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11-P-006 AIR-IONS, OZONE AND SOME OTHER ATMOSPHERIC MEASURMENTS DURING THE PARTIAL SOLAR ECLIPSE AT BELGRADE, 29 MARCH 2006

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Some of the atmospheric parameters were observed and measured during the recent partial (60 %) solar eclipse at Belgrade. A solar eclipse is period when the incident solar radiation is abruptly attenuated for a few hours. Response of the atmosphere is obvious and measurable. To investigate these changes we measured: temperature (T), relative humidity (RH), negative (n⁻) and positive (n⁺) small air-ion concentration, UV radiation, ozone (O₃), wind velocity (v) and cloudiness. The measurements were done at the day of the eclipse and day after, due to comparison and analysis. The results are compared with similar measurements during the partial solar eclipse (97.7 %) at the same place, 11 August 1999, and will be presented on the conference. Despite cloudy weather we found similar correlations between numbered parameters and also changes in T, RH and wind, which are consistent with theoretical predictions.

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