Geophysical Research Abstracts,
Vol. 10, EGU2008-A-01453, 2008
SRef-ID: 1607-7962/gra/EGU2008-A-01453
EGU General Assembly 2008

Areal distribution of heavy very short rainfalls in the Czech Republic

V. Bliznak, Z. Sokol

Institute of Atmospheric Physics, Czech republic (Vojta.bliznak@seznam.cz / Phone: +420777848364)

The study is focussed on areal analysis of the distribution of heavy very short term rainfalls in the Czech Republic with a high horizontal resolution. The distribution of the rainfalls is studied in dependence on the altitude and the orography for the warm seasons of the years (April to September) 2002-2007. Rainfall data with a horizontal resolution of 1 km are derived from measured reflectivity by two radars of the Czech weather radar network CZRAD, which well cover the area of the Czech Republic, and 1-h, 2-h and 3-h rainfall amounts will be studied. The radar-derived rainfalls are corrected by gauge measurements. The preliminary results which included processing of data from the years 2002, 2004 and 2005 have shown a small increase of maximum rainfalls with an elevation from lowlands till the altitudes of 600 – 800 m a. s. l. For higher elevations a descent of maximum rainfall amounts has been observed.