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Observations of effects of earthquake swarms in the Czech microbarograph network

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The westernmost part of the Czech Republic is a region of earthquake swarms, where earthquakes usually occur in series of seismic disturbances. One of the sensors of the Czech microbarograph network- Novy Kostel- is located in this seismic active region and provides an opportunity to observe co-seismic effects on the atmosphere close to or in the epicentral zone. It was proved in our previous study that these effects were caused by infrasound, not by seismic shaking of the instrument.

Recently, increased seismic activity in the region occurred in August and September 2011. We analysed microbarograph records of 25 August 2011. The response to the individual seismic disturbances differs in the microbarograph records. We therefore studied the characteristics of the seismic disturbances in more detail, e.g. the location of the epicentre, amplitude of the vertical and horizontal components of the disturbances, in order to find origin of different microbarograph response.