WG4 on Space Weather

Monday and Tuesday, 14:00-18:00, in *salle de reunion* (1st floor)

Conveners: Christophe Marqué (Royal Observatory of Belgium) and Thierry Dudok de Wit (University of Orléans)

We plan to have a series of oral presentations, with ample time for interactions, and at the end of each theme an open discussion to address open issues and future plans. For each presentation, we foresee approximately 15' presentation time + questions. There will be no posters.

Monday 14:00-18:00

Variability: origins, short- and long-term (moderators C. Marqué and T. Dudok de Wit)

- T. Dudok de Wit et al., *Synoptic observations at centimetric wavelengths for a better description of solar forcing of the upper atmosphere*
- C. Salas Matamoros et al., *Microwave emission as a proxy of CME speed in ICME arrival time predictions*
- K. Iawi et al., *Observation of the Solar Chromosphere at 2.6 mm*
- C. Alissandrakis et al., *Structure and polarization of large spots with RATAN-600 and the NoRH*

Automated detection of solar radio bursts (moderator T. Dudok de Wit)

- H. Salmane, *An automated solar radio burst detection method to extract major bursts (type II, III and IV) from dynamic spectra*
- G. Nita et al., *Automatic Detection and Measurement of Spectral Fine Structures Using Higher Order Statistical Estimators*

Open discussion

Tuesday 14:00-18:00

Space weather effects (moderator C. Marqué)

- P. Zucca et al., *Microwave observations for forecasting energetic particles from the Sun*
- D. Gary et al., *Space weather effects or radio bursts*
- M. Pick et al., *Statistical analysis of solar events associated to SSCs over one year of solar maximum during cycle 23*
- C. Marqué et al., *The impact of the November 4th 2015 event on air traffic radars*
- Kumar Singh et al., *Investigation of sub-ionospheric VLF signal anomalies leading to geomagnetic storm using artificial neural network and statistical approach*

Open discussion