SWF

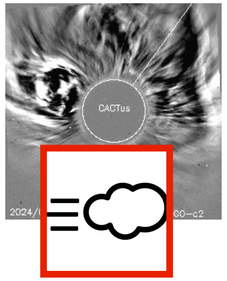
RAD

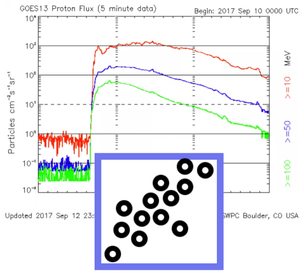
PCA

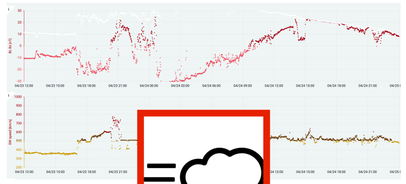
AA

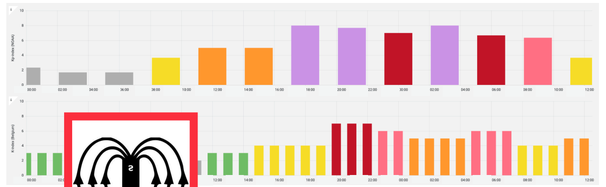
SCINT
VTEC

PSD









L1

<u>E.M. waves:</u> increased X-ray flux leads to ionisation of the Earth's atmosphere. The increase is due to a flare on the Sun.

<u>Solar wind</u>: A Coronal Mass Ejection (CME) is seen in the solar atmosphere. A CME moves with the solar wind.

<u>Energetic Particles</u>: solar energetic protons are detected near Earth. Protons can ionise atoms and create a particle shower in the Earth's atmosphere. A solar flare and/or a CME can cause a particle event.

<u>Solar wind:</u> An Interplanetary Coronal Mass Ejection is detected 1 hour upstream of Earth. An ICME moves with the solar wind.

<u>Geomagnetic field</u>: disturbances of the Earth magnetic field (MF) leads to changes in the electron content or flows of electrons in the Earth's environment. The disturbances are caused by the solar wind.