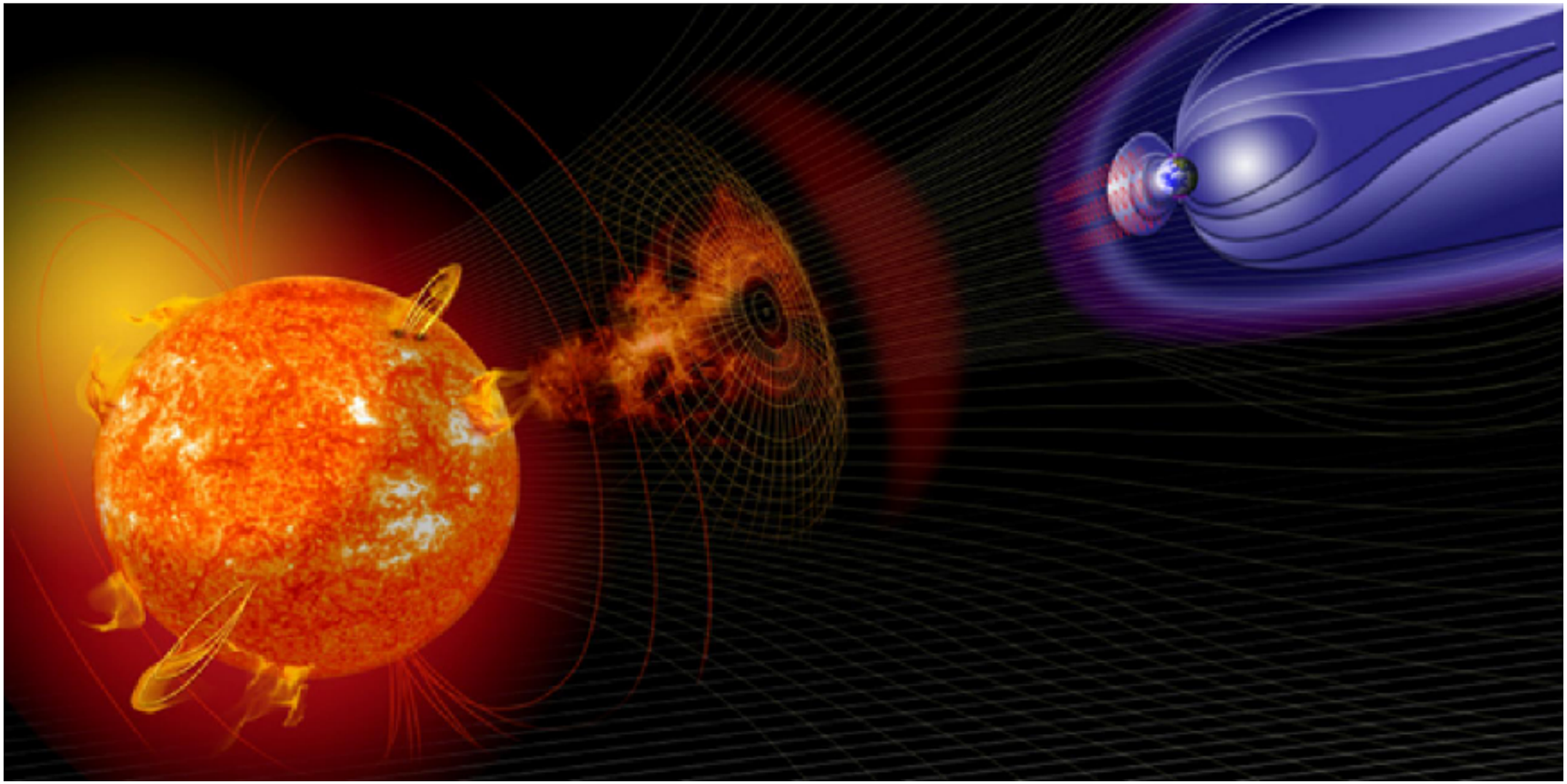


SPACE WEATHER

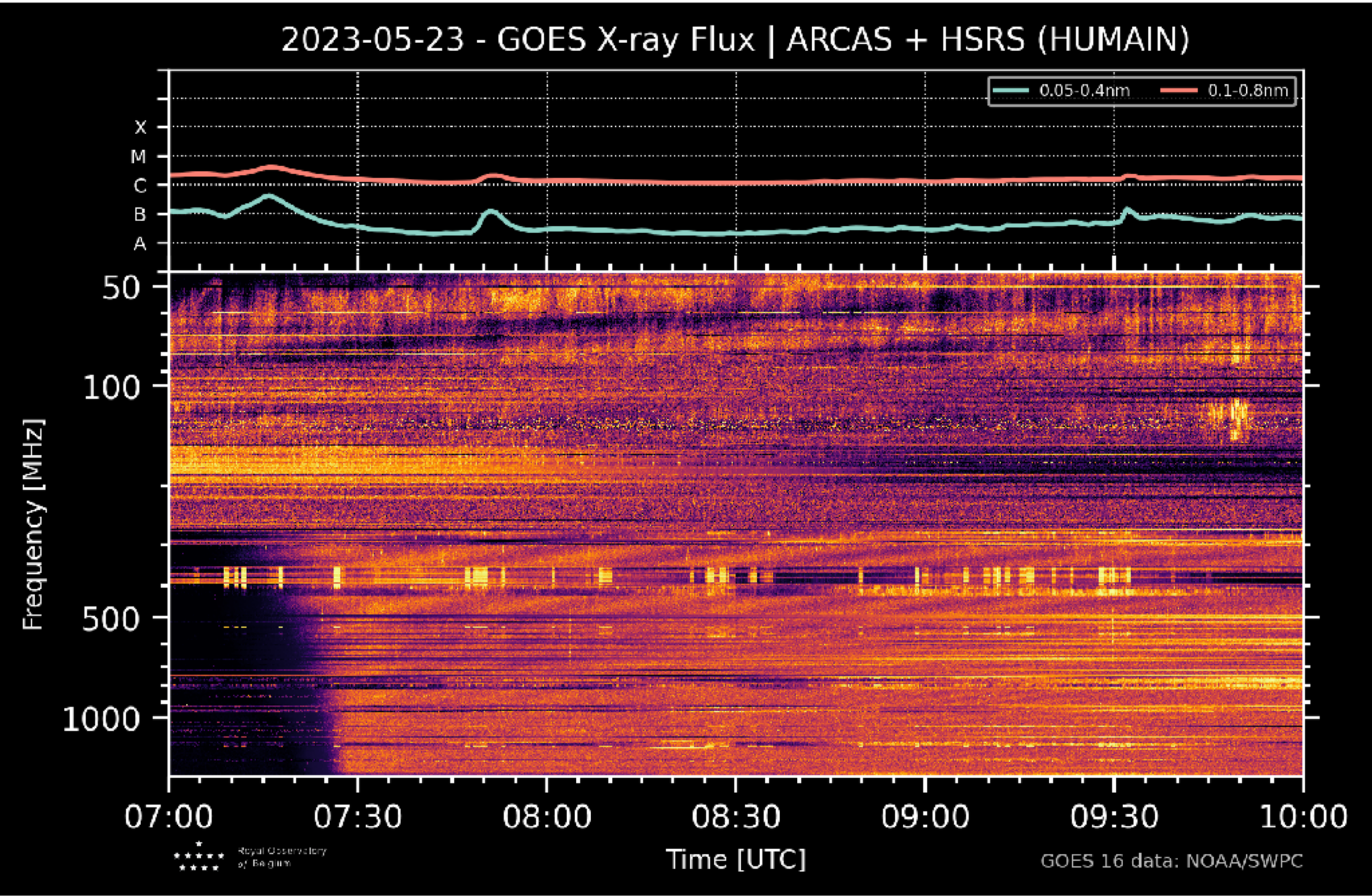
Solar Radio Bursts

Petra Vanlommel

Observations in the e.m. spectrum

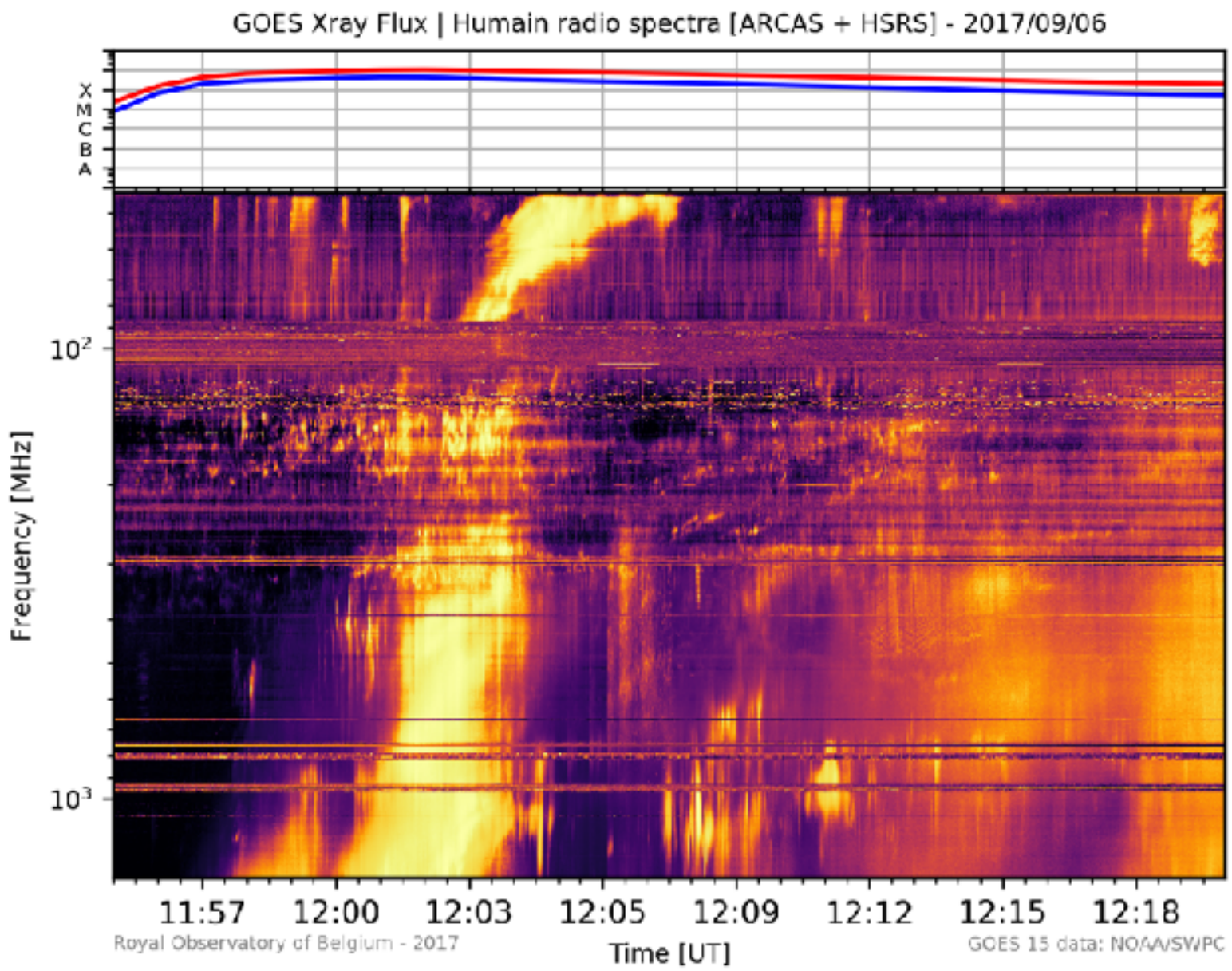
- 10 cm flux —> index for solar activity, similar like the sunspot index
- Solar Radio Bursts

RADIO SPECTRUM - SPECTROGRAM



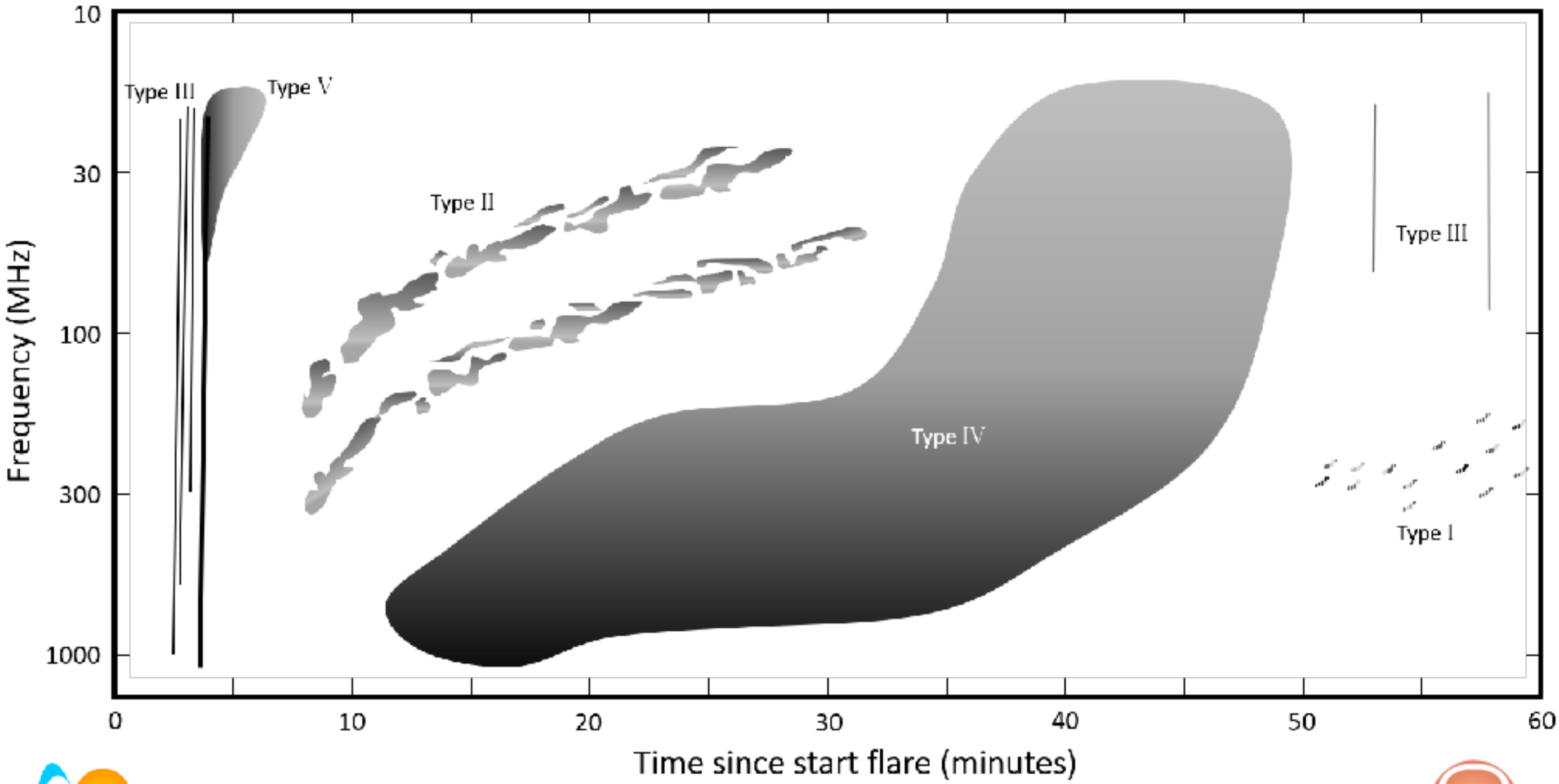
SOLAR RADIO BURSTS

SRB are produced by electrons energised by solar eruptive events, like flares, coronal mass ejections. Their radial signature - how it looks like in a spectrogram - tells something about the fate of these electrons.



SOLAR RADIO BURSTS

SRB are produced by energetic electrons accelerated by solar eruptive events, like flares, coronal mass ejections. Their radial signature - how it looks like in a spectrogram - tells something about the fate of these electrons.



Can a Solar Radio Burst impact the ionosphere?

CONTRARY TO SOLAR RADIO BURSTS

Noise increase - the ionosphere is not impacted but the signal itself. The noise of the Sun is too loud, the GNNS receiver can't hear the satellite signal clear enough. Or the radar interprets the radio waves coming from the Sun as being a plane.