Europe’s leading space weather service centres offer a

Space Weather Course - SWeC

For businesses vulnerable to SW and newly founded SW centres

Sporadic and massive solar eruptions of very high-energy matter and radiation from the Sun can have a pronounced impact on businesses involving navigation, communication and transport of energy. In extreme cases, these eruptions pose a safety risk to human health. Periods of solar activity are generally referred to as solar storms, as part of the changing conditions in space called space weather.

Businesses possibly impacted by SW want to learn on this natural hazard and increase their resilience. Space Weather staff, like meteorologists, will need to meet certain competence levels. Competencies are a balanced combination of Knowledge, Skills and Behaviour (WMO-No.1205 Guide to Competency).

The Space Weather Course (SWeC) offers a ‘Space Weather Introductory Course’ covering the Sun, solar storms, heliosphere, ionosphere, magnetosphere, instruments and methods to observe solar activity, reading and interpreting STCE space weather forecasts. This course has been given already to future space weather advisory staff, both military and civilian.

The introductory course can be extended with modules and/or modified tailored to the needs and business of the participants. SWeC will be adapted to the level of the participants. An end user from the aviation or telecommunication sector has other needs than a space weather forecaster in a solar research centre.

The program focusses on gaining knowledge by fact-learning and training skills by easily accessible methods like games and quizzes. It includes a visit to the beating heart of our service centre and a ‘Meet & Greet’.

SWeC has the tools to evaluate the participants and can provide an examination certificate. This service is based upon the expertise gained through scientific research, involvement in space missions and space weather monitoring, and forecasting capabilities. The courses are given by qualified staff.

SWeC offers an online archive of course material and space weather info.
The SWeC concept and further detailing is dynamical and based on User feedback.
After ‘sales’ service is possible.

References:
SWeC for space weather operators, by FMI, May 2018.
SWeC for RNAF meteo operators, by STCE, RNAF, KNMI, June 2018, https://events.oma.be/indico/event/54/
SWeC for RNAF and KNMI meteo operators, by STCE, RNAF, KNMI, Nov 2018

If you are in need of dedicated training on how space weather impacts your applications, e.g. aviation, navigation sector, HF communication, etc. or you will run a newly established space weather centre, please contact us:
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SWeC is a partnership of