



## **Influence of the solar activity on the length of day variations**

A. Barczak (1), **T. B. Botchorishvili** (1), W. Kosek (2), A. Wysokinski (3)

(1) Institute of Computer Science, University of Podlasie, Siedlce 08-110, Poland, (2) Space Research Centre, PAS, 00-716 Warsaw, POLAND, (3) Institute of Mathematics, University of Podlasie, Siedlce 08-110, Poland (tengo@ap.siedlce.pl / Phone: +48-25-6431167)

In this paper the correlation of solar activity with length of day (LOD) fluctuations is presented. It is shown that the amplitude of longer period fluctuations in LOD changed during solar activity cycle. Many factors acting on LOD fluctuations have very complex feature and studying them is the subject of our investigations. The study of correlations between fluctuations of LOD and solar activity becomes more important while explaining the source of LOD variations.