

## AURORA ON MARS

**O. Witasse**, *European Space Agency, ESTEC, The Netherlands (owitasse@rssd.esa.int)*, **F. Leblanc**, *LATMOS, Guyancourt, France*, **R. Ligi**, *European Space Agency, ESTEC, The Netherlands*, **P.-L. Blelly**, *CESR, Toulouse, France* . **F. Montmessin**, *LATMOS, Guyancourt, France*

Auroras have been observed on Mars by the Mars Express spacecraft since 2004, well correlated with the magnetic crustal anomalies. For most of these events, coordinated observations between the SPICAM UV spectrometer, the Marsis radar, and the ASPERA electron spectrometer are available. This allows us to better characterize the processes at work, by having constraints on the ultraviolet emissions, the total electron content (TEC) and the precipitating suprathermal electrons. We explore coincidences and correlations between these observables, and use a numerical model to reproduce the different signatures.