



Seasonal dependence of noise level in the Czech microbarograph network

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The microbarograph network in the Czech Republic was set in operation in 2008 – 2010. At present, it consists of three sites at Novy Kostel, Pruhonice, and Panska Ves observatories. Novy Kostel and Pruhonice sites are equipped with one microbarograph. At Panska Ves, the second microbarograph was set in operation in spring 2010; third microbarograph was ready for installation at the end of 2010. We compute reference spectra for each microbarograph to obtain the mean noise levels at the sites. We study the frequency interval 0.003 – 10 Hz. The reference spectrum is estimated for each month. The daily measurements are divided in 20 min overlapping time intervals from 00-24 hour and the Fourier spectrum is computed for each interval. The reference spectrum is then estimated as the median, upper and lower quartile over the month in corresponding time intervals. Here, we present the results for months January, April, July, and October 2010. We compare the noise levels at individual microbarograph sites and study the seasonal dependence and the diurnal course of the noise levels.