

Name of research institute or organization:

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**Institut für Umweltphysik, Ruprecht-Karls-Universität, Heidelberg**

Title of project:

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Spectroscopic measurements of direct moon light

Project leader and team:

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Prof. Dr. Klaus Pfeilsticker

Project description:

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During 10 nights in 2008 (March 17 to 27<sup>th</sup>, 2008) the atmospheric group at the Institut für Umweltphysik of the Universität Heidelberg, Germany conducted spectroscopic measurements of direct moon light at the Jungfraujoch station. Major target molecules were stratospheric O<sub>3</sub>, NO<sub>2</sub>, and NO<sub>3</sub> and tropospheric H<sub>2</sub>O.

The measurements at the Jungfraujoch station were corroborated by similar measurements at Teresina/North Eastern Brazil. Funding came through the EU SCOUT-O<sub>3</sub> project (505390-GOCE-CT-2004). Due to extremely bad weather and persistent cloud cover during stay, the measurements only succeeded for short time intervals (hours) however.

Details of the thereby gained results can be found in the diploma thesis of Christian Karl (Universität Heidelberg, 2008).

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