

## **STORM ACTIVITY OVER BALKAN REGION DURING MAY 2009**

ALEKSANDRA KOLARSKI

*Technical Faculty "Mihajlo Pupin", University of Novi Sad, Zrenjanin 2300  
0, Serbia*

E-mail: aleksandrakolarski@gmail.com

Intense storm activity over Balkans ( $40^{\circ}/48^{\circ}$  N,  $12^{\circ}/23^{\circ}$  E) at the end of May 2009 was analysed. Surveying was carried out by integration of satellite and ground-based observations. Very Low Frequency (VLF) signals (3-30 kHz) recorded by Absolute Phase and Amplitude Logger station in Belgrade ( $44.85^{\circ}$  N,  $20.38^{\circ}$  E), video recordings of sprite events from ITALIAN METEOR and TLE NETWORK and lightning stroke data from Cooperation for Lightning Detection network were inspected for possible relationship. Different type and magnitude of perturbations on monitored VLF signals were observed, even originated from same lightning discharge. Correspondence between all three examined phenomena was found, in some of analyzed cases.

### **Key words**

Ionosphere–atmosphere interactions, Lightning, VLF perturbations