



## **Surface ozone concentrations on the mountain stations in Slovakia**

### **1 M. Kremler**

Dept. of Astronomy, Physics of the Earth and Meteorology, Comenius University, Bratislava,  
Slovak Republic (Kremler@fmph.uniba.sk / Phone: +421 2 60295457)

The continuous surface ozone monitoring in Slovakia started in 1992 when the Slovak Hydrometeorological Institute (SHMI) established a real time air pollution monitoring system of the Slovak Republic. Data from six mountain station have been analysed. Four of them are located in the High Tatras region. The station altitudes are from 694 to 2635 m. Annual averages of ozone concentrations and other statistical characteristics have been calculated. The annual averages range from 25,6 to 62,5 ppb. The mean daily and annual courses of surface ozone concentrations on these stations are presented in this paper. The shape of course curves and occurrence of maxima and minima on individual stations are described in detail. Daily and annual course amplitudes are calculated and described. Also vertical profiles of the daily ozone averages for individual years and months are presented in the paper. Profiles from eight 3-hour intervals during the day have been calculated too.