Dear colleagues,

We invite abstract submissions to our session at EGU 2018 titled: “The Use of Observations and Models to Improve Space Weather Forecasting Capabilities in the Heliosphere”. The conference will be held on 8 - 13th April in Vienna, Austria.

Details of the conference and our session, as well as others, can be found here:
http://meetingorganizer.copernicus.org/EGU2018/session/27199
<http://meetingorganizer.copernicus.org/EGU2018/session/27199>

Session Abstract:

Severe space weather events can significantly impact human technology on the ground and in near-Earth space. Huge eruptions of plasma and magnetic field, known as coronal mass ejections (CMEs), often co-occur with solar flares and can cause problems for a wide variety of industries, such as satellites, radio communications and electricity networks. Solar flares and CMEs also accelerate solar energetic particles (SEPs), which in turn can harm electronics and be a significant radiation hazard to humans outside of the protective shield of the atmosphere. There is significant interest from end users in government and industry to improve the current forecasting methods of these events to mitigate against such risks. Spacecraft observations can be used to forecast when a CME might erupt, track the CME through the heliosphere, to predict the solar wind from another location in space, or to directly probe the different structures and their properties via in situ measurements. Alternatively, models can be developed to simulate solar magnetic fields, to predict where a CME might pass through the heliosphere, and to model its shape and its influence on the magnetosphere. We invite abstracts on both observations and modelling of space weather hazards, including CMEs, the solar wind, co-rotating interaction regions, solar flares, and SEPs.

Note that the deadline for abstract submission is 13:00 CET on the 10th January 2018, and the deadline for young scientist support is 1st December 2017.

Best regards,
Miho Janvier, Sophie Murray, Rui Pinto & Simon Thomas."