

Name of research institute or organization:

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**Institut für Umweltgeowissenschaften, Universität Basel**

Title of project:

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Measurement of  $^{222}\text{Rn}$  for atmospheric tracer applications

Project leader and team:

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Dr. Franz Conen, project leader  
Dr. Wlodek Zahorowski, international collaborator  
Yu Xia, PhD student  
Lukas Zimmermann, technician

Project description:

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The two-filter-type detector for  $^{222}\text{Rn}$  installed in the cave next to the station in May 2008 was moved end of March 2009 for a field campaign to the station K-Puszt in Hungary and was re-installed at the Jungfrauoch by end of November 2009. End of October 2009 it was complemented by a second detector of the same type installed on the roof of the Physics institute in Bern. By this set-up, we hope to learn more about the movement of air masses from the planetary boundary layer in the lowland to high alpine regions. Data from both detectors are freely accessible through <http://radon.unibas.ch/>.

When re-installing the detector at Jungfrauoch, we also collected aerosol samples with liquid impingers to see whether we would be able to determine the expected low density of bacterial cells in air with our instrumentation. The samples are still being analysed.

Key words:

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Radon, atmospheric transport, greenhouse gases, long-range pollution events, aerobiology

Internet data bases:

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<http://radon.unibas.ch/>

Collaborating partners/networks:

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Dr. Stefan Reimann, Empa  
Dr. Wlodek Zahorowski, ANSTO

Address:

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Institut für Umweltgeowissenschaften  
Universität Basel  
Bernoullistr. 30  
4056 Basel

Contacts:

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Franz Conen  
Tel.: +41 61 267 0481  
Fax: +41 61 267 0479  
e-mail: [franz.conen@unibas.ch](mailto:franz.conen@unibas.ch)  
URL: <http://pages.unibas.ch/environment/>

