

Name of research institute or organization:

**Institute for Isotope Geology and Mineral Resources, Swiss Federal  
Institute of Technology**

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Title of project:

Production systematics of in situ produced cosmogenic nuclides on the Earth's surface

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Project leader and team:

Peter Oberholzer, project leader  
Dr. Heinrich Baur  
Dr Jörg Schäfer  
Prof. Rainer Wieler

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Project description:

Surface exposure dating using in situ produced cosmogenic nuclides are an important tool for absolute dating of various geomorphic processes. A major source of uncertainty are the production rates and their variation with geomagnetic latitude and elevation. To improve production rates and their scaling, we have exposed artificial targets at various latitudes and elevations for up to two years. By measuring the number of cosmogenic nuclides produced in this timespan, we will be able to determine production rates accurately.

Key words

cosmogenic nuclides, production rate determination, production rate scaling

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Collaborating partners/networks:

Dr. Jörg Schäfer, Lamont-Doherty Earth Observatory, Columbia University, New York

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Scientific publications and public outreach 2001:

(none this year; measurements have not been completed yet)

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