LACKED THE PERSONAL TOUCH.

NEW COURSE
SWx impacts on the ionosphere
GNSS & HF

SWx impacts on the ionosphere
GNSS & HF



With your help