

SLEDOVANIE ZÁVISLOSTI KONCENTRÁCIE OZÓNU OD METEOROLOGICKÝCH PODMIENOK

Marián SCHWARZ – Vladimír LALÍK – Miroslav VANEK
– Katarína FARBIAKOVÁ

Katedra environmentálneho inžinierstva, Fakulta ekológie a environmentalistiky, Technická univerzita Zvolen, T. G. Masaryka 24, 960 53 Zvolen, Slovenská republika, e-mail: schwarz@vsld.tuzvo.sk, vladimir.lalik@gmail.com, vanek.miroslav@gmail.com, katarina.gasparova@gmail.com

ABSTRACT

Schwarz M., Lalík V., Vanek M., Farbiaková K.: **The Follow-up of Ozone Concentration Dependence on Meteorological Conditions**

The concentrations of ground-level (tropospheric) ozone were measured by automatic ozone analyzer in agreement with the ISO Standard 13964: 1998. Ten minutes ozone concentrations were determined and then re-counted to 1 hour average values, which were via regression analysis with corresponding temperature and relative humidity evaluated in cold and warm seasons of the year. The ozone concentration dependence on temperature showed positive correlation whereas dependence on relative humidity was negative. Coefficients of determination were very small in all monitored cases with more distinctive difference by temperature in warm season.

Key words: tropospheric ozone concentration, meteorological conditions