

ELF-VLF Emissions Registered by DEMETER Satellite in the Vicinity of the Sprite
observed at Sniezka

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On the night of July 20, 2007 two sprites were recorded at the meteorological observatory situated on top of Sniezka Mountain in south-west Poland (50 44 09 N, 15 44 21 E, 1603 m). The first sprite was recorded around 20:10:08 UTC, the second one at 00:18:45 UTC. The DEMETER satellite was located at an altitude of 650km and in the distance of around 500 km to the site of the first event. Instruments were switched to burst mode, meaning that the wave form was registered. In our presentation we will give the results of the analysis of the emissions in the ELF-VLF range performed by the onboard analyzer together with wavelet analysis of the wave form of the electric field. The presentation of these measurements will be supported by registrations of the particles in the broad energy range.